

PART B - FEE(S) TRANSMITTAL

Complete and send this form, together with applicable fee(s), by mail or fax, or via EFS-Web.

By mail, send to: Mail Stop ISSUE FEE
Commissioner for Patents
P.O. Box 1450
Alexandria, Virginia 22313-1450

By fax, send to: (571)-273-2885

INSTRUCTIONS: This form should be used for transmitting the ISSUE FEE and PUBLICATION FEE (if required). Blocks 1 through 5 should be completed where appropriate. All further correspondence including the Patent, advance orders and notification of maintenance fees will be mailed to the current correspondence address as indicated unless corrected below or directed otherwise in Block 1, by (a) specifying a new correspondence address; and/or (b) indicating a separate "FEE ADDRESS" for maintenance fee notifications.

CURRENT CORRESPONDENCE ADDRESS (Note: Use Block 1 for any change of address)

158266 7590 11/08/2019
Condo Roccia Koptiw LLP
1800 JFK Boulevard
Suite 1700
Philadelphia, PA 19103

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Certificate of Mailing or Transmission

I hereby certify that this Fee(s) Transmittal is being deposited with the United States Postal Service with sufficient postage for first class mail in an envelope addressed to the Mail Stop ISSUE FEE address above, or being transmitted to the USPTO via EFS-Web or by facsimile to (571) 273-2885, on the date below.

(Typed or printed name)
(Signature)
(Date)

APPLICATION NO.	FILING DATE	FIRST NAMED INVENTOR	ATTORNEY DOCKET NO.	CONFIRMATION NO.
15/910,734	03/02/2018	Robert B. Hoy	LCOM_ISO_US02	2365

TITLE OF INVENTION: INTERNET ISOLATION FOR AVOIDING INTERNET SECURITY THREATS

APPLN. TYPE	ENTITY STATUS	ISSUE FEE DUE	PUBLICATION FEE DUE	PREV. PAID ISSUE FEE	TOTAL FEE(S) DUE	DATE DUE
nonprovisional	UNDISCOUNTED	\$1000	\$0.00	\$0.00	\$1000	02/10/2020

EXAMINER	ART UNIT	CLASS-SUBCLASS
TRUONG, THANHNGA B	2498	726-015000

1. Change of correspondence address or indication of "Fee Address" (37 CFR 1.363).

☐ Change of correspondence address (or Change of Correspondence Address form PTO/SB/122) attached.

☐ "Fee Address" indication (or "Fee Address" Indication form PTO/SB/47; Rev 03-09 or more recent) attached. Use of a Customer Number is required.

2. For printing on the patent front page, list

(1) The names of up to 3 registered patent attorneys or agents OR, alternatively,

1 _____

(2) The name of a single firm (having as a member a registered attorney or agent) and the names of up to 2 registered patent attorneys or agents. If no name is listed, no name will be printed.

2 _____

3 _____

3. ASSIGNEE NAME AND RESIDENCE DATA TO BE PRINTED ON THE PATENT (print or type)

PLEASE NOTE: Unless an assignee is identified below, no assignee data will appear on the patent. If an assignee is identified below, the document must have been previously recorded, or filed for recordation, as set forth in 37 CFR 3.11 and 37 CFR 3.81(a). Completion of this form is NOT a substitute for filing an assignment.

(A) NAME OF ASSIGNEE

(B) RESIDENCE: (CITY and STATE OR COUNTRY)

Please check the appropriate assignee category or categories (will not be printed on the patent): ☐ Individual ☐ Corporation or other private group entity ☐ Government

4a. Fees submitted: ☐ Issue Fee ☐ Publication Fee (if required) ☐ Advance Order - # of Copies _____

4b. Method of Payment: (Please first reapply any previously paid fee shown above)

☐ Electronic Payment via EFS-Web ☐ Enclosed check ☐ Non-electronic payment by credit card (Attach form PTO-2038)

☐ The Director is hereby authorized to charge the required fee(s), any deficiency, or credit any overpayment to Deposit Account No. _____

5. Change in Entity Status (from status indicated above)

☐ Applicant certifying micro entity status. See 37 CFR 1.29

☐ Applicant asserting small entity status. See 37 CFR 1.27

☐ Applicant changing to regular undiscounted fee status.

NOTE: Absent a valid certification of Micro Entity Status (see forms PTO/SB/15A and 15B), issue fee payment in the micro entity amount will not be accepted at the risk of application abandonment.

NOTE: If the application was previously under micro entity status, checking this box will be taken to be a notification of loss of entitlement to micro entity status.

NOTE: Checking this box will be taken to be a notification of loss of entitlement to small or micro entity status, as applicable.

NOTE: This form must be signed in accordance with 37 CFR 1.31 and 1.33. See 37 CFR 1.4 for signature requirements and certifications.

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Typed or printed name _____ Registration No. _____



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APPLICATION NO.	FILING DATE	FIRST NAMED INVENTOR	ATTORNEY DOCKET NO.	CONFIRMATION NO.
15/910,734	03/02/2018	Robert B. Hoy	LCOM_ISO_US02	2365
EXAMINER				
TRUONG, THANHNGA B				
ART UNIT			PAPER NUMBER	
2498				
DATE MAILED: 11/08/2019				

Determination of Patent Term Adjustment under 35 U.S.C. 154 (b) (Applications filed on or after May 29, 2000)

The Office has discontinued providing a Patent Term Adjustment (PTA) calculation with the Notice of Allowance.

Section 1(h)(2) of the AIA Technical Corrections Act amended 35 U.S.C. 154(b)(3)(B)(i) to eliminate the requirement that the Office provide a patent term adjustment determination with the notice of allowance. See Revisions to Patent Term Adjustment, 78 Fed. Reg. 19416, 19417 (Apr. 1, 2013). Therefore, the Office is no longer providing an initial patent term adjustment determination with the notice of allowance. The Office will continue to provide a patent term adjustment determination with the Issue Notification Letter that is mailed to applicant approximately three weeks prior to the issue date of the patent, and will include the patent term adjustment on the patent. Any request for reconsideration of the patent term adjustment determination (or reinstatement of patent term adjustment) should follow the process outlined in 37 CFR 1.705.

Any questions regarding the Patent Term Extension or Adjustment determination should be directed to the Office of Patent Legal Administration at (571)-272-7702. Questions relating to issue and publication fee payments should be directed to the Customer Service Center of the Office of Patent Publication at 1-(888)-786-0101 or (571)-272-4200.

OMB Clearance and PRA Burden Statement for PTOL-85 Part B

The Paperwork Reduction Act (PRA) of 1995 requires Federal agencies to obtain Office of Management and Budget approval before requesting most types of information from the public. When OMB approves an agency request to collect information from the public, OMB (i) provides a valid OMB Control Number and expiration date for the agency to display on the instrument that will be used to collect the information and (ii) requires the agency to inform the public about the OMB Control Number's legal significance in accordance with 5 CFR 1320.5(b).

The information collected by PTOL-85 Part B is required by 37 CFR 1.311. The information is required to obtain or retain a benefit by the public which is to file (and by the USPTO to process) an application. Confidentiality is governed by 35 U.S.C. 122 and 37 CFR 1.14. This collection is estimated to take 30 minutes to complete, including gathering, preparing, and submitting the completed application form to the USPTO. Time will vary depending upon the individual case. Any comments on the amount of time you require to complete this form and/or suggestions for reducing this burden, should be sent to the Chief Information Officer, U.S. Patent and Trademark Office, U.S. Department of Commerce, P.O. Box 1450, Alexandria, Virginia 22313-1450. DO NOT SEND FEES OR COMPLETED FORMS TO THIS ADDRESS. SEND TO: Commissioner for Patents, P.O. Box 1450, Alexandria, Virginia 22313-1450. Under the Paperwork Reduction Act of 1995, no persons are required to respond to a collection of information unless it displays a valid OMB control number.

Privacy Act Statement

The Privacy Act of 1974 (P.L. 93-579) requires that you be given certain information in connection with your submission of the attached form related to a patent application or patent. Accordingly, pursuant to the requirements of the Act, please be advised that: (1) the general authority for the collection of this information is 35 U.S.C. 2(b) (2); (2) furnishing of the information solicited is voluntary; and (3) the principal purpose for which the information is used by the U.S. Patent and Trademark Office is to process and/or examine your submission related to a patent application or patent. If you do not furnish the requested information, the U.S. Patent and Trademark Office may not be able to process and/or examine your submission, which may result in termination of proceedings or abandonment of the application or expiration of the patent.

The information provided by you in this form will be subject to the following routine uses:

1. The information on this form will be treated confidentially to the extent allowed under the Freedom of Information Act (5 U.S.C. 552) and the Privacy Act (5 U.S.C. 552a). Records from this system of records may be disclosed to the Department of Justice to determine whether disclosure of these records is required by the Freedom of Information Act.
2. A record from this system of records may be disclosed, as a routine use, in the course of presenting evidence to a court, magistrate, or administrative tribunal, including disclosures to opposing counsel in the course of settlement negotiations.
3. A record in this system of records may be disclosed, as a routine use, to a Member of Congress submitting a request involving an individual, to whom the record pertains, when the individual has requested assistance from the Member with respect to the subject matter of the record.
4. A record in this system of records may be disclosed, as a routine use, to a contractor of the Agency having need for the information in order to perform a contract. Recipients of information shall be required to comply with the requirements of the Privacy Act of 1974, as amended, pursuant to 5 U.S.C. 552a(m).
5. A record related to an International Application filed under the Patent Cooperation Treaty in this system of records may be disclosed, as a routine use, to the International Bureau of the World Intellectual Property Organization, pursuant to the Patent Cooperation Treaty.
6. A record in this system of records may be disclosed, as a routine use, to another federal agency for purposes of National Security review (35 U.S.C. 181) and for review pursuant to the Atomic Energy Act (42 U.S.C. 218(c)).
7. A record from this system of records may be disclosed, as a routine use, to the Administrator, General Services, or his/her designee, during an inspection of records conducted by GSA as part of that agency's responsibility to recommend improvements in records management practices and programs, under authority of 44 U.S.C. 2904 and 2906. Such disclosure shall be made in accordance with the GSA regulations governing inspection of records for this purpose, and any other relevant (i.e., GSA or Commerce) directive. Such disclosure shall not be used to make determinations about individuals.
8. A record from this system of records may be disclosed, as a routine use, to the public after either publication of the application pursuant to 35 U.S.C. 122(b) or issuance of a patent pursuant to 35 U.S.C. 151. Further, a record may be disclosed, subject to the limitations of 37 CFR 1.14, as a routine use, to the public if the record was filed in an application which became abandoned or in which the proceedings were terminated and which application is referenced by either a published application, an application open to public inspection or an issued patent.
9. A record from this system of records may be disclosed, as a routine use, to a Federal, State, or local law enforcement agency, if the USPTO becomes aware of a violation or potential violation of law or regulation.

Notice of Allowability**Application No.**

15/910,734

Applicant(s)

Hoy et al.

Examiner

THANHNGA B TRUONG

Art Unit

2498

AIA (FITF) Status

No

-- The MAILING DATE of this communication appears on the cover sheet with the correspondence address--

All claims being allowable, PROSECUTION ON THE MERITS IS (OR REMAINS) CLOSED in this application. If not included herewith (or previously mailed), a Notice of Allowance (PTOL-85) or other appropriate communication will be mailed in due course. **THIS NOTICE OF ALLOWABILITY IS NOT A GRANT OF PATENT RIGHTS.** This application is subject to withdrawal from issue at the initiative of the Office or upon petition by the applicant. See 37 CFR 1.313 and MPEP 1308.

1. ☒ This communication is responsive to communications filed on 8/30/19.
☐ A declaration(s)/affidavit(s) under **37 CFR 1.130(b)** was/were filed on _____.
2. ☐ An election was made by the applicant in response to a restriction requirement set forth during the interview on _____; the restriction requirement and election have been incorporated into this action.
3. ☒ The allowed claim(s) is/are 1-27. As a result of the allowed claim(s), you may be eligible to benefit from the **Patent Prosecution Highway** program at a participating intellectual property office for the corresponding application. For more information, please see http://www.uspto.gov/patents/init_events/pph/index.jsp or send an inquiry to PPHfeedback@uspto.gov.
4. ☐ Acknowledgment is made of a claim for foreign priority under 35 U.S.C. § 119(a)-(d) or (f).

Certified copies:

- a) ☐ All b) ☐ Some *c) ☐ None of the:
1. ☐ Certified copies of the priority documents have been received.
 2. ☐ Certified copies of the priority documents have been received in Application No. _____.
 3. ☐ Copies of the certified copies of the priority documents have been received in this national stage application from the International Bureau (PCT Rule 17.2(a)).

* Certified copies not received: _____.

Applicant has THREE MONTHS FROM THE "MAILING DATE" of this communication to file a reply complying with the requirements noted below. Failure to timely comply will result in ABANDONMENT of this application.

THIS THREE-MONTH PERIOD IS NOT EXTENDABLE.

5. ☐ CORRECTED DRAWINGS (as "replacement sheets") must be submitted.
☐ including changes required by the attached Examiner's Amendment / Comment or in the Office action of Paper No./Mail Date _____.
- Identifying indicia such as the application number (see 37 CFR 1.84(c)) should be written on the drawings in the front (not the back) of each sheet. Replacement sheet(s) should be labeled as such in the header according to 37 CFR 1.121(d).**
6. ☐ DEPOSIT OF and/or INFORMATION about the deposit of BIOLOGICAL MATERIAL must be submitted. Note the attached Examiner's comment regarding REQUIREMENT FOR THE DEPOSIT OF BIOLOGICAL MATERIAL.

Attachment(s)

- | | |
|---|--|
| 1. ☐ Notice of References Cited (PTO-892) | 5. ☐ Examiner's Amendment/Comment |
| 2. ☐ Information Disclosure Statements (PTO/SB/08),
Paper No./Mail Date _____. | 6. ☒ Examiner's Statement of Reasons for Allowance |
| 3. ☐ Examiner's Comment Regarding Requirement for Deposit
of Biological Material _____. | 7. ☐ Other _____. |
| 4. ☐ Interview Summary (PTO-413),
Paper No./Mail Date _____. | |

/THANHNGA B TRUONG/
Primary Examiner, Art Unit 2498

DETAILED ACTION

1. Applicant's amendment filed on August 30, 2019 has been entered. Claims 1-47 are pending. Claims 1-27 are cancelled by the applicant.

Notice of Pre-AIA or AIA Status

2. The present application is being examined under the pre-AIA first to invent provisions.

Response to Argument

3. Applicant's arguments filed August 30, 2019 have been fully considered and are persuasive.

Allowable Subject Matter

4. Claims 28-47 are allowed for the reasons argued by Applicants on page 2 of Remarks, filed August 30, 2019. None of the prior art of record, either taken by itself or in any combination, would have anticipated or made obvious the claimed invention of the present application at or before the date it was effectively filed.

In addition, the prior arts of record Vega; Rene Antonio et al (US 20060005188 A1), WEI; COACH (US 20100251329 A1)), Musiri; Sriram Srivathsan et al (US 20100174811 A1), and Tock; Theron et al (US 8185642 B1) do not disclose these specific limitations of separating the host system from the virtual system using an internal firewall executed on the computer system; implementing network isolation between the computer system and the network using a host-based firewall executed on the computer system; providing at least one device configured to implement a network firewall or a web proxy; and implementing network isolation, between one or more untrusted network destinations and the networked computer system, via the at least one device (emphasis added), as set forth in claim 38 and similar to claims 28 and 18.

Any comments considered necessary by applicant must be submitted no later than the payment of the issue fee and, to avoid processing delays, should preferably accompany the issue fee. Such submissions should be clearly labeled "Comments on Statement of Reasons for Allowance."

Conclusion

Application/Control Number: 15/910,734
Art Unit: 2498

Page 3

5. Any inquiry concerning this communication or earlier communications from the examiner should be directed to THANHNGA B TRUONG whose telephone number is 571-272-3858.

If attempts to reach the examiner by telephone are unsuccessful, the examiner's supervisor, Yin-Chen Shaw can be reached on 571-272-8593. The central fax number for the organization where this application or proceeding is assigned is 571-273-8300.

Any inquiry of a general nature or relating to the status of this application or proceeding should be directed to the receptionist whose telephone number is 571-272-2100.

/THANHNGA B TRUONG/
Primary Examiner, Art Unit 2438
November 7, 2019

<i>Search Notes</i> 	Application/Control No. 15/910,734	Applicant(s)/Patent Under Reexamination Hoy et al.
	Examiner THANHNGA B TRUONG	Art Unit 2498

CPC - Searched*		
Symbol	Date	Examiner
H04L63/0272,101; G06F9/45558; G06F21/52; G06F2009/45587	4/30/2018	WA
H04L63/0272,101; G06F9/45558; G06F21/52; G06F2009/45587	03/15/2019	WA
G06F9/46; G06F21/00; G06F15/173; H04L9/00; G06F21/53; G06F9/455 ; G06F15/16; H04L9/32; H04L63/0272; G06F9/45558; G06F21/53; H04L63/101	07/22/2019; 110719	TBT

CPC Combination Sets - Searched*		
Symbol	Date	Examiner

US Classification - Searched*			
Class	Subclass	Date	Examiner
718/726/709/713	718/1; 726/1,15; 709/223; 709/229; 709/235; 709/245; 726/24; 709/225; 713/170	07/22/2019	TBT

* See search history printout included with this form or the SEARCH NOTES box below to determine the scope of the search.

Search Notes		
Search Notes	Date	Examiner
Inventor and assignee search	4/30/2018	WA
Limited text search using EAST and Google Scholar	4/30/2018	WA
Inventor and assignee search	03/15/2019	WA
Limited text search using EAST and Google Scholar	03/15/2019	WA
Inventor Name Searched; Assignee Searched	07/22/2019; 11/07/19	TBT
TEXT Searched; EAST Searched; NPL Searched - Google/Patents and Scholar; STIC	07/22/2019; 11/07/19	TBT

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<i>Search Notes</i> 	Application/Control No. 15/910,734	Applicant(s)/Patent Under Reexamination Hoy et al.
	Examiner THANHNGA B TRUONG	Art Unit 2498

Interference Search			
US Class/CPC Symbol	US Subclass/CPC Group	Date	Examiner
G06F/H04L	G06F9/46; G06F21/00; G06F15/173; H04L9/00; G06F21/53; G06F9/455; G06F15/16; H04L9/32; H04L63/0272; G06F9/45558; G06F21/53; H04L63/101	11/07/2019	TBT

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Method and apparatus for **implementing** security policies in a **network**

V Giles, B Jemes - US Patent App. 10/896,676, 2006 - Google Patents

... 1) connected to another interface 210 of **network** control point **device** 200 b and corresponding to ... A **single** instance of this bubble type might contain the authoritative DNS servers for a ... **One** advantage of the above-described architecture is that the infrastructure may comprise a ...

☆ 99 Cited by 102 Related articles All 2 versions 🔗

System and method for **implementing** a virtual backbone on a common **network** infrastructure

B Jemes, J Pape, J Garcia, M Milligan - US Patent App. 09/795,778, 2001 - Google Patents

... first and second known networks have unrestricted **network** connectivity to all other **network** **devices** within the **same** known **network** ... system as defined in claim 25. , wherein the first and second virtual backbones are **implemented** using **one** or more ... WO (1), WO2002069597A2 (en ...

☆ 99 Cited by 11 Related articles All 2 versions 🔗

System and method for **implementing network** security policies on a common **network** infrastructure

B Jemes, JM Brawn, J Garcia, M Milligan... - US Patent ... , 2007 - Google Patents

... **network** control point interconnects bubble partitions, **network** control point **devices** within the **same network** control point ... 1 and 2 . Campus 1, 2, and 3 can be organized as four separate real ... enterprise will have **one** virtual backbone, and service providers may have **one** or more ...

☆ 99 Cited by 44 Related articles All 4 versions 🔗

Method and system for testing **internet** software

S Dunagan - US Patent 7,925,692, 2011 - Google Patents

... However, steps 604 and 606 can be repeated for additional tests on the **same** software, or, new software can be tested instead ... **configuring** said at **least one** test client machine to **use** said test **web proxy** to access said at **least one** test **web** server via ... US (1), US7925692B2 (en) ...

☆ 99 Cited by 7 Related articles All 4 versions 🔗

External access to protected **device** on private **network**

G Tredoux, X Xu, B Lyon, R Cain - US Patent App. 09/845,104, 2002 - Google Patents

... This can **create** two problems: [0039]. 1. Race conditions ... A server that associates cookie data with a URL is thus not guaranteed that it will receive the **same** data back ... **One** way of doing this is to prepend the unique identity of the private **network** to each cookie name (that is, place ...

☆ 99 Cited by 59 Related articles All 2 versions 🔗

Method, apparatus and system for virtualized peer-to-peer **proxy** services

S Grobman, CC Jones - US Patent 7,788,713, 2010 - Google Patents

... 1 illustrates an example of a typical virtual machine host **device** ("Host 100 ... Thus, for example, in **one** embodiment, if Host 420 desires to download the **same** OS patch previously ... **One** or more of these elements may be integrated together with the processor on a **single** package ...

☆ 99 Cited by 104 Related articles All 4 versions 🔗

Network session wall passively listening to communication session, with **use** of access rules, stops further communication between **network** **devices** by emulating ...

Z Dascalu - US Patent 5,958,015, 1999 - Google Patents

... **device** stops performing the other **devices** will automatically replace it, assuming that they have access to the **same network** segment ... of session wall **devices** located on a common **network** segment, further comprising the step of, when **one** of said ... WO (1), WO1998019250A1 (en ...

☆ 99 Cited by 155 Related articles All 2 versions 🔗

System and method for increasing host visibility in **network** address translation environments

RG Cutbill, JM Earls - US Patent 7,684,394, 2010 - Google Patents

... at **least one** internal host located inside a **firewall** for the **network**; a dynamic Domain Name Service (DNS) server for creating a ... US (1), US7684394B1 (en ... Corporation, **Internet** server system, method of creating virtual machine of the **internet** server and method of starting the **same** ...

☆ 99 Cited by 120 Related articles All 2 versions 🔗

System and method for **implementing** a bubble policy to achieve host and **network** security

B James, JM Brawn, L Buch-Pedersen - US Patent 7,376,965, 2008 - Google Patents

... inter-bubble **device** and the **network** control point **device implement the same network** security policy ... Alternatively, each bubble might have **one** structured access list template divided into four rule ... 1. action=permit protocol=ip; source=10.1.0.0 source_mask=255.255.0.0; 2. action ...

☆ ⓘ Cited by 53 Related articles All 4 versions ⌕

Enforcing **network** security policies with packet labels

V Giles, B James - US Patent 8,578,441, 2013 - Google Patents

... 29. A **network** control point **device** as claimed in claim 28 arranged to **apply the network** security policy of at **least one network** bubble to incoming ... Cited By (1) ... en), 2002-03-05, 2003-09-12, Mitsubishi Electric Corp, **Network** policy control **system** and policy server used in the **same** ...

☆ ⓘ Cited by 4 Related articles All 2 versions ⌕

Internet isolation for avoiding internet security threats

RB Hoy, M Fenkner, SW Farren - US Patent 9,942,198, 2018 - Google Patents

A host computer supports a virtual guest system running thereon. The host system has a firewall that prevents it from communicating directly with the Internet, except with predetermined trusted sites. The virtual guest runs on a hypervisor, and the virtual guest comprises primarily a browser program that is allowed to contact the Internet freely via an Internet access connection that is completely separate from the host computer connection, such as a dedicated network termination point with its specific Internet IP address, or by ...

☆ ⓘ Related articles All 4 versions ⌕

Internet isolation for avoiding internet security threats

RB Hoy, M Fenkner, SW Farren - US Patent App. 15/910,734, 2018 - Google Patents

A host computer supports a virtual guest system running thereon. The host system has a firewall that prevents it from communicating directly with the Internet, except with predetermined trusted sites. The virtual guest runs on a hypervisor, and the virtual guest comprises primarily a browser program that is allowed to contact the Internet freely via an Internet access connection that is completely separate from the host computer connection, such as a dedicated network termination point with its specific Internet IP address, or by ...

☆ ⓘ All 2 versions ⌕

Showing the best results for this search. See all results

A network perimeter with secure external access

FM Avolio, MJ Ranum, MD Glenwood - ... Symposium on Network and ... 1994 - static.zedz.net
 ... Still, we believe that a **host-based firewall** is superior to other designs because of the ease ... initial connection to a general-purpose **network** listener inetd, which establishes a connection **between** ...
 For example, an incoming request for the TELNET service is "heard" by the **running** ...

☆ 55 Cited by 75 Related articles All 43 versions

Model based **systems** management in virtualized and non-virtualized environments

J Neystadt, Y Edery, Y Belinky, AB Virberg - US Patent ... 2014 - Google Patents
 ... to validate and detect a discrepancy **between** the deployed service and an associated security ...
 according to a security model; deploying the virtual machine to a specific host ... locking down the
 virtual machine; and, **configuring firewall**, intrusion detection, and intrusion prevention ...

☆ 57 Cited by 57 Related articles All 4 versions

System and method for protecting a **computer system** from malicious software

AF Rozman, AJ Cioffi - US Patent 7,484,247, 2009 - Google Patents
 ... error, a new piece of malware unrecognized by the anti-malware program or **firewall**, or an ... By
 using exemplary process 600 (or an equivalent), **computer system** 100 is capable of actively ... Such
 a **configuration** may be more secure, as a conduit **between** the 110-120 **system** and ...

☆ 174 Cited by 174 Related articles All 4 versions

Tamper-resistant, application-aware blocking of malicious **network** connections

A Srivastava, J Giffin - International Workshop on Recent Advances in ... 2008 - Springer
 ... 2 Related Work Prior research has contributed to the development of conventional **host-based**
firewalls. Mogul et al ... without VMwall **running** inside dom0. All experiments were conducted on
 a machine with an Intel Core 2 Duo T7500 processor at 2.20 GHz with 2 GB RAM ...

☆ 137 Cited by 137 Related articles All 14 versions

System and methods for **implementing network** traffic management for virtual and physical machines

M Deico, M Eccleston, M Ginzton, G Wibling - US Patent 8,166,474, 2012 - Google Patents
 ... By default, DHCP protocol packets are enabled through the **host-based** packet filter as desired ...
 VMX process 92 is initially allocated to manage the **execution** of an instance of ... 70, which
 determines the particular hardware interface emulated, is determined from a virtual machine ...

☆ 60 Cited by 60 Related articles All 2 versions

Network service for the detection, analysis and quarantine of malicious and unwanted files

J Oberheide, E Cooke, F Jahanian - US Patent 8,621,610, 2013 - Google Patents
 ... Briefly, the host agent 12 is a **host-based** software component that acquires files and forwards
 them to the ... The interface allows the querier to specify a broad range of filters including ... 4. An
 expression indicating what file names should be included in the query; 5. The types of files ...

☆ 279 Cited by 279 Related articles All 4 versions

VL2: a scalable and flexible data center **network**

A Greenberg, JR Hamilton, N Jain, S Kandula - ... SIGCOMM computer ... 2009 - dl.acm.org
 ... We analyzed hardware and software failures of switches, routers, load balancers, **firewalls**, links
 and servers using SNMP polling/traps, syslogs, server alarms, and transaction monitoring
 frameworks ... Hence, when an application sends a packet to an AA for the first time ...

☆ 2449 Cited by 2449 Related articles All 68 versions

Isolation and security hardening **among** workloads in a multi-tenant networked environment

S Barjatiya, KP Saripalli - US Patent 8,632,620, 2014 - Google Patents
 ... said first processor, wherein said switch comprises a virtual switch or a software **firewall**; ... Generally,
 a **computer** program product (or, alternatively, an article of manufacture) of **computer system** ... A
 virtual machine is a software **implementation** of a **computer** that **runs** programs and ...

☆ 57 Cited by 57 Related articles All 4 versions

Network computer system and method using thin user client and virtual machine to provide immunity to hacking, viruses and spy ware

K Largman, AB More, J Blair, K Macy - US Patent App. 11/848,097, 2008 - Google Patents

... users who utilize anti-viral and the like detection and prevention practices, including **firewalls**, and the ... of the actual or potential incompatibility and provide **an** interface for making **an** alternative selection ... the other user **VM computing** environments, that at least one file at **a** time is ...

☆ ⓘ Cited by 106 Related articles All 2 versions ⓘ

System, method, and software for enforcing access control policy rules on utility **computing** virtualization in cloud **computing systems**

E Hadar, N Vax, A Jerbi, M Klefskin - US Patent 8,490,160, 2013 - Google Patents

... According to one embodiment, **a system** comprises one or more processors coupled to **a** memory and **executing** logic ... the virtual hosting enforcement component 560 may feature **an** administration gateway 562, **a** roaming sentry 564, **a firewall** sentry 566, and **an** IO sentry ...

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an internal firewall is configured to separate the host system from the vir



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System for packet filtering of data packet at a computer ...

www.google.com/patents/US5884025



Grant - Filed Feb 4, 1997 - Issued Mar 16, 1999 - Geoffrey G. Baehr - Sun Microsystems, Inc.
Computer firewalls have therefore been developed, as in the **system 50** shown in FIG.
 proxy (or virtual) hosts 435, which preferably are **separate computer systems**. . . . Whichever
 configuration is adopted, the private network 330 and the proxy and apparatus for
 providing policy-based services for **internal** applications.
[Overview](#) - [Related](#) - [Discuss](#)

Dynamic firewall and dynamic host configuration protocol ...

www.google.com/patents/US8752160



Grant - Filed Sep 13, 2012 - Issued Jun 10, 2014 - Jason R. Belker - Sprint Communications
 Company L.P.
 A **system** is provided comprising a **computer system** and a dynamic network ... information
 and the **virtual** local area network tag to a **firewall** component and to a ...
[Overview](#) - [Related](#) - [Discuss](#)

Firewall providing enhanced network security and user ...

www.google.com/patents/US20040088586



App. - Filed Nov 6, 2003 - Published May 6, 2004 - Ralph Wesinger - Wesinger Ralph E.
 The **user** added burden of **prior-art proxy systems** is avoided in such a way as ... To achieve
 full transparency, the **firewall** is **configured** as two or more sets of **virtual hosts**. ... relates to
computer network security and more particularly to **firewalls**, i.e., ... to another (often from
 the Internet to an internal network, and vice versa).
[Overview](#) - [Related](#) - [Discuss](#)

Context-aware distributed firewall

www.google.com/patents/WO2016069441A1?cl=en



App. - Filed Apr 24, 2015 - Published Jun 9, 2016 - Jingmin Zhou - Nicira, Inc.
 ... **virtual** ... Often, every **firewall** controller receives a large set of rules targeting at the ...
 However, the hypervisor / **firewall** controller of the **host machine** identifies ... III describes
 an example **computing device** that serve as a **host machine** of VMs. top of a **host**
operating system without the need for a hypervisor or **separate** ...
[Overview](#) - [Related](#) - [Discuss](#)

System and method for managing resources in a virtual ...

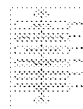
www.google.com/patents/US20130283263



App. - Filed Apr 19, 2012 - Published Oct 24, 2013 - Walid H. Elernary - Incloud, Inc.
 A **system** and method for assigning attributes, such as directory or **firewall** ... **configured** to
 receive inputs from the user comprising attributes for a **virtual** ... running within the VM will
 act just as they would if run on a "real" **computer** ... on the hardware and virtualizes all the
 resources of the physical **host machine**. **separate** ...
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Method and system for creating a virtual network path

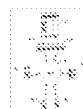
www.google.com/patents/US7945647



Grant - Filed Dec 10, 2007 - Issued May 17, 2011 - Sunay Tripathi - Oracle America, Inc.
 The **virtual network path** includes a first **virtual wire** between a first ... a network is an
 arrangement of physical **computer systems** **configured** to ... **internal** ... **separate** ... a router,
 a **firewall**, a load balancer, an application server, any other ... network connectivity from the
host operating system via VNICS (e.g., ...
[Overview](#) - [Related](#) - [Discuss](#)

System and method for providing dynamic network firewall ...

www.google.com/patents/US20070255861



App. - Filed Aug 3, 2006 - Published Nov 1, 2007 - Michael T. Kain - Kain Michael T.
 A **computing system** having **host computer** and an I/O processor (IOP) ... a set of **firewall**
 command messages used by a **host processing system** to control ...
[Overview](#) - [Related](#) - [Discuss](#)

System And Method For Providing Network And Computer ...

www.google.com/patents/US20090126003



App. - Filed May 30, 2008 - Published May 14, 2009 - Shlomo Touboul - Yoggie Security
 Systems, Inc.

11/7/2019

an internal firewall is configured to separate the host system from the virtual system in the computer system - Google Search



The computer may communicate with a firewall configured to handle both ... data exchange system 1100 that includes a host computer (host) 1105 and an ... The firewall may be configured to dynamically isolate the address from an ... thereby dynamically isolating the internal address from the external network. ... virtual ...
Overview · Related · Discuss

Method and apparatus for integrating a service virtual machine

www.google.com/patents/US20150281180



App. - Filed Mar 31, 2014 - Published Oct 1, 2015 - Chids Raman - Nicira, Inc.
Instead of connecting the firewall SVM to the host's software forwarding ... 1 illustrates an example of a virtualization architecture of a host computing device.
Overview · Related · Discuss

Secure publishing of data to DMZ using virtual hard drives

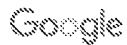
www.google.com/patents/US8601124



Grant - Filed Jun 25, 2007 - Issued Dec 3, 2013 - Robert M. Fries - Microsoft Corporation
A secure DMZ-resident computer that cannot connect to the internal network ... The DMZ host computer may be configured with two network interface cards ... The DMZ resident virtual computer simply detects the presence of the new ... firewall ... Because the host server operating system cannot access the DMZ, the host ...
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Network isolation techniques suitable for virus protection

www.google.com/patents/US20050050336


App. - Filed Oct 9, 2003 - Published Mar 3, 2005 - Yung Liang - Trend Micro Incorporated, A Japanese Corporation
 However, there exists a class of executable code that, if downloaded and executed at host computers, may wreak havoc with the operating system, the hardware ...
[Overview](#) · [Related](#) · [Discuss](#)

System And Method For Providing Network And Computer ...

www.google.com/patents/US20090126003


App. - Filed May 30, 2008 - Published May 14, 2009 - Shlomo Touboul - Yoggie Security Systems, Inc.
 The **firewall** may be located on a mobile security system. The network address translation engine may be configured to use Dynamic Host Configuration Protocol ...
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System for packet filtering of data packet at a computer ...

www.google.com/patents/US5884025


Grant - Filed Feb 4, 1997 - Issued Mar 16, 1999 - Geoffrey G. Baehr - Sun Microsystems, Inc.
 A system for screening data packets transmitted between a network to be ... The proxy network is isolated from the private network, so it cannot be used as a ... or out of a host in the private network) are filtered based upon their contents. ... Computer firewalls have therefore been developed, as in the system 50 shown in FIG ...
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Firewall providing enhanced network security and user ...

www.google.com/patents/US20040088586

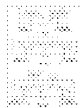

App. - Filed Nov 6, 2003 - Published May 6, 2004 - Ralph Wesinger - Wesinger Ralph E.
 Both connection-oriented (e.g., TCP) and connectionless (e.g., UDP-based) ... Another set of hosts responds to addresses on a second network interface of ... use ... of combining a firewall with other packages on the same computing system ... the firewall should ideally run on a dedicated computer, i.e. one which does ...
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System and method for providing network and computer ...

www.google.com/patents/US9391956


Grant - Filed Jan 18, 2013 - Issued Jul 12, 2016 - Shlomo Touboul - Cupp Computing As
 A computer performs dynamic address isolation. ... The computer may communicate with a firewall configured to handle both network-level security and ...
[Overview](#) · [Related](#) · [Discuss](#)

System and method for securing a computer communication network

www.google.com/patents/EP0959586A2?cl=en


App. - Filed May 12, 1999 - Published Nov 24, 1999 - Haim Baruch Carmeli - Spearhead Technologies Ltd.
 A system for providing a trusted computer communication network including a ... non-trusted network, and all data transported between the trusted network ... how to use the enabled ports in order to overcome the FIREWALL system. ... is preferably a Windows NT™ operating system-based application, which runs ... Host ...
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Dedication of administrative servers to management of server ...

www.google.com/patents/US7698400


Grant - Filed Apr 19, 2004 - Issued Apr 13, 2010 - Serguei Belousov - Swooft Holdings, Ltd.
 A server process is launched by the computer system for providing services to users. An isolated Virtual Private Server (VPS) has a set of services that perform ... The multiplexing can be based on a network protocol addressing, or on a ... hosting ... firewall configuration, the person configuring the firewall could accidentally ...
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Context-aware distributed firewall

www.google.com/patents/WO2016089441A1?cl=en


App. - Filed Apr 24, 2015 - Published Jun 9, 2016 - Jingmin Zhou - Nicira, Inc.

 in some embodiments, **firewall** controllers are implemented by hypervisors or virtualization software running on host machines, and the **network** addresses ...
[Overview](#) · [Related](#) · [Discuss](#)

Hybrid network software provision

www.google.com/patents/US9106514

 Grant - Filed Dec 30, 2010 - Issued Aug 11, 2015 - Raghuram Kanadam - Spirent Communications, Inc.
The local machine may also **execute** a browser **configured** to ... The local executable may act on the local resources of the **computer** device in ...
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Ultra-Low Power Single-Chip Firewall Security Device, System ...

www.google.com/patents/US20130061283

 App. - Filed Dec 21, 2011 - Published Mar 7, 2013 - Ian Henry Stuart Cullimore - Ian Henry Stuart Cullimore
The operating **system** is **based** fundamentally around a protocol stack (e.g., TCP/IP ... conventional processor designs **use** a fixed-frequency, continuously running **computer**, a laptop **computer**, a server, a **network** host, a handheld **computer**, ... The **firewall** security device 120 is **configured** to control **network** traffic between ...
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EAST Search History (Prior Art)

Ref #	Hits	Search Query	DBs	Default Operator	Plurals	Time Stamp
L2	71	("HOY, ROBERT" or "FENKNER, MARK" or "FARREN, SEAN").inv.	USPAT	OR	OFF	2019/11/07 22:51
L3	1	l2 and ((computer with system) with ((host with system) and (virtual with system)))	USPAT	OR	OFF	2019/11/07 22:52
L4	1	l2 and ((internal with firewall) with ((configur\$3 with separat\$3) with ((host with system) and (virtual with system))))	USPAT	OR	OFF	2019/11/07 22:52
L5	0	l2 and (((host-based with firewall) with (execut\$3 with (computer with system))) with ((configur\$3 with implement\$3) with (network with isolation) with ((computer with system) with network)))	USPAT	OR	OFF	2019/11/07 22:52
L6	0	l2 and ((device with configur\$3) with (implement\$3 with ((network with firewall) or (web with proxy))))	USPAT	OR	OFF	2019/11/07 22:52
L7	0	l2 and (((device with configur\$3) with (implement\$3 with (network with isolation))) with ((untrust\$3 with network with destination) and (network\$3 with computer with system)))	USPAT	OR	OFF	2019/11/07 22:53
L8	122	"L-3 COMMUNICATIONS CORP"	USPAT	OR	OFF	2019/11/07 22:53
L9	0	l8 and ((computer with system) with ((host with system) and (virtual with system)))	USPAT	OR	OFF	2019/11/07 22:53
L10	0	l8 and ((internal with firewall) with ((configur\$3 with separat\$3) with ((host with system) and (virtual with system))))	USPAT	OR	OFF	2019/11/07 22:53
L11	0	l8 and (((host-based with firewall) with (execut\$3 with (computer with system))) with ((configur\$3 with implement\$3) with (network with isolation) with ((computer with system) with network)))	USPAT	OR	OFF	2019/11/07 22:53
L12	0	l8 and ((device with configur\$3) with (implement\$3 with ((network with firewall) or (web with proxy))))	USPAT	OR	OFF	2019/11/07 22:54
L13	0	l8 and (((device with configur\$3) with (implement\$3 with (network with isolation))) with ((untrust\$3 with network with destination) and (network\$3 with computer with system)))	USPAT	OR	OFF	2019/11/07 22:54
L14	22925	(G06F9/46; G06F21/00; G06F15/173; H04L9/00; G06F21/53; G06F9/455; G06F15/16; H04L9/32; H04L63/0272; G06F9/45558; G06F21/53; H04L63/101).cpc.	USPAT	OR	OFF	2019/11/07 22:55
L15	2602	l14 and ((computer with system) with ((host with system) and (virtual with system)))	USPAT	OR	OFF	2019/11/07 22:55
L16	1	l15 and ((internal with firewall) with ((configur\$3 with separat\$3) with ((host with	USPAT	OR	OFF	2019/11/07 22:56

		system) and (virtual with system))))				
L17	0	l15 and (((host-based with firewall) with (execut\$3 with (computer with system))) with ((configur\$3 with implement\$3) with (network with isolation) with ((computer with system) with network)))	USPAT	OR	OFF	2019/11/07 22:56
L18	0	l15 and ((device with configur\$3) with (implement\$3 with ((network with firewall) or (web with proxy))))	USPAT	OR	OFF	2019/11/07 22:56
L19	0	l15 and (((device with configur\$3) with (implement\$3 with (network with isolation))) with ((untrust\$3 with network with destination) and (network\$3 with computer with system)))	USPAT	OR	OFF	2019/11/07 22:57
L24	0	"l21" and ((device with configur\$3) with (implement\$3 with ((network with firewall) or (web with proxy))))).clm.	USPAT	OR	OFF	2019/11/07 23:02

EAST Search History (Interference)

Ref #	Hits	Search Query	DBs	Default Operator	Plurals	Time Stamp
L20	22925	(G06F9/46; G06F21/00; G06F15/173; H04L9/00; G06F21/53; G06F9/455; G06F15/16; H04L9/32; H04L63/0272; G06F9/45558; G06F21/53; H04L63/101).cpc.	USPAT	OR	OFF	2019/11/07 22:57
L21	874	l20 and ((computer with system) with ((host with system) and (virtual with system))).clm.	USPAT	OR	OFF	2019/11/07 22:58
L22	1	l21 and ((internal with firewall) with ((configur\$3 with separat\$3) with ((host with system) and (virtual with system))))).clm.	USPAT	OR	OFF	2019/11/07 23:01
L23	0	l21 and (((host-based with firewall) with (execut\$3 with (computer with system))) with ((configur\$3 with implement\$3) with (network with isolation) with ((computer with system) with network))).clm.	USPAT	OR	OFF	2019/11/07 23:02
L25	0	l21 and ((device with configur\$3) with (implement\$3 with ((network with firewall) or (web with proxy))))).clm.	USPAT	OR	OFF	2019/11/07 23:02
L26	0	l21 and (((device with configur\$3) with (implement\$3 with (network with isolation))) with ((untrust\$3 with network with destination) and (network\$3 with computer with system))).clm.	USPAT	OR	OFF	2019/11/07 23:02

11/7/2019 11:04:15 PM

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1. Embedded System

By: Tierney, Sade. Edition: 1st ed. Delhi : The English Press. 2011. eBook.
Description: Chapter 1- Introduction to Embedded System Chapter 2 -
Inertial Navigation System Chapter 3 - Motor Controller System Chapter 4 -
Anti-Lock Braking System Chapter 5 - Electronic Stability Control System
Chapter 6 - Cyber-Physical System & Anti-Hijack System Chapter 7 -
Digifant Engine Management System Chapter 8 - Real-Time Operating
System Chapter 9 - Immunity Aware Programming (AN 381852), Database:
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Subjects: COMPUTERS / General; Embedded computer systems

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2. Virtualization layer security challenges and intrusion detection/prevention **systems** in cloud computing: a comprehensive review.

By: Modi, Chirag; Acha, Kamatchi. *Journal of Supercomputing*. Mar2017. Vol. 73 Issue 3, p1192-1234. 43p. Abstract: Virtualization plays a vital role in the construction of cloud computing. However, various vulnerabilities are existing in current virtualization implementations, and thus there are various security challenges at virtualization layer. In this paper, we investigate different vulnerabilities and attacks at virtualization layer of cloud computing. We examine the proposals of cloud intrusion detection **system** (IDS) and intrusion detection and prevention **system** frameworks. We recommend the cloud IDS requirements and research scope to achieve desired level of security at virtualization layer of cloud computing. [ABSTRACT FROM AUTHOR] DOI: 10.1007/s11227-016-1805-9. (AN: 121442516), Database: Academic Search Complete

Subjects: CLOUD computing; **VIRTUAL** machine **systems**; INTRUSION detection **systems** (Computer security); **FIREWALLS** (Computer security); **COMPUTER** network security; Data Processing, Hosting, and Related Services

PDF Full Text (2.5MB) USPTO Full Text Options

3. **System Center 2016 Virtual Machine Manager Cookbook, : Design, Configure, and Manage an Efficient Virtual Infrastructure with VMM in System Center 2016, 3rd Edition**

By: Levchenko, Roman; Cardoso, Edvaldo Alessandro. Edition: Third edition. Birmingham, UK : Packt Publishing. 2018. eBook. Description: Maximize your administration skills effectively and efficientlyKey Featuresimplement cost-effective virtualization solutions for your organization with actionable recipesExplore the concepts of VMM with real-world use casesUse the latest features with VMM 2016 such as Cluster OS Rolling Upgrade, Guarded Fabric and Storage Spaces DirectBook DescriptionVirtual Machine Manager (VMM) 2016 is part of the System Center suite to configure and manage datacenters and offers a unified management experience ... (AN 1717559), Database: eBook Index

Subjects: COMPUTERS / System Administration / Windows Administration; COMPUTERS / System Administration / General; COMPUTERS / Cloud Computing; Cloud computing; Configuration management; Virtual computer systems



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4. **Sustainable ICTs and Management Systems for Green Computing**

By: Kaabouch, Naima; Hu, Wen Chen. Hershey, PA : IGI Global. 2012. eBook. Description: 'This book focuses on information technology using sustainable green computing to reduce energy and resources used'-- Provided by publisher. (AN 458135), Database: eBook Collection (EBSCOhost)

Subjects: TECHNOLOGY & ENGINEERING / Electronics / Digital; TECHNOLOGY & ENGINEERING / Electronics / Microelectronics; Electronic data processing departments; Electronic apparatus and appliances-- Environmental aspects; Computer networks--Energy conservation; Telecommunication--Energy conservation; Green technology; Electronic data processing--Energy conservation

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5. Firewall Technologies

By: Vasile, Cristinel-Marius. In: International Journal of Information Security and Cybercrime, Vol. 7, Issue 1 (June 2018), pp. 37-44 (AN: *edshol.hein.journals.ijisc7.9*), Database: HeinOnline

Subjects: Criminal Justice Terrorism and Security Issues Evidence



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6. The role and security of **firewalls** in cyber-physical cloud computing.

By: Ullrich, Johanna; Cropper, Jordan; Frühwirth, Peter; Weippl, Edgar.
EURASIP Journal on Information Security, 8/12/2016, Vol. 2016 Issue 1, p1-20, 20p Abstract: Clouds are here to stay, and the same holds for cyber-physical **systems**-not to forget their combination. In light of these changing paradigms, it is of utter importance to reconsider security as both introduce new challenges. Overcoming the concept of zoned networks, clouds make former **internal** traffic traveling the Internet. Cyber-physical **systems** include physical parts into computing and make them potential targets for cyber attacks-a dare as a high number of physical parts have originally been developed to be stand-alone. Cyber-physical cloud computing reinforces the need for a thoughtful security concept. **Firewalls** are among the basic building blocks in network security and are offered by various cloud providers; however, the question on their quality of protection arises. In this paper, we assess **firewall** offers of five major cloud providers with respect to cyber-physical **system** integration. Therefore, we study their default configuration, configuration capabilities, documentation, and filtering behavior. We developed an extendible **firewall** monitoring tool that enables customers to probe their provider's filtering behavior-an information of interest for risk management or further security consideration. Re-assessing filtering behavior, we found that all offered **firewalls** have evolved over a time period of more than a year: Configuration possibilities have been enhanced, more illegitimate packets are filtered now, and stateful behavior was discovered at a certain provider. [ABSTRACT FROM AUTHOR]; DOI: 10.1186/s13635-016-0042-3; (AN 117380061), Database: Applied Science & Technology Source

Subjects: Computer security; **Firewalls** (Computer security); Cyber physical **systems**; Cloud computing; Internet service providers; All Other Telecommunications; Other telecommunications; Wired Telecommunications Carriers; Data Processing, Hosting, and Related Services

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7. Random domain name and address mutation (RDAM) for thwarting reconnaissance attacks.

By: Wang, Kai; Chen, Xi; Zhu, Yuefei. *PLoS ONE*. 5/10/2017, Vol. 12 Issue 5, p1-22. 22p. Abstract: Network address shuffling is a novel moving target defense (MTD) that invalidates the address information collected by the attacker by dynamically changing or remapping the host's network addresses. However, most network address shuffling methods are limited by the limited address space and rely on the host's static domain name to map to its dynamic address; therefore these methods cannot effectively defend against random scanning attacks, and cannot defend against an attacker who knows the target's domain name. In this paper, we propose a network defense method based on random domain name and address mutation (RDAM), which increases the scanning space of the attacker through a dynamic domain name method and reduces the probability that a host will be hit by an attacker scanning IP addresses using the domain name system (DNS) query list and the time window methods. Theoretical analysis and experimental results show that RDAM can defend against scanning attacks and worm propagation more effectively than general network address shuffling methods, while introducing an acceptable operational overhead. [ABSTRACT FROM AUTHOR] DOI: 10.1371/journal.pone.0177111. (AN: 122960233), Database: Academic Search Complete

Subjects: INTERNET domain naming **system**; **COMPUTER** operating **systems**; PHYSICAL sciences; APPLIED mathematics; **COMPUTER** simulation; Software Publishers; Software publishers (except video game publishers); Research and Development in the Physical, Engineering, and Life Sciences (except Biotechnology)

PDF Full Text (3.3MB) USPTO Full Text Options

8. **Handbook of Green Information and
Communication Systems**

By: Woungang, Isaac; Anpalagan, Alagan; Obaidat, Mohammad S.
Amsterdam : Academic Press. 2013. eBook. Description: This book gives a
comprehensive guide on the fundamental concepts, applications, algorithms,
protocols, new trends and challenges, and research results in the area of
Green Information and Communications **Systems**. It is an invaluable
resource giving knowledge on the core and specialized issues in the field,
making it highly suitable for both the new and experienced researcher in this
area. Key Features: Core research topics of green information and
communication **systems** are covered from a network ... (AN 485200),
Database: eBook Collection (EBSCOhost)

Subjects: TECHNOLOGY & ENGINEERING / Signals & Signal Processing;
SCIENCE / Environmental Science; Sustainable engineering--Handbooks,
manuals, etc; Telecommunication--Environmental aspects--Handbooks,
manuals, etc; Telecommunication--Energy conservation--Handbooks,
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9. Distributed Network **Systems** : From Concepts to Implementations

By: Jia, Weijia; Zhou, Wanlei. Series: Network Theory and Applications, v. 15. New York : Springer, 2005. eBook. Description: This textbook covers both theoretical and practical aspects of distributed computing. It describes the client-server model for developing distributed network **systems**, the communication paradigms used in a distributed network **system**, and the principles of reliability and security in the design of distributed network **systems**. Based on theoretical introductions, the book presents various implementation strategies and techniques for building distributed network **systems**, including examples in TCP/IP communications, ... (AN 130165). Database: eBook Collection (EBSCOhost)

Subjects: **COMPUTERS** / Data Transmission **Systems** / General; **COMPUTERS** / Networking / Vendor Specific; **Computer** networks; Electronic data processing--Distributed processing

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10. Ports and Protocols Extended Control for Security.

By: Simpson, William R.; Foltz, Kevin E.. *IAENG International Journal of Computer Science*, May2017, Vol. 44 Issue 2, p72-85, 14p Abstract: Network protocols have vulnerabilities, and one way to reduce these vulnerabilities is to reduce the protocols in use to a small set of well-tested standard protocols. This reduces the attack surface and provides high confidence in selected communications. Screening of acceptable ports and protocols can be done by network appliances known as **firewalls**. Communications on the approved list are permitted, and others blocked. Many appliances now have port and protocol filters, and the server or service itself may have a hostbased security **system** that can apply this functionality. This paper covers enterprise considerations for use and screening of ports and protocols. [ABSTRACT FROM AUTHOR]; (AN 123419636), Database: Applied Science & Technology Source

Subjects: **Computer** network protocols; **Computer** network security; Information technology security measures; **Firewalls** (**Computer** security); Ports (Electronic **computer system**)

[PDF Full Text \(10.4MB\)](#) [USPTO Full Text Options](#)

11. Dynamic Construction Scheme for Virtualization Security Service in Software-Defined Networks.

By: Zhaowen Lin; Dan Tao; Zhenji Wang. *Sensors* (14248220). Apr2017, Vol. 17 Issue 4, p920. 18p. Abstract: For a Software Defined Network (SDN), security is an important factor affecting its large-scale deployment. The existing security solutions for SDN mainly focus on the controller itself, which has to handle all the security protection tasks by using the programmability of the network. This will undoubtedly involve a heavy burden for the controller. More devastatingly, once the controller itself is attacked, the entire network will be paralyzed. Motivated by this, this paper proposes a novel security protection architecture for SDN. We design a security service orchestration center in the control plane of SDN, and this center physically decouples from the SDN controller and constructs SDN security services. We adopt virtualization technology to construct a security meta-function library, and propose a dynamic security service composition construction algorithm based on web service composition technology. The rule-combining method is used to combine security meta-functions to construct security services which meet the requirements of users. Moreover, the RETE algorithm is introduced to improve the efficiency of the rule-combining method. We evaluate our solutions in a realistic scenario based on OpenStack. Substantial experimental results demonstrate the effectiveness of our solutions that contribute to achieve the effective security protection with a small burden of the SDN controller. [ABSTRACT FROM AUTHOR] DOI: 10.3390/s17040920. (AN: 122915136), Database: Academic Search Complete

Subjects: SECURITY systems -- Management; VIRTUAL machine systems; COMPUTER software; ALGORITHMS; CONTROLLERSHIP; Computer and software stores; Computer, computer peripheral and pre-packaged software merchant wholesalers; Software publishers (except video game publishers); Computer and Computer Peripheral Equipment and Software Merchant Wholesalers; Security Systems Services (except Locksmiths)

PDF Full Text (2.4MB) USPTO Full Text Options

12. How to Implement Open-Source Solutions:
Firewalls.

By: Earley, Erwin. *System INEWS*, Feb2012, Issue 388, following p24-24, 6p, 2 Color Photographs, 1 Black and White Photograph, 3 Diagrams
Abstract: In this article, the author focuses on the solutions offered by Linux, a **computer operating system**, in order to improve security and stability of **computer systems**. The author suggests that open-source **firewall** software is more cost effective and it provides protection to information technology (IT) infrastructure by preventing unauthorized access to the network. He further informs that Linux **firewall** comes with a package called iptables to prevent attacks from corrupted network packets.; (AN 72326012), Database: Applied Science & Technology Source

Subjects: Linux operating **systems**; **Computer** access control; **Computer** security; **Firewalls (Computer security)**; Data packeting

Show all 6 images



[PDF Full Text \(5.2MB\)](#) [USPTO Full Text Options](#)

13. Endpoint **firewall** for local security hardening in academic research environment.

By: Sobeslav, Vladimir; Balik, Ladislav; Hornig, Ondrej; Horalek, Josef; Krejcar, Ondrej. *Journal of Intelligent & Fuzzy Systems*. 2017, Vol. 32 Issue 2, p1475-1484. 10p. Abstract: This article presents a security **system** proposal, providing a low-level endpoint security and network activity monitoring. Its focus is to provide a necessary information for local administrators, who does not necessarily have the knowledge of networking infrastructure or access to it, according to the security policies of a parent organization. The proposed **system** is designed for academic research environments, where it serves as a tool for an extended security in protection of sensitive data used in research and development against the local and remote threats. The developed **system** was extended to contain central security point which acts as a server with IDS/IPS capability and enrich the whole functionality of distributed firewalling **system**. [ABSTRACT FROM AUTHOR] DOI: 10.3233/JIFS-169143. (AN: 121054431), Database: Academic Search Complete

Subjects: FIREWALLS (Computer security); COMPUTER network security; WEBSITE security measures; DATA protection; DATA security; RECORDS management; Other business support services; Internet Publishing and Broadcasting and Web Search Portals; Computer systems design and related services (except video game design and development); Other Computer Related Services

PDF Full Text (1.8MB) USPTO Full Text Options

14. **Encyclopedia of Virtual Communities and Technologies**

By: Dasgupta, Subhasish. Hershey, PA : IGI Global. 2006. eBook.

Description: 'This encyclopedia of virtual communities and technologies provides a much needed integrated overview of all the critical concepts, technologies and issues in the area of virtual communities'--Provided by publisher. (AN 136243), Database: eBook Collection (EBSCOhost)

Subjects: **COMPUTERS** / Data Transmission **Systems** / General; **COMPUTERS** / Networking / Vendor Specific; Electronic villages (**Computer networks**)--Encyclopedias; Telecommunication--Encyclopedias; **Virtual reality**--Encyclopedias

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15. A security and trust framework for virtualized networks and software-defined networking.

By: Yan, Zheng; Zhang, Peng; Vasilakos, Athanasios V.. *Security & Communication Networks*, 11/10/2016, Vol. 9 Issue 16, p3059-3069, 11p

Abstract: With the great success of the second-generation wireless telephone technology and the third-generation mobile telecommunications technology, and the fast development of the fourth-generation mobile telecommunications technology, the phase of fifth-generation mobile networks or fifth-generation wireless **systems** (5G) is coming. In this article, we indicate the open research issues of 5G security and trust in the context of virtualized networking and software-defined networking. We further propose a framework of security and trust focusing on solving 5G network security issues. The proposed framework applies adaptive trust evaluation and management technologies and sustainable trusted computing technologies to ensure computing platform trust and achieve software-defined network security. It adopts cloud computing to securely deploy various trustworthy security services over the virtualized networks. We analyze that the framework can support and satisfy all security requirements specified in standardization. We also suggest future research work according to the proposed framework and discuss the advantages of our framework in terms of practical deployment. Copyright © 2015 John Wiley & Sons, Ltd. [ABSTRACT FROM AUTHOR]; DOI: 10.1002/sec.1243; (AN 119057636). Database: Applied Science & Technology Source

Subjects: Virtual networks; Software-defined networking (**Computer network technology**); **Computer security**; Mobile communication **systems**; Wireless Telecommunications Carriers (except Satellite); Cordless telephones; 5G networks

PDF Full Text (278KB) USPTO Full Text Options

16. **Key Vulnerabilities of Industrial Automation and Control Systems and Recommendations to Prevent Cyber-Attacks.**

By: Calvo, I.; Etxeberria-Agiriano, I.; Ifigo, M. A.; González-Nalda, P..
International Journal of Online Engineering , 2016, Vol. 12 Issue 1, p9-16, 8p
Abstract: Until recently, Industrial Automation and Control **Systems** (IACS) were largely isolated from corporate **systems** by means of proprietary protocols, which facilitated their protection against cyber-attacks under the principle of security through obscurity. However, the widespread adoption of the new communication technologies, such as the Internet protocols and wireless communications has changed this scenario. In recent years there have been many evidences of cyberattacks to IACS that exploit their vulnerabilities. Unfortunately, these attacks have increased significantly during the last five years, and quite clearly only the tip of the iceberg comes to the public knowledge. The purpose of this article is twofold: (1) to raise awareness about the security vulnerabilities that most companies are facing at their IACS and (2) to propose a roadmap that seeks to guide designers and programmers in the new and complex world of industrial cyber-security. [ABSTRACT FROM AUTHOR]; DOI: 10.3991/ijoe.v12i1.4888; (AN 112350306), Database: Applied Science & Technology Source

Subjects: Automatic control **systems**; Cyberterrorism; **Computer** network protocols; Wireless communications; **Computer** security; Other printing; Wireless Telecommunications Carriers (except Satellite); Radio and Television Broadcasting and Wireless Communications Equipment Manufacturing; Road maps

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17. A study on attack information collection using virtualization technology.

By: Yang, Hwan-Seok. *Multimedia Tools & Applications*, Oct2015, Vol. 74 Issue 20, p8791-8799, 9p Abstract: Internet is used in all sectors of society by rapid changes in computing technology and expanded internet prevalence. But due to opposite effect of this, malicious code and damage of hacking is growing rapidly and the technique is becoming various. Attacker's attack patterns and information should be collected in order to reduce the damage and cope more aggressively to attack. In this paper, we propose a **system** which build honeypot farm using created **virtual** machine dynamically by utilizing honeypot to collect attack information and virtualization technology. The created **virtual** machines are managed by VMSC and protocol-based intrusion detection **system** which shows stable performance in mass traffic to attacker's intrusion detection is applied. Measurement of attack attempt and attack detection rate was measured to confirm the performance of the proposed **system** in this paper and the result of good performance through experiment was confirmed. [ABSTRACT FROM AUTHOR]; DOI: 10.1007/s11042-013-1487-8; (AN 109466507), Database: Applied Science & Technology Source

Subjects: Internet; **Computer** security; Intrusion detection **systems** (**Computer** security); **Computer** performance; Internet Publishing and Broadcasting and Web Search Portals; Wired Telecommunications Carriers; Honeypots (Network security)

PDF Full Text (834KB) USPTO Full Text Options

18. Patent Issued for Multi-Node **Virtual** Data Storage
Appliance With **Internal** Communications Filtering
(USPTO 10,291,708)

In: Information Technology Newsweekly. May 28, 2019, 4470; NewsRX LLC
Language: English. Abstract: 2019 MAY 28 (VerticalNews) -- By a News
Reporter-Staff News Editor at Information Technology Newsweekly -- A
patent by the inventors Lyon, Jared C. (Brighton, MA); De Smet, Jochen F.
[...] (AN: edsgcl.586730013), Database: Gale General OneFile

Subjects: Massachusetts; Data storage device; **Computer** storage devices
-- Intellectual property



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19. The Science DMZ: A network design pattern for data-intensive science.

By: Dart, Eli; Rotman, Lauren; Tiemey, Brian; Hester, Mary; Zurawski, Jason. *Scientific Programming*. 2014, Vol. 22 Issue 2, p173-185. 13p. Abstract: The ever-increasing scale of scientific data has become a significant challenge for researchers that rely on networks to interact with remote computing **systems** and transfer results to collaborators worldwide. Despite the availability of high-capacity connections, scientists struggle with inadequate cyberinfrastructure that cripples data transfer performance, and impedes scientific progress. The Science DMZ paradigm comprises a proven set of network design patterns that collectively address these problems for scientists. We explain the Science DMZ model, including network architecture, **system** configuration, cybersecurity, and performance tools, that creates an optimized network environment for science. We describe use cases from universities, supercomputing centers and research laboratories, highlighting the effectiveness of the Science DMZ model in diverse operational settings. In all, the Science DMZ model is a solid platform that supports any science workflow, and flexibly accommodates emerging network technologies. As a result, the Science DMZ vastly improves collaboration, accelerating scientific discovery. [ABSTRACT FROM AUTHOR] DOI: 10.1155/2014/701405. (AN: 96193780), Database: Academic Search Complete

Subjects: **COMPUTER** network architectures; **COMPUTER systems**; CYBERINFRASTRUCTURE; BIT rate; INTERNET security; WORKFLOW; Internet Publishing and Broadcasting and Web Search Portals; Wired Telecommunications Carriers; **Computer systems** design and related services (except video game design and development); **Computer Systems** Design Services

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20. **Computer and Information Security Handbook**

By: Vacca, John R. Series: The Morgan Kaufmann Series in **Computer Security**. Amsterdam : Morgan Kaufmann. 2009. eBook. Description: Presents information on how to analyze risks to your networks and the steps needed to select and deploy the appropriate countermeasures to reduce your exposure to physical and network threats. Also imparts the skills and knowledge needed to identify and counter some fundamental security risks and requirements, including Internet security threats and measures (audit trails IP sniffing/spoofing etc.) and how to implement security policies and procedures. In addition, this book covers security and network ... (AN 248988), Database: eBook Collection (EBSCOhost)

Subjects: **COMPUTERS** / Networking / General; **COMPUTERS** / Security / General; **Computer networks**--Security measures

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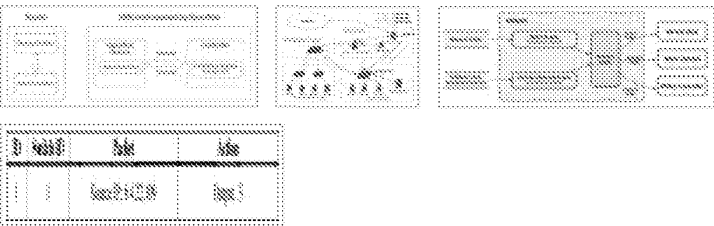
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21. Worm-Hunter: A worm guard **system** using software-defined networking

By: Hu, Yixun; Zheng, Kangfeng; Wang, Xu; Yang, Yixian. In: KSII Transactions on Internet and Information **Systems**. Jan 2017, Vol. 11 Issue 1, p484, 27 p.; KSII, the Korean Society for Internet Information Language: English. Abstract: Abstract Network security is rapidly developing, but so are attack methods. Network worms are one of the most widely used attack methods and have are able to propagate quickly. As [...] (AN: edsgcl487796795), Database: Gale Academic OneFile

Subjects: Virus; **Virtual** private network; Data security issue; **Computer** viruses -- Control; **Virtual** private networks -- Methods; Data security -- Methods; Honeypots (Data security) -- Methods

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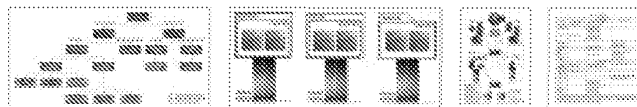
22. A Survey of Security Issues in Hardware Virtualization.

By: PÉK, GÁBOR; BUTTYÁN, LEVENTE; BENCSÁTH, BOLDIZSÁR. *ACM Computing Surveys*, Jun2013, Vol. 45 Issue 3, p40:1-40:34, 34p, 7

Diagrams, 2 Charts Abstract: Virtualization is a powerful technology for increasing the efficiency of computing services; however, besides its advantages, it also raises a number of security issues. In this article, we provide a thorough survey of those security issues in hardware virtualization. We focus on potential vulnerabilities and existing attacks on various virtualization platforms, but we also briefly sketch some possible countermeasures. To the best of our knowledge, this is the first survey of security issues in hardware virtualization with this level of details. Moreover, the adversary model and the structuring of the attack vectors are original contributions, never published before. [ABSTRACT FROM AUTHOR]; DOI: 10.1145/2480741.2480757; (AN 89005475), Database: Applied Science & Technology Source

Subjects: Computer input-output equipment; Computer security; Computer systems; Computing platforms; Vectors (Calculus); Computers; Computer Terminal and Other Computer Peripheral Equipment Manufacturing; Computer and peripheral equipment manufacturing; Computer, computer peripheral and pre-packaged software merchant wholesalers; Computer and Computer Peripheral Equipment and Software Merchant Wholesalers; Electronics Stores; Computer and software stores; Electronic Computer Manufacturing; Computer systems design and related services (except video game design and development); Computer Systems Design Services

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23. **Virtual LANs : A Guide to Construction, Operation, and Utilization**

By: Smith, Marina. Series: The McGraw-Hill Series on **Computer Communications**. New York : McGraw-Hill Professional. 1998. eBook. Description: Includes index. (AN 23083), Database: eBook Collection (EBSCOhost)

Subjects: **COMPUTERS** / Networking / Local Area Networks (LANs); **COMPUTERS** / Data Transmission **Systems** / Broadband; **COMPUTERS** / Data Transmission **Systems** / Wireless; Local area networks (**Computer networks**)--**Computer programs**; **Virtual computer systems**

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24. **Alan Simpson's Windows® XP Bible**

By: Simpson, Alan. Series: Bible. Edition: 2nd ed. Indianapolis, IN : Wiley. 2005. eBook. Description: If Windows XP can do it, you can do it too... Windows XP is the undisputed market leader among operating systems, and the enhancements and security improvements in Service Pack 2 made it even better. So if you already know how to turn on a PC and use a mouse, here's the place to learn how to use every fabulous feature of Windows XP. Let an expert show you the new security features and help you customize your Windows, manage files, go online safely, work with digital media, set up a network, and solve ... (AN 127314), Database: eBook Collection (EBSCOhost)

Subjects: **COMPUTERS** / Operating **Systems** / Windows Desktop; Operating **systems (Computers)**

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25. Essential **System** Administration

By: Frisch, AEleen. Series: A Nutshell Handbook. Edition: 2nd ed.
Sebastopol, CA : O'Reilly Media. 1995. eBook. (AN 24420), Database:
eBook Collection (EBSCOhost)

Subjects: **COMPUTERS** / **System** Administration / Linux & UNIX
Administration; Operating **systems (Computers)**

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26. The Internet Adopts Two-Way Radio

By: Perritt, Henry H. Jr.. In: Hastings Science and Technology Law Journal,
Vol. 10, Issue 2 (Summer 2019), pp. 147-228 (AN:
edshol.hein.journals.hascietlj10.9), Database: HeinOnline

Subjects: California; Health and Safety **Computers**/Technology Public Law
and Policy Technology/**Computers**

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27. 'Configurable Internet Isolation And Security For Laptops And Similar Devices' in Patent Application Approval Process (USPTO 20190121961)

In: Information Technology Newsweekly. May 14, 2019, 1146; NewsRX LLC
Language: English. Abstract: 2019 MAY 14 (VerticalNews) -- By a News
Reporter-Staff News Editor at Information Technology Newsweekly -- A
patent application by the inventors Coleman, Glenn (Berwyn, PA); Martz,
Peter (Marlton, NJ); [...] (AN: edsgcl.585176527), Database: Gale General
OneFile

Subjects: United States; Telecommunications equipment industry; Internet
security; Laptop/portable **computer**; L3 Technologies, Inc. -- Intellectual
property; Telecommunications equipment industry -- Intellectual property;
Internet -- Safety and security measures; Laptop **computers**; Notebook
computers



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28. A Delay-Based Countermeasure Against the
Discovery of Default Rules in Firewalls.

By: Sattar, K.; Salah, K.; Sqalli, M.; Rafiq, R.; Rizwan, M. *Arabian Journal for Science & Engineering (Springer Science & Business Media B.V.)*.

Feb2017, Vol. 42 Issue 2, p833-844. 12p. Abstract: Denial of service (DoS) attack is purely malicious and commonly used to overwhelm a network system making network resources unavailable to legitimate users. One such DoS attack is to target the firewall system of the enterprise, whereby the attacker sends a large number of malicious packets to the firewall making it unavailable for the legitimate users. To launch a smart and effective DoS attack, an attacker makes priori assumption about the order of the ruleset of the firewall. An effective firewall does not reveal its ruleset, policies, or information to the attacker. In this paper, we first present a process that can be used by an attacker to reconnoiter a firewall system at leisure to collect information about ruleset of a target firewall. The collected information can be used by the attacker to launch a slow-rate DoS attack against the firewall. We then propose a countermeasure technique 'Delay Induced Response (DIR)' which utilizes the underlying principle of moving target defense as a cyber maneuver technique. In DIR, the network frequently changes its properties visible to the attacker in order to confuse the attacker from discovering information about the firewall policy or its ruleset. The primary objective in DIR is to delude the attacker in his efforts in discovering the order of the firewall ruleset-specifically, the last matching rule (also known as the 'default rule') in a firewall. [ABSTRACT FROM AUTHOR] DOI: 10.1007/s13369-016-2359-0. (AN: 121237447). Database: Academic Search Complete

Subjects: FIREWALLS (Computer security); MALICIOUS accusation; INFORMATION theory; DENIAL of service attacks; COMPUTER network security

PDF Full Text (1.5MB) USPTO Full Text Options

29. Hybrid file systems

By: International Business Machines Corporation. US Patent: 9,454,670.
Filed: December 03, 2012. Issued: September 27, 2016. , Database: USPTO
Patent Grants

Abstract: Systems and computer program products may provide a virtual system with direct access to one or more sectors of a resource of a computer system. The system and computer program products may include providing, by a computer system to a virtual system, first access control data associated with a regular computer file that corresponds to a resource on the computer system. The system and computer program products may additionally include receiving, at the computer system, a direct read from or direct write to one or more sectors of the resource represented by the regular computer file from the virtual system. The system and computer program products may further include hiding, at the computer system, a hidden computer file from the virtual system. The system and computer program products may additionally include routing, at the computer system, the direct read from or direct write to the hidden computer file on the computer system.

AN: edspgr.09454670

USPTO Full Text Options

30. Hybrid file systems

By: International Business Machines Corporation. US Patent: 9,471,802.
Filed: October 28, 2013. Issued: October 18, 2016. , Database: USPTO
Patent Grants

Abstract: Methods may provide a virtual system with direct access to one or more sectors of a resource of a computer system. The method may include providing, by a computer system to a virtual system, first access control data associated with a regular computer file that corresponds to a resource on the computer system. The method may additionally include receiving, at the computer system, a direct read from or direct write to one or more sectors of the resource represented by the regular computer file from the virtual system. The method may further include hiding, at the computer system, a hidden computer file from the virtual system. The method may additionally include routing, at the computer system, the direct read from or direct write to the hidden computer file on the computer system.

AN: edspgr.09471802

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1. Patent Application Titled 'Specially Programmed Computing Systems With Associated **Devices Configured To Implement** Centralized Services Ecu Based On Services Oriented Architecture And Methods Of Use Thereof Published Online (USPTO 20190155650)

In: Computer Weekly News. June 12, 2019, 4072; NewsRX LLC Language: English. Abstract: 2019 JUN 12 (VerticalNews) -- By a News Reporter-Staff News Editor at Computer Weekly News -- According to news reporting originating from Washington, D.C., by VerticalNews journalists, a patent application [...] (AN: edsgcl.588203953), Database: Gale General OneFile

Subjects: Application programming interface; Application Programming Interface -- Methods

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2. Patent Application Titled 'Specially Programmed Computing Systems With Associated **Devices Configured To Implement** Centralized Services Ecu Based On Services Oriented Architecture And Methods Of Use Thereof Published Online (USPTO 20180349192)

In: Information Technology Newsweekly. Dec 25, 2018, 3783; NewsRX LLC Language: English. Abstract: 2018 DEC 25 (VerticalNews) -- By a News Reporter-Staff News Editor at Information Technology Newsweekly -- According to news reporting originating from Washington, D.C., by VerticalNews journalists, a patent application [...] (AN: edsgcl.566846508), Database: Gale General OneFile

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3. Patent Issued for Specially Programmed Computing Systems With Associated **Devices Configured To Implement** Centralized Services ECU Based On Services Oriented Architecture And Methods Of Use (USPTO 10,191,777)

In: Journal of Engineering. Feb 11, 2019, 12962; NewsRX LLC Language: English. Abstract: 2019 FEB 11 (VerticalNews) -- By a News Reporter-Staff News Editor at Journal of Engineering -- From Alexandria, Virginia, VerticalNews journalists report that a patent by the inventors Teshler, Dionis [...] (AN: edsgcl.57569763f), Database: Gale Academic OneFile

Subjects: Application programming interface; Application Programming Interface -- Methods; Application Programming Interface -- Reports; Periodical publishing -- Intellectual property; Periodical publishing -- Methods; Periodical publishing -- Reports

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4. Patent Application Titled 'Specially Programmed Computing Systems with Associated **Devices Configured to Implement** Centralized Services Ecu Based on Services Oriented Architecture and Methods of Use Thereof Published Online (USPTO 20180189103)

In: Computer Weekly News. August 1, 2018, 2727; NewsRX LLC Language: English. Abstract: 2018 AUG 1 (VerticalNews) -- By a News Reporter-Staff News Editor at Computer Weekly News -- According to news reporting originating from Washington, D.C., by VerticalNews journalists, a patent application [...] (AN: edsgcl.548089192), Database: Gale General OneFile

Subjects: Application programming interface; Patent/copyright issue; Application Programming Interface -- Methods; Patents -- Methods

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5. Researchers Submit Patent Application, 'Method For Transmitting At Least One Ip Data Packet, Related System And Computer Program Product', for Approval (USPTO 20190052599)

In: Information Technology Newsweekly. March 5, 2019, 2608; NewsRX LLC
Language: English. Abstract: 2019 MAR 5 (VerticalNews) -- By a News
Reporter-Staff News Editor at Information Technology Newsweekly -- From
Washington, D.C., VerticalNews journalists report that a patent application by
the inventor Caserta, [...] (AN: edsgcl576714280), Database: Gale General
OneFile

Subjects: Bridge/router; Internetworking **device**; ISDN router; Bridge/routers
-- Intellectual property; Bridge/routers -- Methods

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6. The Separation of Platforms and Commerce

By: Khan, Lina M.. In: Columbia Law Review, Vol. 119, Issue 4 (May 2019),
pp. 973-1098 (AN: edshol.hein.journals.clr119.26), Database: HeinOnline

Subjects: New York; General

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7. Bank-Customer Relationship and Provision of Quality Electronic Banking Services in Nigeria

By: Olowokere, Emmanuel Nimbe; Olufunmilayo, Adedeji, Abosede. In:
Journal of Law, Policy and Globalization, Vol. 80, Issue 1 (2018), pp. 133-
145 (AN: edshol.hein.journals.jawpglob80.18), Database: HeinOnline

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8. Toying with Privacy: Regulating the Internet of Toys

By: Haber, Eldar. In: Ohio State Law Journal, Vol. 80, Issue 3 (2019), pp. 399-454 (AN: *edshol.hein.journals.ohslj80.19*), Database: HeinOnline

Subjects: Ohio; General



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9. Head in the Clouds, Head in the Sand: Federal Failure to Update Guidance on Computer Transactions in an International Context

By: Weaver, Logan S.. In: Washington Law Review, Vol. 93, Issue 4 (December 2018), pp. 2213-2246 (AN: *edshol.hein.journals.washlr93.5f*), Database: HeinOnline

Subjects: Washington; General

PDF Full Text USPTO Full Text Options

10. Complete Book of Remote Access : Connectivity and Security

By: Kasacavage, Victor. Series: The Auerbach Best Practices Series. Boca Raton, Fla : Auerbach Publications. 2003. eBook. Description: As technology advances, the demand and necessity for seamless connectivity and stable access to servers and **networks** is increasing exponentially. Unfortunately the few books out there on remote access focus on Cisco certification preparation, **one** aspect of **network** connectivity or security. This text covers both-the enabling technology and how to make remote access secure. The definitive resource for **network** administrators and IT professionals implementing and maintaining remote access systems, The ... (AN 135484), Database: eBook Collection (EBSCOhost)

Subjects: COMPUTERS / Networking / General; COMPUTERS / Security / General; Computer **networks**--Remote access; Computer **networks**--Security measures

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11. Cloud and Cluster Computing

By: Berman, Nan; Rivero, Georgetta. Delhi : Academic Studio. 2012. eBook. Description: Chapter 1 - Enzyme Assay Chapter 2 - Alkaline Phosphatase and Alanine Transaminase Chapter 3 - Amylase and Ceruloplasmin Chapter 4 - Glucose Chapter 5 - Bilirubin Chapter 6 - Human Chorionic Gonadotropin Chapter 7 - Biomarker Chapter 8 - Mass Spectrometry Chapter 9 - C--reactive Protein Chapter 10 - Ferritin Chapter 11 - DNA Assay Chapter 12 - Protein Assay Chapter 13 - Drug Test Chapter 14 - Clonogenic Assay and Bacteriological Water Analysis Chapter 15 - Immunostaining Chapter 16 - MTT Assay, Nuclear ... (AN 446437), Database: eBook Collection (EBSCOhost)

Subjects: COMPUTERS / Web / General; COMPUTERS / Networking / Intranets & Extranets; Cloud computing

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12. **Innovations, Standards, and Practices of Web Services : Emerging Research Topics**

By: Zhang, Liang-Jie. Hershey, PA : IGI Global. 2012. eBook. Description: 'This book provides a vital new compendium of the latest research topics in the field of **Web** services, detailing the functions of service composition, and the most relevant models that modify its construction'-- (AN 396409), Database: eBook Collection (EBSCOhost)

Subjects: COMPUTERS / Computerized Home & Entertainment; **Web** services

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13. **Materials and the Environment : Eco-informed Material Choice**

By: Ashby, M. F. Edition: 2nd ed. Burlington : Butterworth-Heinemann. 2012. eBook. Description: Materials and the Environment: Eco-Informed Material Choice, Second Edition, is the first book devoted solely to the environmental aspects of materials and their selection, production, use and disposal, by **one** of the world's foremost materials authorities. It explores human dependence on materials and its environmental consequences and provides perspective, background, methods, and data for thinking about and designing with materials to minimize their environmental impact. Organized into 15 chapters, ... (AN 453829), Database: eBook Collection (EBSCOhost)

Subjects: TECHNOLOGY & ENGINEERING / Materials Science / General; NATURE / Environmental Conservation & Protection; Materials-- Environmental aspects

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14. Computer and Information Security Handbook

By: Vacca, John R. Series: The Morgan Kaufmann Series in Computer Security. Amsterdam : Morgan Kaufmann. 2009. eBook. Description: Presents information on how to analyze risks to your **networks** and the steps needed to select and deploy the appropriate countermeasures to reduce your exposure to physical and **network** threats. Also imparts the skills and knowledge needed to identify and counter some fundamental security risks and requirements, including Internet security threats and measures (audit trails IP sniffing/spoofing etc.) and how to **implement** security policies and procedures. In addition, this book covers security and **network** ... (AN 248986), Database: eBook Collection (EBSCOhost)

Subjects: COMPUTERS / Networking / General; COMPUTERS / Security / General; Computer **networks**--Security measures

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15. Renewable and Sustainable Energy II

By: Ren, Nanqi. Series: Advanced Materials Research, v. 512-515. Dürnten-Zürich, Switzerland : Trans Tech Publications. 2012. eBook. Description: This special collection contains selected papers from the International Conference on Energy and Environmental Protection (ICEEP 2012), held on the 23rd and 24th June, 2012, in Hohhot, China. The 590 peer-reviewed papers cover a wide area and are divided into: Chapter 1: Development and Utilization of Solar Energy; Chapter 2: Development and Utilization of Biomass Energy; Chapter 3: Development and Utilization of Wind Energy; Chapter 4: Nuclear Energy and other Energy Sources; Chapter 5: Energy Storage ... (AN 517227), Database: eBook Collection (EBSCOhost)

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16. **Google Apps : Mastering Integration and Customization: Scale Your Applications and Projects Onto the Cloud with Google Apps**

By: Morel, Médéric. Birmingham [U.K.] : Packt Publishing, 2011. eBook.

Description: This is a practical hands-on book with clear instructions and lot of code examples. It takes a simple approach, guiding you through different architectural topics using realistic sample projects. A single project is implemented using different architectural styles to make the reader understand the details of each style. There are also many small independent code samples to explain design patterns, WCF, and localization. This book is for people familiar with the ASP.NET framework using either C# or ... (AN 390160), Database: eBook Collection (EBSCOhost)

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17. Handbook of Green Information and Communication Systems

By: Woungang, Isaac; Anpalagan, Alagan; Obaidat, Mohammad S.
Amsterdam : Academic Press. 2013. eBook. Description: This book gives a comprehensive guide on the fundamental concepts, applications, algorithms, protocols, new trends and challenges, and research results in the area of Green Information and Communications Systems. It is an invaluable resource giving knowledge on the core and specialized issues in the field, making it highly suitable for both the new and experienced researcher in this area. Key Features: Core research topics of green information and communication systems are covered from a network ... (AN 485200), Database: eBook Collection (EBSCOhost)

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18. Handbook of Server and Middleware Computing

By: Roundtree, Clarissa; Watt, Elwood. Delhi : Academic Studio. 2012. eBook. Description: Chapter 1 - Introduction to Sedimentology Chapter 2 - Clastic Rock Chapter 3 - Sedimentary Structures Chapter 4 - Aeolian Processes Chapter 5 - Limestone Chapter 6 - Angoumian Chapter 7 - Introduction to Mineralogy Chapter 8 - History of Mineralogy Chapter 9 - Physical Mineralogy (AN 446642), Database: eBook Collection (EBSCOhost)

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19. Intelligent Transportation Systems

By: Pringle, Drew. Edition: 1st ed. Delhi : Research World. 2012. eBook.
Description: Chapter 1 - Intelligent Transportation System Chapter 2 - Traffic Enforcement Camera Chapter 3 - Intelligent Speed Adaptation Chapter 4 - Vehicle Infrastructure Integration Chapter 5 - Traffic Signal Preemption Chapter 6 - Speed Limit Chapter 7 - National Transportation Communications for Intelligent Transportation System Protocol Chapter 8 - Active Traffic Management and Traffic Camera Chapter 9 - STREAMS Integrated Intelligent Transport System and Urban Traffic Management and Control Chapter 10 ... (AN 396959), Database: eBook Collection (EBSCOhost)

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20. Sustainable ICTs and Management Systems for Green Computing

By: Kaabouch, Naima; Hu, Wen Chen. Hershey, PA : IGI Global. 2012. eBook. Description: 'This book focuses on information technology using sustainable green computing to reduce energy and resources used'-- Provided by publisher. (AN 458135), Database: eBook Collection (EBSCOhost)

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21. Advances in Enterprise Information Technology Security

By: Herrmann, Francine; Khadraoui, Djamel. Hershey [Pa.] : IGI Global. 2007. eBook. Description: 'This book provides a broad working knowledge of all the major security issues affecting today's enterprise IT activities. Multiple techniques, strategies, and applications are thoroughly examined, presenting the tools to address opportunities in the field. It is an all-in-one reference for IT managers, network administrators, researchers, and students'--Provided by publisher. (AN 185367), Database: eBook Collection (EBSCOhost)

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22. Firewalls : 24seven

By: Strebe, Matthew; Perkins, Charles. Edition: 2nd ed. San Francisco : Sybex. 2002. eBook. Description: Includes index. (AN 92877), Database: eBook Collection (EBSCOhost)

Subjects: COMPUTERS / Security / General; Computer networks--Security measures; Computers--Access control; **Firewalls** (Computer security)

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23. Human Computer Interaction Handbook :
Fundamentals, Evolving Technologies, and
Emerging Applications, Third Edition

By: Jacko, Julie A. Series: Human Factors and Ergonomics. Edition: 3rd ed.
Boca Raton : CRC Press. 2012. eBook. Description: Winner of a 2013
CHOICE Outstanding Academic Title Award The third edition of a
groundbreaking reference, The Human-Computer Interaction Handbook:
Fundamentals, Evolving Technologies, and Emerging Applications raises the
bar for handbooks in this field. It is the largest, most complete compilation of
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24. Encyclopedia of Portal Technologies and Applications

By: Tatriail, Arthur. Hershey, PA : IGI Global. 2007. eBook. Description: 'This book offers complete coverage of the nature, characteristics, advantages, limitations, design, and evolution of **Web** portals. Other topics include semantic portals, philosophical portal issues, and personal portals. This authoritative encyclopedia encompasses the economics of setting up and using personal portals, knowledge management, strategic planning, user acceptance, security and the law'--Provided by publisher. (AN 181467), Database: eBook Collection (EBSCOhost)

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25. Distributed **Network** Systems : From Concepts to Implementations

By: Jia, Weijia; Zhou, Wanlei. Series: Network Theory and Applications, v. 15. New York : Springer. 2005. eBook. Description: This textbook covers both theoretical and practical aspects of distributed computing. It describes the client-server model for developing distributed **network** systems, the communication paradigms used in a distributed **network** system, and the principles of reliability and security in the design of distributed **network** systems. Based on theoretical introductions, the book presents various implementation strategies and techniques for building distributed **network** systems, including examples in TCP/IP communications, ... (AN 130165), Database: eBook Collection (EBSCOhost)

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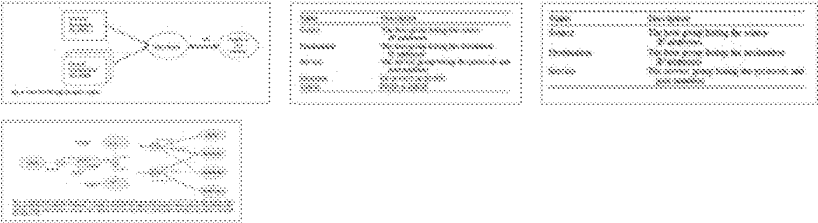
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26. Offline firewall analysis.

By: Mayer, Alain; Wool, Avishai; Ziskind, Elisha. *International Journal of Information Security*. Jul2006, Vol. 5 Issue 3, p125-144. 20p. 3 Black and White Photographs, 4 Diagrams, 7 Charts. Abstract: Practically every corporation that is connected to the Internet has at least one firewall, and often many more. However, the protection that these firewalls provide is only as good as the policy they are configured to implement. Therefore, testing, auditing, or reverse-engineering existing firewall configurations are important components of every corporation's network security practice. Unfortunately, this is easier said than done. Firewall configuration files are written in notoriously hard to read languages, using vendor-specific GUIs. A tool that is sorely missing in the arsenal of firewall administrators and auditors is one that allows them to analyze the policy on a firewall. To alleviate some of these difficulties, we designed and implemented two generations of novel firewall analysis tools, which allow the administrator to easily discover and test the global firewall policy. Our tools use a minimal description of the network topology, and directly parse the various vendor-specific low-level configuration files. A key feature of our tools is that they are passive: no packets are sent, and the analysis is performed offline, on a machine that is separate from the firewall itself. A typical question our tools can answer is "from which machines can our DMZ be reached, and with which services?" Thus, our tools complement existing vulnerability analyzers and port scanners, as they can be used before a policy is actually deployed, and they operate on a more understandable level of abstraction. This paper describes the design and architecture of these tools, their evolution from a research prototype to a commercial product, and the lessons we have learned along the way. [ABSTRACT FROM AUTHOR] DOI: 10.1007/s10207-005-0074-z. (AN: 21154289), Database: Computer Source

Subjects: FIREWALLS (Computer security); COMPUTER network security; INTERNET protocols; COMPUTER security; INTERNET; COMPUTER systems

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27. **Wireless Technologies : Concepts, Methodologies, Tools and Applications**

By: Information Resources Management Association. Hershey, PA : IGI Global. 2012. eBook. (AN 396408), Database: eBook Collection (EBSCOhost)

Subjects: TECHNOLOGY & ENGINEERING / Mobile & Wireless Communications; TECHNOLOGY & ENGINEERING / Radio; Wireless communication systems; Telecommunication

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28. **Encyclopedia of Internet Technologies and Applications**

By: Periera, Manuela; Freire, Mário Marques. Hershey : IGI Global. 2008. eBook. Description: 'This book is the single source for information on the world's greatest network, and provides a wealth of information for the average Internet consumer, as well as for experts in the field of networking and Internet technologies. It provides the most thorough examination of Internet technologies and applications for researchers in a variety of related fields'--Provided by publisher. (AN 203726), Database: eBook Collection (EBSCOhost)

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29. Internet sharing in community networks

By: Dimogerontakis, Emmanouil. In: TDX (Tesis Doctorals en Xarxa); Universitat Politècnica de Catalunya, 2017. Language: English. Abstract: The majority of the world's population does not have any or adequate Internet access. This implies that the Internet cannot provide universal service, reaching everyone without discrimination. Global access to the Internet for all requires the expansion of **network** infrastructures and a dramatic reduction in Internet access costs especially in less developed geographical regions. Local communities come together to build their own **network** infrastructures, known as Community **Networks**, and provide accessible and affordable local and Internet inter-networking. Sharing resources, such as infrastructure or Internet access, is encouraged at all levels, in order to lower the cost of connectivity and services. Communities can develop their own **network** infrastructures as a commons, using several interconnected sub-**networks** when the scale requires it, and sharing several Internet gateways among their participants. Shared Internet access is offered through **web proxy** gateways, where individuals or organisations share the full or spare capacity of their Internet connections with other participants. However, these gateway nodes may be overloaded by the demand, and their Internet capacity may degrade due to lack of regulation. This thesis investigates whether shared Internet access in community **networks** can be utilized to provide universal Internet access. As a first step in this direction, in this thesis we explored characteristics, limitations and usability of a concrete shared Internet **Web proxy** service in community **networks**. Based on our findings we studied and proposed mechanisms to improve the user experience and fairness of Internet sharing **Web proxy** services in community **networks**, without introducing significant overhead to the **network** and other services. More specifically, we proposed a scalable client-side Internet gateway selection mechanism suitable for heterogeneous environments such as community **networks**. Finally, we studied and proposed techniques for sharing spare Internet capacity without deteriorating the contributors' performance. / La mayoría de la población mundial no tiene ningún o un adecuado acceso a Internet. Esto implica que Internet no puede prestar un servicio universal, llegando a todos sin discriminación. El acceso global a Internet para todos requiere una drástica reducción de los costos de acceso a Internet, especialmente en zonas geográficas y poblaciones menos desarrolladas. Las comunidades locales se organizan para construir sus propias infraestructuras de red, conocidas como redes comunitarias, y proporcionan interconexión local y con Internet de forma accesible y asequible. Se fomenta la compartición de recursos, como la infraestructura o el acceso a Internet, para reducir el coste de la conectividad y los servicios. Las comunidades pueden desarrollar sus propias infraestructuras de red como un recurso común, utilizando varias subredes interconectadas dado su

tamaño, y compartiendo varias pasarelas de Internet entre sus participantes. El acceso compartido a Internet se ofrece a través de pasarelas que son **proxy web**, donde los participantes o las organizaciones comparten la capacidad total o excedente de su conexión a Internet con otros participantes. Sin embargo, estas pasarelas pueden saturarse por la demanda, y su capacidad de acceso a Internet se puede degradar debido la falta de regulación. Esta tesis investiga si las redes comunitarias se pueden utilizar para proporcionar acceso universal a Internet. Como primer paso en esta dirección, exploramos las características, limitaciones y usabilidad de un servicio concreto de acceso compartido a Internet con **proxies web** en una red comunitaria. Sobre la base de nuestros hallazgos, estudiamos y proponemos mecanismos para mejorar la experiencia del usuario y la equitatividad de la compartición, sin introducir una sobrecarga significativa en la red y a otros servicios. Más específicamente, proponemos un mecanismo escalable de selección de pasarela a Internet del lado del cliente, adecuado para entornos heterogéneos como las redes comunitarias. Además, estudiamos y proponemos técnicas para compartir la capacidad de Internet sin deteriorar el desempeño de los participantes que contribuyen. (AN: *edstdx.10803.406353*), Database: TDX

Subjects: Àrees temàtiques de la UPC::Informàtica

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30. **Recoding Gender : Women's Changing
Participation in Computing**

By: Abbate, Janet. Series: History of Computing. Cambridge, Mass : The MIT Press. 2012. eBook. Description: The untold history of women and computing: how pioneering women succeeded in a field shaped by gender biases. Today, women earn a relatively low percentage of computer science degrees and hold proportionately few technical computing jobs. Meanwhile, the stereotype of the male "computer geek" seems to be everywhere in popular culture. Few people know that women were a significant presence in the early decades of computing in both the United States and Britain. Indeed, programming in postwar years was ... (AN 497022), Database: eBook Collection (EBSCOhost)

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Probabilistic Flow Management

www.google.com/patents/US20140365418


App. - Filed Jun 5, 2013 - Published Dec 11, 2014 - Clinton Grant - Cisco Technology, Inc.
 If the number of **untrusted** flow objects exceeds the lower limit and prior to ... **destination** ...
 is a block diagram of an example router **configured to implement** the ... As such, in
 conventional networking devices, there is a potential that one ... a processor coupled to
 the one or more network interface ports and ...

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System for packet filtering of data packet at a computer ...

www.google.com/patents/US5884025


Grant - Filed Feb 4, 1997 - Issued Mar 16, 1999 - Geoffrey G. Baehr - Sun Microsystems, Inc.
 The proxy network is isolated from the private network, so it cannot be used as a jumping ...
 or typically a processor with associated memory) 150 which controls network ... If the
 packet's intended destination is a host machine on the private networks, ... 1 is a block
 diagram of a system connecting two computer networks via a ...

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Method, apparatus and computer program product for a network ...

www.google.com/patents/US7823195


Grant - Filed Aug 20, 2007 - Issued Oct 26, 2010 - Ken Xie - Juniper Networks, Inc.
 A packet switch communication system includes a network of one or more routers
 connecting a plurality of users. A packet is the fundamental unit of transfer in ...

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Multi-level security network system

www.google.com/patents/US7069437


Grant - Filed Aug 22, 2001 - Issued Jun 27, 2006 - Timothy C. Williams - Cryptek, Inc.
 The security devices are interposed between each of workstation, including the ... The result
 is trusted access to multiple secure Virtual Private Networks (VPN), ... computer systems,
 without networking, at a time when the Internet was ... isolate ... Security Officer to
 configure and audit the operation of the secure network 10.

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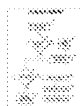
Apparatus and method for securing and isolating operational ...

www.google.com/patents/US20110113230


App. - Filed Nov 11, 2010 - Published May 12, 2011 - Daniel Kaminsky - Daniel Kaminsky
 Pre-boot data is then requested from the operational node motherboard and is ... more ... 3
 illustrates a network implementation of the split brain computer system of ... be
 appreciated that the processing system 100 may be a part of a networked ... 100, or
 portions thereof, may be stored in a remote memory storage device

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Systems and methods for transparent configuration ...

www.google.com/patents/US20040083369


App. - Filed Jul 25, 2003 - Published Apr 29, 2004 - Ulfar Erlingsson - Ulfar Erlingsson
 At the transmitting device, a stream of watermark bits is generated. ... Methods and
 systems are disclosed for providing secure transmissions across a network ...

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Network Virtualization

www.google.com/patents/US20070280243


App. - Filed Aug 3, 2005 - Published Dec 6, 2007 - Michael Wray - Hewlett-Packard
 Development Company, L.P.
 In attempting to use virtual machines to build computing systems, one of the problems is
 that current virtual machine technology does not virtualize the network

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Systems and methods for efficient memory access

www.google.com/patents/US9078735


Grant - Filed Aug 27, 2012 - Issued Jul 7, 2015 - Alexander I. Tomlinson - Breakingpoint
 Systems, Inc.

11/7/2019

device comprises a processor and a memory configured to implement network isolation between one or more untrusted network destinati...

 A computer-implemented method of accessing data comprises resetting the value of a ... on the first processing core a first instruction referencing memory at a virtual ... of a communications network and/or one or more network devices using a ... Illustrates an example configuration of a network testing system, according to an ...
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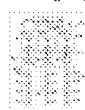
Remote monitoring for networked fluid infusion systems

www.google.com/patents/US7942344

 Grant - Filed Apr 23, 2006 - Issued May 17, 2011 - Sheldon B. Moberg - Medtronic Minimed, Inc.
The body network devices can be configured to support communication of status ... More particularly, embodiments of the present invention relate to systems and ...
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Partitioning in distributed computer system

www.google.com/patents/US7103626

 Grant - Filed May 24, 2000 - Issued Sep 5, 2006 - Renato J. Recio - Hewlett-Packard Development, L.P.
I/O adapters, communicate via buses attached to processor-memory ... 1 is a diagram of a distributed computer system for implementing the present invention. ... 40 to another link 40 within a subnet using a small header destination ID field. ... The unreliable datagram service accordingly operates with less state ... isolation ...
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computer system comprising a host system and a virtual system



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Memory transformation in virtual machine live migrationwww.google.com/patents/US9563569

Grant - Filed Jan 28, 2014 - Issued Feb 7, 2017 - Michael Tsirkin - Red Hat Israel, Ltd.
 An example method may comprise: receiving, by a computer system, ... 125A, 125B running on host computer systems 100A, 100B may perform virtual machine ...
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A method and system for virtual machine migrationwww.google.com/patents/CA2588486C?cl=en

Grant - Filed May 15, 2007 - Issued Nov 17, 2015 - Anthony Richard Phillip White - Embotecs Corporation
 Virtual machines (VM) technology allows multiple operating systems each deploying multiple applications to run ... Computing ... The step (b) of the method further comprises: (d) queuing events to be processed at the source host; (e) sending ...
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Systems and methods for development of emulated devices in a ...www.google.com/patents/US20060004554

App. - Filed Jun 30, 2004 - Published Jan 5, 2006 - Rene Vega - Microsoft Corporation
 3B illustrates an alternative embodiment of a virtualized computing system comprising a virtual machine monitor running alongside a host operating system...
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System and method to enhance memory protection for programs ...www.google.com/patents/US8327059

Grant - Filed Sep 30, 2009 - Issued Dec 4, 2012 - Xiaoxin Chen - VMware, Inc.
 in a computer system supporting execution of virtualization software and at least one instance of virtual system hardware, an interface is provided into the virtualization software to allow a program to directly define the access ... host ... comprise ...
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A computer system and method for controlling and/or ...www.google.com/patents/WO2011150929A1?cl=en

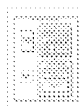
App. - Filed May 27, 2011 - Published Dec 8, 2011 - Tage Kristensen - Vestas Wind Systems A/S
 The invention relates to a wind power computer system (50) comprising a first ... as a host server, the hypervisor 40, and a plurality of virtual computer systems ...
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Memory duplication by destination host in virtual machine ...www.google.com/patents/US9458902

Grant - Filed Aug 16, 2013 - Issued Oct 4, 2016 - Karen Noel - Red Hat Israel, Ltd.
 An example method may comprise: receiving, by a hypervisor executing on a destination host computer system, a first virtual address and a corresponding ...
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Systems and methods for providing seamless software ...www.google.com/patents/US8972977

Grant - Filed Jun 30, 2004 - Issued Mar 3, 2015 - Mike Neil - Microsoft Technology Licensing, LLC
 3B illustrates an alternative embodiment of a virtualized computing system comprising a virtual machine monitor running alongside a host operating system...
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Providing security for a virtual machine by selectively ...www.google.com/patents/US8572741

Grant - Filed Oct 14, 2010 - Issued Oct 29, 2013 - Constantine P. Sapuntzakis - Moka5, Inc.
 During operation, the system receives a command to commence execution of the ... the system causes a security scan to be performed on the host system to ... computer with a compatible virtual machine monitor (also referred to as a ...). A method for protecting an application from malware on a host system, comprising...
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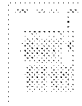
Virtual operating system device communication relying on ...

www.google.com/patents/US20060259292

App. - Filed May 12, 2005 - Published Nov 16, 2006 - Andrew Solomon - Microsoft Corporation

However, to enable emulation of the host hardware, computer game systems, ... From a conceptual perspective, computer systems generally comprise one or ...
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Computer system comprising a plurality of terminal computers ...

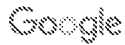
www.google.com/patents/US5533191

Grant - Filed May 4, 1995 - Issued Jul 2, 1996 - Tadayoshi Nakano - Nec Corporation

In a computer system comprising a host computer and a plurality of terminal computers connected to the host computer, the host computer comprises a ...
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Method and system for testing internet software

www.google.com/patents/US7925692


Grant - Filed Jan 15, 2007 - Issued Apr 12, 2011 - Stephen Dunagan - Microsoft Corporation
 ... internet has communications pathways between two **firewall devices**, a **web proxy** ... One or more test client machines on the corporate **network** are configured to ... (d) configuring at least one test client machine to use said test web proxy to ...
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System and method for implementing a private virtual ...

www.google.com/patents/US20060230431

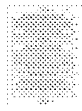

App. - Filed Mar 31, 2005 - Published Oct 12, 2006 - Brian Jernes - Jernes Brian L
 Each of the plurality of **network control points** is connected to at least one of the plurality of **network bubbles**. Each **network control point device** is configured to ...
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Systems, methods, and apparatus to monitor mobile internet ...

www.google.com/patents/CA2781018C?cl=en


Grant - Filed Jun 27, 2012 - Issued Dec 22, 2015 - Archilleas Papakostas - The Nielsen Company (Us), Llc
 An example method comprises assigning with a processor a first port ... port number to be used by the mobile device when accessing a wireless **network** via a ...
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Transparent proxy of encrypted sessions

www.google.com/patents/US8564822


Grant - Filed Jul 3, 2012 - Issued Aug 5, 2013 - Jianxin Wang - Cisco Technology, Inc.
 In one embodiment, a **proxy device** located between a first device and a second device ... Often, the **firewalls** may also be configured to perform deep packet ...
[Overview](#) [Related](#) [Discuss](#)

Creating a web proxy inside a browser

www.google.com/patents/VWO2013191881A1?cl=en


App. - Filed Jun 3, 2013 - Published Dec 27, 2013 - Rita H. Wouhaybi - Intel Corporation
 In one example, the first remote device is unauthorized with respect to the ... 1 is a block diagram of an example of a private **proxy network** according to an embodiment; FIG. ... The method 40 may be implemented as a set of logic and/or firmware ... The processor core 200 may be a single-threaded core or, for at least one ...
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Efficient transmission of IP data using multichannel SOCKS ...

www.google.com/patents/US20030177384


App. - Filed Mar 14, 2002 - Published Sep 18, 2003 - Douglas Jones - International Business Machines Corporation
ABSTRACT In a data communications **network**, a split **proxy** can include a ... in the client computing device, and a split **proxy server** interface to at least one ... Notably advantages of a **SOCKS proxy implementation** include transparent **network** ... **proxy server configuration** can reduce traffic flow between an internet based ...
[Overview](#) [Related](#) [Discuss](#)

Device authentication using device-specific proxy addresses

www.google.com/patents/US8893255

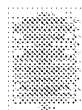

Grant - Filed Oct 23, 2013 - Issued Nov 18, 2014 - Paul Michael Martini - iboss, Inc.
 One example method includes associating a particular **proxy network address** with a ... In such an implementation, the **Internet** 150 may be public, private, or a ...
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Distributed firewall implementation and control

www.google.com/patents/US20070261111


App. - Filed May 5, 2006 - Published Nov 8, 2007 - David Roberts - Microsoft Corporation
 One or more devices on a **network** may be configured to provide **firewall** services for ... If the **network** is the Internet, the attacks may include a range of acts from ...
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Transparent proxy of encrypted sessions

www.google.com/patents/US8214635

Grant - Filed Nov 28, 2006 - Issued Jul 3, 2012 - Jianxin Wang - Cisco Technology, Inc.
In one embodiment, a server and a client are configured to trust a certificate of ... firewalls are **devices** in computer networks that are **configured to apply one or** ... the payloads of packets for Voice over Internet Protocol (VoIP) or Video over IP ... **least** ... The network interfaces may be **configured** to transmit and/or receive data ...
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Procedure and configuration in order to transmit data

www.google.com/patents/US7200660

Grant - Filed Aug 12, 2002 - issued Apr 3, 2007 - Peter Bruegger - Ininet Solutions GmbH
... a tunnel for data transfer between system and web server, at **least one** additional ... via specifically **configured proxy** servers, routers, switches and firewalls.
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Internet isolation for avoiding internet security threats



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Internet isolation for avoiding internet security threats

www.google.com/patents/CA2825811A1?cl=en



App. - Filed Jan 27, 2012 - Published Aug 2, 2012 - Robert B. Hoy - L-3 Communications Corporation

The virtual guest system is separated and completely isolated by an . Internet malicious software threats by its isolation of the host system.

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Code domain isolation

www.google.com/patents/US9485227



Grant - Filed Sep 26, 2014 - Issued Nov 1, 2016 - Phillip John Sobolewski - Isolated Technologies, Llc

A method for achieving code domain isolation: ... data from web sites that allows the user to surf the Internet while remaining virus and malware free. prevent ...

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System and methodology for protecting new computers by ...

www.google.com/patents/US7540013



Grant - Filed Aug 2, 2004 - Issued May 26, 2009 - Gregor P. Freund - Check Point Software Technologies, Inc.

can sabotage the machine, thus preventing the user from getting required downloads in a preconfigured security update policy for preventing Internet-borne infections occurring

Internet isolation for avoiding internet security threats

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Preventing computer worms from attacking a private computer ...

www.google.com/patents/US9225733



Grant - Filed Aug 25, 2014 - Issued Dec 29, 2015 - Chien-Wei Hung - Trend Micro Incorporated

A system for preventing a computer worm from attacking a private computer ... or network communication protocols for network security for detecting or by way of the VPN connection over the Internet to the VPN server 240-1. architecture for enforcing security policies using an isolated subnet ... threats

[Overview](#) · [Related](#) · [Discuss](#)

Mobile payment security system with wireless data private ...

www.google.com/patents/WO2015085809A1?cl=en



App. - Filed Sep 24, 2014 - Published Jun 18, 2015 - 朱雄关 - 成都迈信通讯设备有限公司 ... data securely and reliably, does not affect Internet access and can prevent an SIM ... in a mobile payment secure data network that is isolated from the Internet, the ... is a single bound phone number of payment services greater security risks.

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Method and system for preventing and detecting security threats

www.google.com/patents/US9703950



Grant - Filed Mar 30, 2012 - Issued Jul 11, 2017 - Ron Vandergeest - Irdeto B.V.

Internet-based retail interface provides a system by which the third-party ... to platform security, there is a problem that is common to process isolation, ... risks ...

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Internal-and-external network safety isolation system based ...

www.google.com/patents/CN202178780U?cl=en



Grant - Filed Aug 31, 2011 - Issued Mar 28, 2012 - 吴铁丹 - 公安部第三研究所

The internal-and-external network safety isolation system based on one-way ... threats ... In this way, the already fragile Internet become increasingly unsafe. real-time processing of packets loss and other advanced technology, to avoid data ...

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Structural data ferry system for prevention of penetration ...

www.google.com/patents/US20170054682



App. - Filed Jun 25, 2015 - Published Feb 23, 2017 - Michael Lynn Froelich - Michael Lynn Froelich

By creating a one-way secure data link from a primary computer not ... Although it's always been possible to avoid internet risks to computers by simply keeping ...

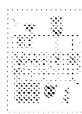
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Network device for secure packet dispatching via port isolation

www.google.com/patents/CN100471132C?cl=en - [Translate this page](#)

Grant - Filed May 22, 2006 - Issued Mar 18, 2009 - 彭阳洪 - 合勤科技股份有限公司
... area network, LAN)、无线网络 (Wireless network)以及因特网 (Internet)。 ... 引擎或防毒
应用程序, 例如TMSS (Trend Micro Home Network Security Service),或是 ...
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Virtual security appliance

www.google.com/patents/US8353931

Grant - Filed May 17, 2007 - Issued Jan 8, 2013 - Archana S. Rajan - Symantec Corporation
Security from malicious attack is provided for a user environment running in a ... while
avoiding the costs and complexities of a physical security appliance. ... flowchart showing a
method of filtering security threats from network traffic on ... computers and storage
devices over a network, such as the Internet.
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Systems and methods for voluntary migration of a **virtual** machine between **hosts** with common storage connectivity

RA Vega, EP Traut, M Neil - US Patent 7,383,405, 2008 - Google Patents

... exemplary and other means of establishing a communications link between the **computers** may be ... machine," via a standard network connection between **computer** hardware 102 and **computer** hardware 102 ... With **host OS** 104 initially having exclusive access to file **system** 128 of ...

☆ ⓘ Cited by 251 Related articles All 4 versions ⓘ

Apparatus and method for providing private and shared access to **host** address and data spaces by guest programs in a **virtual** machine **computer system**

DP Breisford, MM Cutler, JL Lafitte, JM Gdaniec... - US Patent ..., 1993 - Google Patents

... The interpretive-execution facility of Enterprise **Systems** Architecture/370(TM) (ESA/370(TM)) provides ... of the **virtual** machine guests; receiving a private-space signal from the **host computer system**; and ... selecting, from within a **host** access list **comprising** a plurality of entries, the ...

☆ ⓘ Cited by 166 Related articles All 2 versions ⓘ

Method for establishing a **virtual** hard drive for an emulated **computer system** running on a **host computer system**

EP Traut, AS Giles, P Chakraborty - US Patent 6,968,350, 2005 - Google Patents

... that are unique to each client **computer** and are stored at the client **computers** or at ... in the differencing drive at client **computer systems** 502, allowing the client **computer systems** to access ... **comprising** the steps of: establishing in a hard drive of a **host computer system** a plurality ...

☆ ⓘ Cited by 42 Related articles All 4 versions ⓘ

Adjusting available persistent storage during execution in a **virtual computer system**

M Ginzton - US Patent 8,195,866, 2012 - Google Patents

... hand-held devices, microprocessor **systems**, microprocessor-based or programmable consumer electronics, minicomputers, mainframe **computers**, and the ... Everything in the **host system** 100 may be substantially the same as in existing **virtual computer systems**, except as ...

☆ ⓘ Cited by 108 Related articles All 4 versions ⓘ

Method and **system** for **virtual** port communications

IS Ganga - US Patent 8,798,056, 2014 - Google Patents

... G06F15/16—Combinations of two or more digital **computers** each having at least an arithmetic unit ... a laptop **computer**, a notebook **computer**, a terminal, a workstation, a server **computer**, a personal ... or may be implemented by, for example, VM **host** and edge switch **system** 100 of ...

☆ ⓘ Cited by 398 Related articles All 4 versions ⓘ

Distributed **computer system** including a **virtual** disk subsystem and method for providing a **virtual** local drive

RM Blood, HA Hollinger, TM Nguyen... - US Patent ..., 2005 - Google Patents

... For example, some applications for testing and administering **computers** must be executed before an ... The disk commands may include commands from ATA and Small **Computer System** Interface (SCSI ... Data processing **system** will then continue to operate as if **virtual** local floppy ...

☆ ⓘ Cited by 61 Related articles All 4 versions ⓘ

Virtual machine **computer system** for running guest operating **system** on a central processing means virtualized by a **host system** using region ID **virtual** memory option

C Hildner - US Patent App. 10/994,426, 2006 - Google Patents

... 1 which shows a **system** block diagram of a **virtual machine system** realized by a **host** ... Further on the **host computer** 3 **comprises** a memory unit with common read-only- and random-access ... **virtual** address spaces 11, 12 of two processes #1 and #2 of the virtualized **systems** 1 and ...

☆ ⓘ Cited by 25 Related articles All 2 versions ⓘ

Systems and methods for stack-jumping between a **virtual** machine and a **host** environment

M Neil - US Patent 7,689,987, 2010 - Google Patents

... exemplary and other means of establishing a communications link between the **computers** may be ... **system**, (b) a **host** operating **system**, and (c) a physical hardware **computer system** **comprising** at least ... 4B is a block diagram that represents logical portions of the **system** of FIG ...

☆ ⓘ Cited by 46 Related articles All 4 versions ⓘ

Method, apparatus and **system** for dynamically reassigning a physical device from one **virtual** machine to another

PR Lantiz, MA Goldsmith, DJ Cowperthwaite - US Patent 7,971,203, 2011 - Google Patents

... 13. A **host computer system** for dynamically reassigning physical devices, **comprising**: a monitoring module; a first **computer** ... Company, LP, Method and **system** for dynamically reallocating a resource among operating **systems** without rebooting of the **computer system** ...

☆ 99 Cited by 42 Related articles All 4 versions

Systems and methods for exposing processor topology for **virtual** machines

EP Traut, RA Vega - US Patent 8,621,458, 2013 - Google Patents

... data is read by the VM scheduler 614 and used by the VM scheduler 614 to more efficiently assign (and/or request) current processor resources to said guest operation **system** ... In the case of program code execution on programmable **computers**, the **computer** will generally ...

☆ 99 Cited by 94 Related articles All 4 versions



1. NETWORK ISOLATION

Patent Application: 16/059381. Filed: August 09, 2018. Published: February 14, 2019. , Database: USPTO Patent Applications

Abstract: Methods and systems are disclosed for isolation of communications between a host computer system and one or more untrusted network destinations. An internet isolation system may include a network, one or more host computer systems, a border firewall, an authorization device, and/or a proxy device. The internet isolation system may be configured to implement network isolation between one or more untrusted network destinations, the one or more host computer systems, and/or the network. The network isolation may be implemented via one or more of a host-based firewall on each of the one or more host computer systems, the border firewall, the authorization device, the proxy device, an internal isolation firewall on each of the one or more host computer systems, and/or a segregation of a trusted memory space and an untrusted memory space on each of the one or more host computer systems.

AN: edspap.20190052604

USPTO Full Text Options

2. **Blockchain Enabled Applications : Understand the Blockchain Ecosystem and How to Make It Work for You**

By: Dhillon, Vikram; Metcalf, David; Hooper, Max. [New York, NY] : Apress. 2017. eBook. Description: Work with blockchain and understand its potential application beyond cryptocurrencies in the domains of healthcare, Internet of Things, finance, decentralized organizations, and open science. Featuring case studies and practical insights generated from a start-up spun off from the author's own lab, this book covers a unique mix of topics not found in others and offers insight into how to overcome real hurdles that arise as the market and consumers grow accustomed to blockchain based start-ups. You'll ... (AN 1641968), Database: eBook Collection (EBSCOhost)

Subjects: **COMPUTERS** / Programming / Open Source; **COMPUTERS** / Human-**Computer** Interaction (HCI); Blockchains (Databases)

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3. **Computer and Information Security Handbook**

By: Vacca, John R. Series: The Morgan Kaufmann Series in **Computer Security**. Amsterdam : Morgan Kaufmann. 2009. eBook. Description: Presents information on how to analyze risks to your **networks** and the steps needed to select and deploy the appropriate countermeasures to reduce your exposure to physical and **network** threats. Also imparts the skills and knowledge needed to identify and counter some fundamental security risks and requirements, including Internet security threats and measures (audit trails IP sniffing/spoofing etc.) and how to **implement** security policies and procedures. In addition, this book covers security and **network** ... (AN 248988), Database: eBook Collection (EBSCOhost)

Subjects: **COMPUTERS** / Networking / General; **COMPUTERS** / Security / General; **Computer networks**--Security measures

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4. **Distributed Network Systems : From Concepts to Implementations**

By: Jia, Weijia; Zhou, Wanlei. Series: **Network Theory and Applications**, v. 15. New York : Springer. 2005. eBook. Description: This textbook covers both theoretical and practical aspects of distributed computing. It describes the client-server model for developing distributed **network systems**, the communication paradigms used in a distributed **network system**, and the principles of reliability and security in the design of distributed **network systems**. Based on theoretical introductions, the book presents various implementation strategies and techniques for building distributed **network systems**, including examples in TCP/IP communications, ... (AN 130165). Database: eBook Collection (EBSCOhost)

Subjects: **COMPUTERS** / Data Transmission **Systems** / General; **COMPUTERS** / Networking / Vendor Specific; **Computer networks**; Electronic data processing--Distributed processing

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5. **Handbook of Green Information and Communication Systems**

By: Woungang, Isaac; Anpalagan, Alagan; Obaidat, Mohammad S.
Amsterdam : Academic Press. 2013. eBook. Description: This book gives a comprehensive guide on the fundamental concepts, applications, algorithms, protocols, new trends and challenges, and research results in the area of Green Information and Communications **Systems**. It is an invaluable resource giving knowledge on the core and specialized issues in the field, making it highly suitable for both the new and experienced researcher in this area. Key Features: Core research topics of green information and communication **systems** are covered from a network ... (AN 485200), Database: eBook Collection (EBSCOhost)

Subjects: TECHNOLOGY & ENGINEERING / Signals & Signal Processing; SCIENCE / Environmental Science; Sustainable engineering--Handbooks, manuals, etc; Telecommunication--Environmental aspects--Handbooks, manuals, etc; Telecommunication--Energy conservation--Handbooks, manuals, etc

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6. **Wireless Technologies : Concepts, Methodologies, Tools and Applications**

By: Information Resources Management Association. Hershey, PA : IGI Global. 2012. eBook. (AN 396408), Database: eBook Collection (EBSCOhost)

Subjects: TECHNOLOGY & ENGINEERING / Mobile & Wireless Communications; TECHNOLOGY & ENGINEERING / Radio; Wireless communication **systems**; Telecommunication

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7. **Advances in Enterprise Information Technology Security**

By: Herrmann, Francine; Khadraoui, Djamel; Hershey [Pa.] : IGI Global. 2007. eBook. Description: "This book provides a broad working knowledge of all the major security issues affecting today's enterprise IT activities. Multiple techniques, strategies, and applications are thoroughly examined, presenting the tools to address opportunities in the field. It is an all-in-one reference for IT managers, network administrators, researchers, and students"--Provided by publisher. (AN 185367), Database: eBook Collection (EBSCOhost)

Subjects: **COMPUTERS** / Security / General; **COMPUTERS** / Security / Networking; **COMPUTERS** / Security / Online Safety & Privacy; **Computer security**; Data protection; Business enterprises--**Computer networks**--Security measures; Information technology--Security measures

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8. **Complete Book of Remote Access : Connectivity and Security**

By: Kasacavage, Victor. Series: The Auerbach Best Practices Series. Boca Raton, Fla : Auerbach Publications. 2003. eBook. Description: As technology advances, the demand and necessity for seamless connectivity and stable access to servers and networks is increasing exponentially. Unfortunately the few books out there on remote access focus on Cisco certification preparation, one aspect of network connectivity or security. This text covers both--the enabling technology and how to make remote access secure. The definitive resource for network administrators and IT professionals implementing and maintaining remote access systems, The ... (AN 135484), Database: eBook Collection (EBSCOhost)

Subjects: **COMPUTERS** / Networking / General; **COMPUTERS** / Security / General; **Computer networks**--Remote access; **Computer networks**--Security measures

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9. **Mobile and Wireless Communication Networks :**
IFIP TC6/WG6.8 Conference on Mobile and
Wireless Communication Networks (MWCN
2004), October 25-27, 2004, Paris, France

By: Belding-Royer, Elizabeth M.; Al Agha, Khaldoun; Pujolle, G.;
International Federation for Information Processing. Series: International
Federation for Information Processing, Vol. 162. New York : Springer, 2005.
eBook. (AN 133162), Database: eBook Collection (EBSCOhost)

Subjects: TECHNOLOGY & ENGINEERING / Telecommunications;
Wireless communication **systems**--Congresses; Mobile communication
systems--Congresses

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10. **Absolute FreeBSD, 3rd Edition : The Complete**
Guide to FreeBSD

By: Michael W. Lucas, [N.p.] : No Starch Press, 2018. eBook. Description:
This updated edition of Michael W. Lucas's definitive volume on FreeBSD-
based **systems** adds coverage of modern disks, the ZFS filesystem IPv6,
redesigned jail and packaging **systems**, and virtualization, among dozens of
new features added in the last 10 years. FreeBSD is the muscle behind
companies like Netflix and EMC. Any place where someone does heavy
lifting on the Internet, you'll find FreeBSD. This newly revised edition of
Absolute FreeBSD brings FreeBSD's strengths to bear on your problems and
covers ... (AN 1627006), Database: eBook Index

Subjects: **COMPUTERS** / Operating **Systems** / UNIX; **COMPUTERS** /
System Administration / Linux & UNIX Administration

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11. **Rugged Embedded Systems : Computing in Harsh Environments**

By: Vega, Augusto; Bose, Pradip; Buyuktosunoglu, Alper. [Place of publication not identified] : Morgan Kaufmann, 2016. eBook. Description: **Rugged Embedded Systems: Computing in Harsh Environments** describes how to design reliable embedded **systems** for harsh environments, including architectural approaches, cross-stack hardware/software techniques, and emerging challenges and opportunities. A 'harsh environment' presents inherent characteristics, such as extreme temperature and radiation levels, very low power and energy budgets, strict fault tolerance and security constraints, etc. that challenge the **computer system** in its design and operation. ... (AN 1144177), Database: eBook Index

Subjects: **COMPUTERS** / Microprocessors; **COMPUTERS** / Intelligence (AI) & Semantics; **TECHNOLOGY & ENGINEERING** / Robotics; Fault-tolerant computing; **Computers--Reliability**

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12. Security issues in cloud environments: a survey.

By: Fernandes, Diogo; Soares, Lilliana; Gomes, João; Freire, Mário; Inácio, Pedro. *International Journal of Information Security*. Apr2014, Vol. 13 Issue 2, p113-170. 58p. Abstract: In the last few years, the appealing features of cloud computing have been fueling the integration of cloud environments in the industry, which has been consequently motivating the research on related technologies by both the industry and the academia. The possibility of paying-as-you-go mixed with an on-demand elastic operation is changing the enterprise computing model, shifting on-premises infrastructures to off-premises data centers, accessed over the Internet and managed by cloud hosting providers. Regardless of its advantages, the transition to this computing paradigm raises security concerns, which are the subject of several studies. Besides of the issues derived from Web technologies and the Internet, clouds introduce new issues that should be cleared out first in order to further allow the number of cloud deployments to increase. This paper surveys the works on cloud security issues, making a comprehensive review of the literature on the subject. It addresses several key topics, namely vulnerabilities, threats, and attacks, proposing a taxonomy for their classification. It also contains a thorough review of the main concepts concerning the security state of cloud environments and discusses several open research topics. [ABSTRACT FROM AUTHOR] DOI: 10.1007/s10207-013-0208-7. (AN: 95064452), Database: Computer Source

Subjects: CLOUD computing security measures; **COMPUTER networks** in business enterprises; ELASTICITY (Economics); WEB services; CLOUD computing; MANAGEMENT

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13. Securing Cisco IP Telephony Networks

By: Akhil Behl. Series: Networking Technology: IP Communications. [N.p.] : Cisco Press. 2012. eBook. Description: The real-world guide to securing Cisco-based IP telephony applications, **devices**, and **networks** Cisco IP telephony leverages converged **networks** to dramatically reduce TCO and improve ROI. However, its critical importance to business communications and deep integration with enterprise IP **networks** make it susceptible to attacks that legacy telecom **systems** did not face. Now, there's a comprehensive guide to securing the IP telephony components that ride atop data **network** infrastructures--and thereby providing ... (AN 1597740). Database: eBook Index

Subjects: **COMPUTERS** / Networking / General



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USPTO Full Text Options

14. Directory-enabled Networks

By: Gonçalves, Marcus. New York : McGraw-Hill Professional. 1999. eBook. (AN 12999). Database: eBook Collection (EBSCOhost)

Subjects: **COMPUTERS** / Information Technology; **COMPUTERS** / Computer Literacy; **COMPUTERS** / Computer Science; **COMPUTERS** / Data Processing; **COMPUTERS** / Machine Theory; **COMPUTERS** / Reference; **COMPUTERS** / Hardware / General; **Computer networks**

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15. Using Microsoft Windows XP

By: Cowart, Robert; Knittel, Brian. Edition: Platinum ed. Indianapolis, Ind : Pearson Education, Inc. 2004. eBook. Description: Title from ebook title screen (viewed on Apr. 28, 2005). (AN 128872), Database: eBook Collection (EBSCOhost)

Subjects: **COMPUTERS** / Operating **Systems** / Apple (Mac OS & iOS); **COMPUTERS** / Operating **Systems** / Windows Desktop; **COMPUTERS** / Operating **Systems** / Windows Server; **COMPUTERS** / Operating **Systems** / DOS; **COMPUTERS** / **System** Administration / Windows Administration; Operating **systems** (**Computers**)

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16. Principles of Computer System Design : An Introduction

By: Saltzer, J. H.; Kaashoek, Frans. Burlington, MA : Morgan Kaufmann. 2009. eBook. Description: Principles of Computer System Design is the first textbook to take a principles-based approach to the computer system design. It identifies, examines, and illustrates fundamental concepts in computer system design that are common across operating systems, networks, database systems, distributed systems, programming languages, software engineering, security, fault tolerance, and architecture. Through carefully analyzed case studies from each of these disciplines, it demonstrates how to apply these ... (AN 919653), Database: eBook Index

Subjects: **COMPUTERS** / Microprocessors; **Computer systems**; **System** design

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17. **Tech Terms : What Every Telecommunications
and Digital Media Professional Should Know**

By: Rutenbeck, Jeffrey B. Amsterdam : Routledge. 2006. eBook. Description: An avalanche of acronyms, terms-of-art, buzz words, and short-hand phraseology confronts today's busy communications professionals. Now in its 3rd edition, Tech Terms is an invaluable learning tool to help grasp key aspects of the television and video, PC hardware and software markets, multimedia authoring tools, and the exploding wireless Internet and mobile telecomputing worlds. With more than 1000 terms described in four sentences or less, Tech Terms is perfect the perfect desk reference. (AN 166759), Database: eBook Collection (EBSCOhost)

Subjects: LANGUAGE ARTS & DISCIPLINES / Communication Studies; Telecommunication--Dictionaries; Digital media--Dictionaries

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18. **Networking Explained**

By: Gallo, Michael A.; Hancock, Bill. Boston : Digital Press. 1999. eBook. Description: Networking Explained is aimed at computer professionals who have an interest in furthering their knowledge of the fundamental principles of networks and networking. It employs an easy to follow question and answer format. The questions are representative of those asked by people who are already in the computing field and are categorized hierarchically by subject so that busy readers who seek answers to specific questions in the heat of combat can find them easily. The answers are intended to give ... (AN 34052), Database: eBook Collection (EBSCOhost)

Subjects: COMPUTERS / Networking / General; Computer networks

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19. **Introduction to Multimedia Communications :
Applications, Middleware, Networking**

By: Rao, K. Ramamohan; Bojkovic, Z. S.; Milovanovic, Dragorad A.
Hoboken, N.J. : Wiley-Interscience. 2006. eBook. Description: A
comprehensive resource on multimedia communications. Covers recent
trends and standardization activities in multimedia communications, such as
layered structures, underlying theories and the current best design
techniques. Describes the convergence of various technologies including
communications, broadcasting, information technology, and home
electronics, and emerging new communication services and applications
resulting from the growth of the Internet and wireless technologies. Please go
to [www-ee.uta.edu/dip ...](http://www-ee.uta.edu/dip...) (AN 149077), Database: eBook Collection
(EBSCOhost)

Subjects: TECHNOLOGY & ENGINEERING / Telecommunications;
Multimedia communications

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20. **Essential System Administration**

By: Frisch, AEleen. Series: A Nutshell Handbook. Edition: 2nd ed.
Sebastopol, CA : O'Reilly Media. 1995. eBook. (AN 24420), Database:
eBook Collection (EBSCOhost)

Subjects: COMPUTERS / System Administration / Linux & UNIX
Administration; Operating systems (Computers)

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21. Using NetWare 4.1

By: Lawrence, Bill. Edition: Special ed., 2nd ed. Indianapolis, Ind : Pearson Education, Inc. 1996. eBook. Description: Includes index. (AN 16010), Database: eBook Collection (EBSCOhost)

Subjects: COMPUTERS / Operating Systems / General; Operating systems (Computers)

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22. Trust in Cyberspace

By: Schneider, Fred B.; National Research Council (U.S.). Washington, D.C. : National Academies Press. 1999. eBook. (AN 854), Database: eBook Collection (EBSCOhost)

Subjects: TECHNOLOGY & ENGINEERING / Telecommunications; BUSINESS & ECONOMICS / Industries / Media & Communications; Internet--Security measures; Telecommunication policy--United States; Computer networks--Security measures

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23. Essential Windows NT System Administration

By: Frisch, Aeleen. Edition: 1st ed. Cambridge, Mass : O'Reilly Media. 1998. eBook. Description: This is a comprehensive guide to the management of Windows NT systems, covering issues such as security, performance tuning, fault tolerance, backups, printing, and networking. (AN 24652), Database: eBook Collection (EBSCOhost)

Subjects: COMPUTERS / System Administration / Windows Administration; Operating systems (Computers)

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24. **Sams Teach Yourself UNIX System
Administration in 21 Days**

By: Ray, Joan; Ray, William. Indianapolis, Ind : Pearson Education, Inc.
1999. eBook. (AN 8199), Database: eBook Collection (EBSCOhost)

Subjects: **COMPUTERS** / Operating **Systems** / Apple (Mac OS & iOS);
COMPUTERS / Operating **Systems** / Windows Desktop; **COMPUTERS** /
Operating **Systems** / Windows Server; **COMPUTERS** / Operating **Systems** /
DOS; **COMPUTERS** / **System** Administration / Windows Administration;
Operating **systems**

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25. **Special Edition Using Unix**

By: Kuo, Peter. Edition: Special ed., 3rd ed. Indianapolis, Ind : Pearson
Education, Inc. 1998. eBook. Description: Includes index. (AN 16024),
Database: eBook Collection (EBSCOhost)

Subjects: **COMPUTERS** / Operating **Systems** / Virtualization;
COMPUTERS / Utilities; **COMPUTERS** / **System** Administration / General;
Operating **systems** (**Computers**)

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26. **Practical UNIX and Internet Security**

By: Garfinkel, Simson; Spafford, Gene. Series: **Computer Security**. Edition:
2nd ed., expanded & updated. Bonn : O'Reilly Media. 1996. eBook. (AN
24630), Database: eBook Collection (EBSCOhost)

Subjects: **COMPUTERS** / Security / General; **COMPUTERS** / Operating
Systems / UNIX; Operating **systems** (**Computers**); **Computer** security;
Internet--Congresses

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27. Using Netware 5.0

By: Kuo, Peter; Pence, John; Specker, Sally. Edition: Special ed.
Indianapolis, Ind : Pearson Education, Inc. 1999. eBook. (AN 16011),
Database: eBook Collection (EBSCOhost)

Subjects: **COMPUTERS** / Operating **Systems** / Virtualization;
COMPUTERS / Utilities; **COMPUTERS** / **System** Administration / General;
Operating **systems** (**Computers**)

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28. UNIX Unleashed

By: Burk, Robin. Edition: 3rd ed. Indianapolis, IN : Pearson Education, Inc.
1998. eBook. Description: Includes index. (AN 8211), Database: eBook
Collection (EBSCOhost)

Subjects: **COMPUTERS** / Operating **Systems** / Virtualization;
COMPUTERS / Utilities; **COMPUTERS** / **System** Administration / General;
Operating **systems** (**Computers**)

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29. Using Linux

By: Tackett, Jack; Burnett, Steven Forrest. Edition: 4th ed., special ed.
Indianapolis, Ind : Pearson Education, Inc. 1998. eBook. Description:
Includes index. (AN 8177), Database: eBook Collection (EBSCOhost)

Subjects: **COMPUTERS** / Operating **Systems** / Apple (Mac OS & iOS);
COMPUTERS / Operating **Systems** / Windows Desktop; **COMPUTERS** /
Operating **Systems** / Windows Server; **COMPUTERS** / Operating **Systems** /
DOS; **COMPUTERS** / **System** Administration / Windows Administration;
Operating **systems** (**Computers**)

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30. Teach Yourself Windows NT Server 4 in 14 Days

By: Davis, Peter T.; Lewis, Barry D. Edition: 1st ed. Indianapolis, IN : Pearson Education, Inc. 1997. eBook. Description: Includes index. (AN 12159), Database: eBook Collection (EBSCOhost)

Subjects: **COMPUTERS** / Operating **Systems** / General; Operating **systems (Computers)**; Client/server computing

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1. Patent Issued for Packet-Aware Fault-Tolerance Method And **System** Of **Virtual** Machines Applied To Cloud Service, **Computer** Readable Record Medium And **Computer** Program Product (USPTO 10,402,264)

In: Information Technology Newsweekly. Sept 17, 2019, 4593; NewsRX LLC
Language: English. Abstract: 2019 SEP 17 (VerticalNews) -- By a News
Reporter-Staff News Editor at Information Technology Newsweekly --
According to news reporting originating from Alexandria, Virginia, by
VerticalNews journalists, a patent by [...] (AN: edsgcl.599520674), Database:
Gale General OneFile

Subjects: Taiwan; **Virtual computer systems -- Methods; Virtual
computer systems -- Intellectual property; Cloud computing -- Methods**

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2. Handbook of **Systems** Biology : Concepts and Insights

By: Dekker, Job; Vidal, Marc; Walhout, Marian. Edition: 1st ed. Boston : Academic Press. 2013. eBook. Description: This book provides an entry point into **Systems** Biology for researchers in genetics, molecular biology, cell biology, microbiology and biomedical science to understand the key concepts to expanding their work. Chapters organized around broader themes of Organelles and Organisms, **Systems** Properties of Biological Processes, Cellular Networks, and **Systems** Biology and Disease discuss the development of concepts, the current applications, and the future prospects. Emphasis is placed on concepts and insights ... (AN 485494), Database: eBook Collection (EBSCOhost)

Subjects: SCIENCE / Life Sciences / Molecular Biology; **COMPUTERS** / Bioinformatics; MATHEMATICS / Applied; **Systems** biology--Handbooks, manuals, etc; Bioinformatics--Handbooks, manuals, etc

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3. Patent Issued for **Computer System** (USPTO 10,452,292)

In: Technology Business Journal. Nov 5, 2019, 3814.; NewsRX LLC
Language: English. Abstract: 2019 NOV 5 (VerticalNews) -- By a News Reporter-Staff News Editor at Technology Business Journal -- A patent by the inventors Ikegaya, Naoko (Tokyo, JP); Maki, Nobuhiro (Tokyo, JP); Yamamoto, [...] (AN: edsgcl.604649457), Database: Business Insights: Essentials

Subjects: Japan; Electronics industry; Hitachi Ltd. -- Intellectual property; Electronics industry -- Intellectual property; Periodical publishing -- Intellectual property

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4. **System cum Program-Wide Lightweight Malicious Program Execution Detection Scheme for Cloud.**

By: Gupta, Sanchika; Kumar, Padam. *Information Security Journal: A Global Perspective*. 2014, Vol. 23 Issue 3, p86-99. 14p. Abstract: Cloud is prone to a set of well-known network and host-based attacks from cloud insiders, cloud users, and outside attackers. This paper concretely focuses over the detection of malware and program modification-based attacks through identification of malicious program executions and malware at the client virtual machines and hosts in a cloud environment. The paper also focuses on the related techniques for malware detection using system call sequence measures. An immediate system call structure-based program cum system-wide technique is proposed for the detection of anomalous program executions and malwares in the cloud. The algorithm is validated over University of New Mexico sendmail data set. Effective deployment architecture for such an implementation is also presented as a distributed cum centralized intrusion prevention system (IPS). The proposed IPS also solves the problem of individual IPS getting malformed at client virtual machine with the use of both process and system level based detection strategies. The paper provides detailed results and experimentations of the proposed intrusion detection technique on a private cloud with open nebula and virtual box. [ABSTRACT FROM AUTHOR] DOI: 10.1080/19393555.2014.942017. (AN: 99462734), Database: Computer Source

Subjects: CLOUD computing; WEB hosting; CYBERTERRORISM; MALWARE; NEBULA (Computer program language)

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[USPTO Full Text Options](#)

5. Orthogonal Taguchi-based cat algorithm for solving task scheduling problem in cloud computing.

By: Gabi, Danlami; Ismail, Abdul Samad; Zainal, Anazida; Zakaria, Zalmiyah; Abraham, Ajith. *Neural Computing & Applications*. Sep2018, Vol. 30 Issue 6, p1845-1863. 19p. Abstract: In cloud computing datacenter, task execution delay is a common phenomenal cause by task imbalance across virtual machines (VMs). In recent times, a number of artificial intelligence scheduling techniques are applied to reduced task execution delay. These techniques have contributed toward the need for an ideal solution. The objective of this study is to optimize task scheduling based on proposed orthogonal Taguchi-based cat swarm optimization (OTB-CSO) in order to reduce total task execution delay. In our proposed algorithm, Taguchi orthogonal approach was incorporated into tracing mode of CSO to scheduled tasks on VMs with minimum execution time. CloudSim tool was used to implement the proposed algorithm where the impact of the algorithm was checked with 5, 10 and 20 VMs besides input tasks and evaluated based on makespan and degree of imbalance metrics. Experimental results showed that for 20 VMs used, our proposed OTB-CSO was able to minimize makespan of the total tasks scheduled across VMs with 42.86, 34.57 and 2.58% improvement over minimum and maximum job first (Min-Max), particle swarm optimization with linear descending inertia weight (PSO-LDIW) and hybrid PSO with simulated annealing (HPSO-SA) and likewise returned degree of imbalance with 70.03, 62.83 and 35.68% improvement over existing algorithms. Results obtained showed that OTB-CSO is effective to optimize task scheduling and improve overall cloud computing performance through minimizing task execution delay while ensuring better system utilization. [ABSTRACT FROM AUTHOR] DOI: 10.1007/s00521-016-2816-4. (AN: 131532706), Database: Computer Source

Subjects: CLOUD computing; **COMPUTER** algorithms; **VIRTUAL** machine systems; PARTICLE swarm optimization; **COMPUTER** programming

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6. Encyclopedia of the Solar System

By: Spohn, T.; Breuer, Doris; Johnson, T. V. Edition: Third edition.
Amsterdam : Elsevier. 2014. eBook. Description: The Encyclopedia of the Solar System, Third Edition—winner of the 2015 PROSE Award in Cosmology & Astronomy from the Association of American Publishers—provides a framework for understanding the origin and evolution of the solar system, historical discoveries, and details about planetary bodies and how they interact—with an astounding breadth of content and breathtaking visual impact. The encyclopedia includes the latest explorations and observations, hundreds of color digital images and illustrations, ... (AN 596600), Database: eBook Collection (EBSCOhost)

Subjects: SCIENCE / Space Science

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7. Patent Issued for System And Method For Enabling Application-To-Application Communication In An Enterprise Computer System (USPTO 10,432,452)

In: Internet Business Newsweekly. Oct 14, 2019, 7053.; NewsRX LLC
Language: English. Abstract: 2019 OCT 14 (VerticalNews) -- By a News Reporter-Staff News Editor at Internet Business Newsweekly -- From Alexandria, Virginia, VerticalNews journalists report that a patent by the inventor Aliminati, Janga [...] (AN: edsgcl.602558061), Database: Business Insights: Essentials

Subjects: Database middleware; Middleware; File servers -- Reports; File servers -- Intellectual property; File servers -- Methods; Middleware -- Reports; Middleware -- Methods



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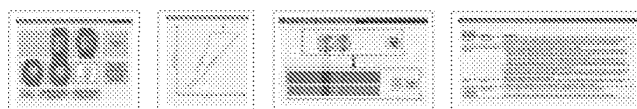
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8. Offline Management in Virtualized Environments.

By: THORAT, NISHANT; RAGHAVENDRAN, ARVIND; GROVES, NIGEL.
Communications of the ACM, Apr2013, Vol. 56 Issue 4, p75-81, 7p, 4
Diagrams, 2 Charts, 1 Graph Abstract: The article discusses the information
technology (IT) management of combined **virtual** and physical computing
machines, and mentions topics such as the efficiency of virtualization,
operations management, and IT management tools. **Computer** hardware,
computer network architecture, and IT vendors are discussed, as well as
offline management, antivirus **computer** security, **virtual** machine patching.
The offline management products **Virtual** Machine Servicing Tool and
VMware vCenter Protect Essentials Plus are mentioned, as well as data
access **systems**.; DOI: 10.1145/2436256.2436273; (AN 87497840),
Database: Applied Science & Technology Source

Subjects: Information technology management; **Virtual** machine **systems**;
Computer input-output equipment; **Computer** software industry --
Management; **Computer** architecture; **Computer** security; **Computer** and
peripheral equipment manufacturing; **Computer** Terminal and Other
Computer Peripheral Equipment Manufacturing; Software Publishers;
Computer, **computer** peripheral and pre-packaged software merchant
wholesalers; **Computer** and **Computer** Peripheral Equipment and Software
Merchant Wholesalers; **Computer** and software stores; Software publishers
(except video game publishers); Management

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9. Embedded System Design

By: Marwedel, Peter. New York : Springer. 2006. eBook. Description: Until the late eighties, information processing was associated with large mainframe **computers** and huge tape drives. During the nineties, this trend shifted towards information processing with personal **computers**, or PCs. The trend towards miniaturization continues. In the future, most of the information processing **systems** will be quite small and embedded into larger products such as transportation and fabrication equipment. Hence, these kinds of **systems** are called embedded **systems**. It is expected ... (AN 118359), Database: eBook Collection (EBSCOhost)

Subjects: TECHNOLOGY & ENGINEERING / Electronics / Circuits / General; **COMPUTERS** / CAD-CAM; **COMPUTERS** / Computer Science; TECHNOLOGY & ENGINEERING / Electrical; Embedded **computer systems--Design**

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10. Garbage Collection for Virtual Memory Computer Systems.

By: Randell, B.; Baecker, H. D.. *Communications of the ACM*, Nov72, Vol. 15 Issue 11, p981-986, 6p, 3 Charts Abstract: In list processing there is typically a growing demand for space during program execution. This paper examines the practical implications of this growth within a **virtual memory computer system**, proposes two new garbage collection techniques for **virtual memory systems**, and compares them with traditional methods by discussion and by simulation. [ABSTRACT FROM AUTHOR]; (AN 5263794), Database: Applied Science & Technology Source

Subjects: Garbage collection (**Computer science**); **Computer** programming; Memory management (**Computer science**); **Computer** algorithms; **Virtual** storage (**Computer science**); List processing (Electronic **computers**); **Computer systems** design and related services (except video game design and development); Custom **Computer** Programming Services; Other **Computer** Related Services

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11. An Intrusion Detection **System** for Network Security based on an Advanced Honeypots Server.

By: Veena, K.; Meena, K.. *International Journal of Simulation -- Systems, Science & Technology*, Aug2018, Vol. 19 Issue 4, p2.1-2.8, 8p Abstract: The current greatest challenge to Network security is cyber warfare. Every part of **computer** network security is an essential component. In the existing technologies **computer** networks and **systems** are more crucially concerned with network security. The greatest challenge in network is addressing security to the server side. This latest end-to-end research paper recommends to improve the security performance to protect the network from intruders. An advanced honeypot based Intrusion Detection technique is used to detect and analyze threats to ensure security. The Honeypot technique adds a layer to the network security to enhance its performance. A key feature of honeypot is to distract the attacker from the real **system** to derive important information about hacker activities. To validate whether the clients are authorized or unauthorized and monitor the unauthorized client activities, as a first step we use IP validation together with vulnerability detection of user activities. In the second step we use voice recognition as detectors of malicious attacks. Once IP validation and voice recognition are processed and matched then the client is an authorized client and the packet is transmitted to the server, but if not matched it is an unauthorized client, then the packet transmits it to the honeypot server. Our experiment has demonstrated that this particular approach can successfully identify unknown attacks with greater than 95% detection rate and less than 1% false alarm rate. [ABSTRACT FROM AUTHOR]; DOI: 10.5013/IJSSST.a.19.04.02; (AN 133416882), Database: Applied Science & Technology Source

Subjects: Computer security; Computer networks; Computer Systems Design Services; Honeypots (Network security)

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12. CONTEXTUAL EXPLANATION: ALTERNATIVE APPROACHES AND PERSISTENT CHALLENGES.

By: Avgerou, Chrisanthi. *MIS Quarterly*. Sep2019, Vol. 43 Issue 3, p977-A18. 48p. 13 Charts. Abstract: This paper identifies challenges facing the development of contextual theory in Information Systems research. The IS literature is examined to identify the variation of approaches through which IS research accounts for contextual influences in the formation of IS phenomena. The literature review reveals issues that require methodological and theoretical attention. These concern the generalization of context-specific research findings; the partiality of theory due to trade-offs of scale and detail; the development of sociomaterial perspectives of contextual influences on IS phenomena; and the challenge posed to contextual explanation from ontologies that give primacy to processes of continuous change over existing entities. From the exploration of these issues, comparative research is suggested as a promising approach to generalization; an argument is made for research framing with explicit consideration of scale of the context domain under inquiry to allow for the comparison and complementarity of research findings; alternative theoretical perspectives of context related with theories of technology and theories of action are identified; and directions toward the development of a sociomaterial perspective of context are suggested. [ABSTRACT FROM AUTHOR] DOI: 10.25300/MISQ/2019/13990. (AN: 138023139), Database: Computer Source

Subjects: SOCIAL informatics; INFORMATION storage & retrieval systems; METHODOLOGY; SOCIOMATERIALITY; CONTEXTUAL analysis

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13. **Distributed Network Systems : From Concepts to Implementations**

By: Jia, Weijia; Zhou, Wanlei. Series: Network Theory and Applications, v. 15. New York : Springer, 2005. eBook. Description: This textbook covers both theoretical and practical aspects of distributed computing. It describes the client-server model for developing distributed network **systems**, the communication paradigms used in a distributed network **system**, and the principles of reliability and security in the design of distributed network **systems**. Based on theoretical introductions, the book presents various implementation strategies and techniques for building distributed network **systems**, including examples in TCP/IP communications, ... (AN 130165). Database: eBook Collection (EBSCOhost)

Subjects: **COMPUTERS** / Data Transmission **Systems** / General; **COMPUTERS** / Networking / Vendor Specific; **Computer networks**; Electronic data processing--Distributed processing

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14. **Data Division and Replication Approach for Improving Security and Availability of Cloud Storage**

In: 2018 Fourth International Conference on Computing Communication Control and Automation (ICCUBEA) Computing Communication Control and Automation (ICCUBEA), 2018 Fourth International Conference on. :1-4 Aug. 2018; IEEE Language: English. Abstract: Large, distributed network **systems** such as the Cloud cater to the immense data storage needs of people around the world. This data stored upon the cloud may be sensitive, which makes the Security aspect of these Cloud **systems** extremely imperative. The Cloud nodes **host** this data. If these nodes are compromised by a malicious entity then consequences may be dire. In this paper we have proposed and put forth the results of a **system** which will implement a storage methodology that uses the Division and Replication strategy for storing the data. In this **system**, the file will be fragmented and these fragments will be replicated according to the replication factor before storing it upon the cloud. The fragments are dispersed such that consecutive nodes on the Cloud do not hold the fragments of a same file and so that even if a node is compromised no significant information is leaked to the attacker. This **system** will enhance cloud security using Division and Replication of data in Cloud for Optimal Performance and Security (DROPS) methodology. This additional security will come without any cryptographic techniques being applied. Lack of these computation heavy cryptographic techniques will mean that security will come without the compromise of increasing the computation load. The **system** will analyze the performance of our methodology by portraying it in a virtual environment **comprising** of virtual machines which form a Cloud network. We will depict the results of our **system** and how it handled storing data onto the cloud. (AN: *edsee.8697355*), Database: IEEE Xplore Digital Library

Subjects: Communication, Networking and Broadcast Technologies; Components, Circuits, Devices and **Systems**; Computing and Processing; Robotics and Control **Systems**; Signal Processing and Analysis; Cloud computing; Cryptography; **Virtual** machining; Databases; **Computer** security; Image color analysis; Availability; Cloud; Data Fragments; Redundancy; Replication; Security; T – coloring

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15. Sustainable ICTs and Management **Systems** for
Green Computing

By: Kaabouch, Naima; Hu, Wen Chen. Hershey, PA : IGI Global. 2012.
eBook. Description: "This book focuses on information technology using
sustainable green computing to reduce energy and resources used"--
Provided by publisher. (AN 458135), Database: eBook Collection
(EBSCOhost)

Subjects: TECHNOLOGY & ENGINEERING / Electronics / Digital;
TECHNOLOGY & ENGINEERING / Electronics / Microelectronics; Electronic
data processing departments; Electronic apparatus and appliances--
Environmental aspects; **Computer** networks--Energy conservation;
Telecommunication--Energy conservation; Green technology; Electronic data
processing--Energy conservation

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16. Why build a **virtual brain**? Large-scale neural simulations as jump start for cognitive computing.

By: Colombo, Matteo. *Journal of Experimental & Theoretical Artificial Intelligence*. Apr2017, Vol. 29 Issue 2, p361-370. 10p. Abstract: Despite the impressive amount of financial resources recently invested in carrying out large-scale brain simulations, it is controversial what the pay-offs are of pursuing this project. One idea is that from designing, building, and running a large-scale neural simulation, scientists acquire knowledge about the computational performance of the simulating **system**, rather than about the neurobiological **system** represented in the simulation. It has been claimed that this knowledge may usher in a new era of neuromorphic, cognitive computing **systems**. This study elucidates this claim and argues that the main challenge this era is facing is not the lack of biological realism. The challenge lies in identifying general neurocomputational principles for the design of artificial **systems**, which could display the robust flexibility characteristic of biological intelligence. [ABSTRACT FROM AUTHOR] DOI: 10.1080/0952813X.2016.1148076. (AN: 120687120), Database: Computer Source

Subjects: MEDICAL simulation; BRAIN research; NEURAL conduction; SIMULATION methods & models; REALISM

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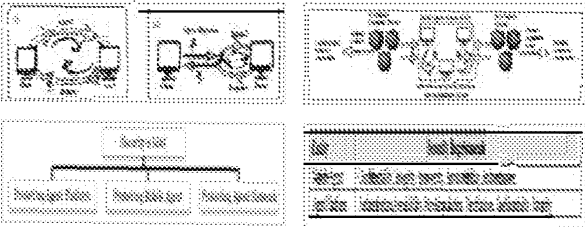
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17. **Mobile Agents System Security: A Systematic Survey.**

By: BAGGA, PALLAVI; HANS, RAHUL. *ACM Computing Surveys*, Nov2017, Vol. 50 Issue 5, p65:1-65:45, 45p, 6 Diagrams, 14 Charts, 2 Graphs Abstract: A pivotal cause for the boom of Mobile Agent paradigm relies on the competence to ward off security attacks. This article surveys the prevalent attacks on the mobile agents and the agent platforms; the existing countermeasures and their curbs, catering threefold benefaction: First, to acquaint the researchers with numerous security requirements and the objectives. Second, to analyze the different detection and prevention mechanisms mitigating the security bottlenecks in Mobile Agents **System**. Third, to address the future security challenges. In a nutshell, this survey hands over a key to researchers who primarily target the security concerns of the mobile agent-based applications. [ABSTRACT FROM AUTHOR]; DOI: 10.1145/3095797; (AN 125367039), Database: Applied Science & Technology Source

Subjects: User-centered **system** design; Cyberterrorism; Mobile agent **systems**; **Computer** security; **System** analysis

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18. **Multiagent Systems : A Modern Approach to Distributed Artificial Intelligence**

By: Weiss, Gerhard. Cambridge, Mass : The MIT Press. 1999. eBook.

Description: This is the first comprehensive introduction to multiagent systems and contemporary distributed artificial intelligence that is suitable as a textbook. The book provides detailed coverage of basic topics as well as several closely related ones. Unlike traditional textbooks, the book brings together many leading experts, guaranteeing a broad and diverse base of knowledge and expertise. It emphasizes aspects of both theory and application, and provides many illustrations and examples. Also included ... (AN 9368), Database: eBook Collection (EBSCOhost)

Subjects: **COMPUTERS** / Intelligence (AI) & Semantics; Intelligent agents (**Computer software**); Distributed artificial intelligence

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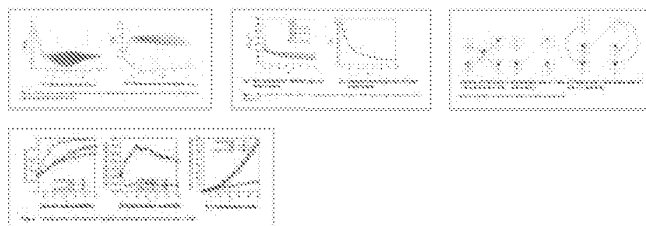
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19. **A novel robust on-line protocol for load-balancing in structured peer-to-peer systems.**

By: Tsatsanifos, George; Samoladas, Vasilis. *Computing*. Sep2012, Vol. 94 Issue 8-10, p731-762. 32p. 1 Diagram, 10 Graphs. Abstract: In this paper, we revisit the problem of load-balancing structured peer-to-peer systems with on-line protocols. Load-balancing is of major significance for large-scale decentralized networks in terms of enhanced scalability and performance. The main incentives behind balancing schemes are under-utilization of bandwidth and **computer** resources. Therefore, our methods focus mainly on task-skew. Specifically, we address the problem with on-line protocols on the basis of migration and enhanced availability. In particular, the cornerstones of our methods are the notions of **virtual** nodes, replication and Multiple realities, combined altogether with allocation techniques based on balls-in-bins games. The rationale of our dynamic protocol to depend exclusively on peer load distribution preserves intact the structural properties and search efficiency of the overlay used as an indexing infrastructure, while preserving the semantic information of the data (e.g., range partitioned network). We also propose an effective load-aware mechanism to facilitate robust operations that counteract against contingent churn failures. Finally, our work is complemented with extensive experiments using both real and synthetic data sets. [ABSTRACT FROM AUTHOR] DOI: 10.1007/s00607-012-0199-7. (AN: 79341424), Database: Computer Source

Subjects: **COMPUTER** network protocols; **ROBUST** control; **LOAD** balancing (**Computer** networks); **PEER**-to-peer architecture (**Computer** networks); **COMPUTER** networks; **SCALABILITY** (**Systems** engineering); **DISTRIBUTED** computing; **QUERYING** (**Computer** science); **DATA** replication

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20. **SYSTEM AND METHOD FOR PROVIDING
COMPUTER SERVICES**

By: Mays, Stephen Mark; Lovullo, JR., Joseph Anthony; Cai, Sandeep.

Patent Application: 13/261133. Filed: September 10, 2008. Published: June 14, 2012. , Database: USPTO Patent Applications

Abstract: A **computer system** and method for providing **computer services** to a user, comprising: a **virtual computer system** comprising at least one **virtual computer** that is created within the **virtual computer system**; a virtualization layer enabling the at least one **virtual computer** to utilize CPU, RAM and storage of a **host computer** within the **virtual computer system**; a **virtual computer selector** providing for the selection of the at least one **virtual computer** on an unscheduled basis; a **storage system**; and a streaming video content **system** for separating streaming video data into a graphical user interface component that contains data display information required by said terminal device in order to locate and draw a user interface and a video stream component that is displayed on a screen of the terminal device within the user interface.

AN: edspap.20120150992

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21. **Review on Smart Hospital Management System
Technologies**

By: Lakhous, Najeh. In: Research and Science Today, Vol. 17, pp. 187-204 (AN: edshol.hein.journals.rescito17.17), Database: HeinOnline

Subjects: General



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22. Multi-objective Swarm Intelligence schedulers for online scientific Clouds.

By: Pacini, Elina; Mateos, Cristian; Garino, Carlos. *Computing*. May2016, Vol. 98 Issue 5, p495-522. 28p. Abstract: Cloud Computing is a promising paradigm for parallel computing. However, as Cloud-based services become more dynamic, resource provisioning in Clouds becomes more challenging. The paradigm, with its promise of virtually infinite resources, seems to suit well in solving resource greedy scientific computing problems. In a Cloud, an appropriate number of **Virtual Machines (VM)** is created and allocated in physical resources for executing jobs. This work focuses on the Infrastructure as a Service (IaaS) model where custom VMs are launched in appropriate **hosts** available in a Cloud to execute scientific experiments coming from multiple users. Finding optimal solutions to allocate VMs to physical resources is an NP-complete problem, and therefore many heuristics have been developed. In this work, we describe and evaluate two Cloud schedulers based on Swarm Intelligence (SI) techniques, particularly Ant Colony Optimization (ACO) and Particle Swarm Optimization (PSO). The main performance metrics to study are the number of serviced users by the Cloud and the total number of created VMs in online (non-batch) scheduling scenarios. We also perform a sensitivity analysis by varying the specific-parameter values of each algorithm to evaluate the impact on the performance of the two objective metrics. The intra-Cloud network traffic is also measured. Simulated experiments performed using CloudSim and job data from real scientific problems show that the use of SI-based techniques succeeds in balancing the studied metrics compared to Genetic Algorithms. [ABSTRACT FROM AUTHOR] DOI: 10.1007/s00607-014-0412-y. (AN: 114679359), Database: Computer Source

Subjects: SWARM intelligence; **COMPUTER** scheduling; CLOUD computing; **VIRTUAL** machine **systems**; **COMPUTER** simulation

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23. **Handbook of Green Information and Communication Systems**

By: Woungang, Isaac; Anpalagan, Alagan; Obaidat, Mohammad S.
Amsterdam : Academic Press. 2013. eBook. Description: This book gives a comprehensive guide on the fundamental concepts, applications, algorithms, protocols, new trends and challenges, and research results in the area of Green Information and Communications **Systems**. It is an invaluable resource giving knowledge on the core and specialized issues in the field, making it highly suitable for both the new and experienced researcher in this area. Key Features: Core research topics of green information and communication **systems** are covered from a network ... (AN 485200), Database: eBook Collection (EBSCOhost)

Subjects: TECHNOLOGY & ENGINEERING / Signals & Signal Processing; SCIENCE / Environmental Science; Sustainable engineering--Handbooks, manuals, etc; Telecommunication--Environmental aspects--Handbooks, manuals, etc; Telecommunication--Energy conservation--Handbooks, manuals, etc

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24. **A Preliminary Evaluation of Australia's Tax Dispute Resolution System in the Context of the ATO's Reinvention Program**

By: Jone, Melinda. In: Australian Tax Forum, Vol. 34, Issue 3 (2019), pp. 513-550 (AN: edshol.hein.journals.austraxrum34.24), Database: HeinOnline

Subjects: Taxation Australian Law

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25. **A conceptual framework of information systems for organizational creativity support. lessons from empirical investigations.**

By: Olszak, Celina M.; Kisielnicki, Jerzy. *Information Systems Management*. 2018, Vol. 35 Issue 1, p29-48. 20p. 2 Diagrams, 5 Charts. Abstract: Based on a review of the subject literature, a conceptual framework of information systems for organizational creativity support is proposed. The most important elements in creating such a system are identified and described. Finally, the results of a survey conducted in twenty-five organizations are used to better understand the most important elements and factors determining the development of information systems for organizational creativity support. [ABSTRACT FROM AUTHOR] DOI: 10.1080/10580530.2017.1416945. (AN: 127365748), Database: Computer Source

Subjects: INFORMATION storage & retrieval systems; INFORMATION science; EMPIRICAL research; CREATIVE ability; ORGANIZATIONAL change

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26. **Computer Algebra Systems : A Practical Guide**

By: Wester, Michael J. New York : John Wiley and Sons, Inc. 1999. eBook. (AN 17892), Database: eBook Collection (EBSCOhost)

Subjects: MATHEMATICS / Algebra / Intermediate; Algebra--Data processing

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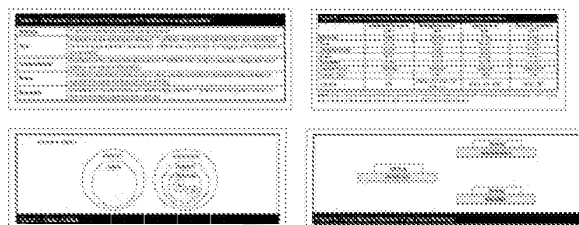
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27. THEORIZING THE DIGITAL OBJECT.

By: Faulkner, Philip; Runde, Jochen. *MIS Quarterly*. Dec2019, Vol. 43 Issue 4, p1-24. 24p. 3 Diagrams, 2 Charts. Abstract. Prompted by perceived shortcomings of prevailing conceptualizations of digital technology in IS, we propose a theory aimed at capturing both the ontological complexity of digital objects qua objects, and how their identity and use is bound up with various social associations. We begin with what it is to be an object, the differences between material and nonmaterial objects, and various categories of nonmaterial objects including syntactic objects and bitstrings. Building on these categories we develop a conception of digital objects and a novel "bearer" theory of how material and nonmaterial objects combine. The role of computation is considered, and how the identity and **system** functions of digital objects flow from their social positioning in the communities in which they arise. Various implications of the theory are identified, focusing on its use as a conceptual frame through which to view digital phenomena, and its potential to inform existing perspectives with regard both to how digital technology per se and the relationship between people and digital technology should be theorized. These implications are illustrated with reference to secondary markets for software, the treatment of digital resources in the resource-based, knowledge-based, and service-dominant logic views of organizing, and recent work on sociomateriality. [ABSTRACT FROM AUTHOR] DOI: 10.25300/MISQ/2019/13136. (AN: 138703130), Database: Computer Source

Subjects: DIGITAL technology; ELECTRONIC services; DIGITAL Object Identifiers; ASSOCIATION of ideas; INFORMATION resources; INFORMATION storage & retrieval **systems**

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28. Design and Test Technology for Dependable Systems-on-chip

By: Vierhaus, Heinrich Theodor; Raik, Jaan; Ubar, Raimund. Hershey, PA : IGI Global. 2010. eBook. Description: 'This book covers aspects of **system** design and efficient modelling, and also introduces various fault models and fault mechanisms associated with digital circuits integrated into **System** on Chip (SoC), Multi-Processor **System**-on Chip (MPSoC) or Network on Chip (NoC)'-- (AN 329154), Database: eBook Collection (EBSCOhost)

Subjects: TECHNOLOGY & ENGINEERING / Electronics / Circuits / Integrated; TECHNOLOGY & ENGINEERING / Electronics / Circuits / General; Networks on a chip--Testing; **Systems** on a chip--Design and construction; Networks on a chip--Design and construction; **Systems** on a chip--Testing

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29. Domain Oriented Systems Development: : Practices and Perspectives

By: Itoh, Kiyoshi; Kumagai, Satoshi; Hirota, Toyohiko. Series: Advanced Information Processing Technology, [v. 6]. London : CRC Press. 2003. eBook. Description: Domain Oriented **Systems** Development is the sixth volume in the Advanced Information Processing Technology series of the Information Processing Society of Japan. It draws together a collection of research papers on domain analysis and modeling written by a group of software engineers and researchers from Japan, Korea, Canada and Austria. The (AN 94407), Database: eBook Collection (EBSCOhost)

Subjects: COMPUTERS / **Systems** Architecture / General; COMPUTERS / Software Development & Engineering / General; COMPUTERS / Computer Engineering; **Computer** software--Reusability; **Computer** software--Development; **Systems** engineering--**Computer** programs

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30. Testing and evaluating **computer intrusion detection systems**.

By: Durst, Robert; Champion, Terrence; Witten, Brian. *Communications of the ACM*, July 1999, Vol. 42 Issue 7, p53-61, 9p Abstract: Part of a special section on defensive information warfare. A report on testing and evaluating **computer intrusion detection systems** is presented. Specific topics addressed are threats and attack techniques, fundamentals of intrusion detection, and the evaluation of intrusion detection **systems**.; DOI: 10.1145/306549.306571; (AN 500553647), Database: Applied Science & Technology Source

Subjects: United States; Air Force Research Laboratory (Edwards Air Force Base, Calif.); **Computer** software; **Computer** access control software; Testing; Intrusion detection **systems** (**Computer** security); Information warfare; **Computer** networks; **Computer** security; **Computer** hackers; Local area networks (**Computer** networks); Information networks; Data transmission **systems**; Internet

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1. **ASSESSING THE SERVICES, SECURITY THREATS, CHALLENGES AND SOLUTIONS IN THE INTERNET OF THINGS.**

By: ZAHRA, SYED RAMEEM; CHISHTI, MOHAMMAD AHSAN. *Scalable Computing: Practice & Experience*, Sep2019, Vol. 20 Issue 3, p457-484, 28p Abstract: The purpose of this paper is to chalk out the criticality of the most important pillar of the Internet of Things (IoT), i.e., **Security** and Privacy (S&P). IoT has seen its journey from implausible and impossible to sustainable and tenable. Its rate of expansion into various grounds from agriculture to sports; personal health to intelligent traffic detection; waste management to smart homes is astonishing, dramatic, and unforeseen. With such vast adaptability and functionality, its **security** remains the biggest concern because, in contrast to the traditional networks, IoT faces huge vulnerabilities, some of which are inherent and others explicit. The existing **security** solutions cannot be implemented in IoT because of its unique characteristics. Therefore, there is a dire need to develop novel **security** procedures befitting IoT. This paper spots the features that are peculiar to IoT and concurrently analyzes the **security threats**, and challenges they pose. This work also provides a glimpse of the major IoT implementations with their particular **security** requirements and challenges. Moreover, this paper critically evaluates the proposed countermeasures to **security** attacks on different features and why they cannot be used in IoT environments. Also, it is found that most of the **security** solutions used in IoT devices are inspired by Wireless Sensor Networks (WSN), but the striking differences among the two make them inadequate in IoT. The **security** requirements and challenges peculiar to various IoT services are also identified. To assist the researchers in remaining up-to-date, we for the first time have thoroughly expressed some of the most famous and practical attacks faced across the world in the recent past, how much damage they caused, how many financial losses were faced, etc. [ABSTRACT FROM AUTHOR]; DOI: 10.12694/scpe.v20i3.1544; (AN 138761845), Database: Applied Science & Technology Source

Subjects: Internet of things; Wireless sensor networks; Traffic monitoring; Home automation; Waste management; Computer systems **security** vulnerabilities; Home **security** measures; Home wireless technology; Architectural Services; Residential building construction; Other Building Finishing Contractors; Other Waste Collection; Waste treatment and disposal; Solid Waste Landfill; Waste collection; Other Support Activities for Road Transportation

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2. INTERNET ISOLATION FOR AVOIDING INTERNET SECURITY THREATS

Patent Application: 15/910734. Filed: March 02, 2018. Published: July 5, 2018. , Database: USPTO Patent Applications

Abstract: A host computer supports a virtual guest system running thereon. The host system has a firewall that prevents it from communicating directly with the Internet, except with predetermined trusted sites. The virtual guest runs on a hypervisor, and the virtual guest comprises primarily a browser program that is allowed to contact the Internet freely via an Internet access connection that is completely separate from the host computer connection, such as a dedicated network termination point with its specific Internet IP address, or by tunneling through the host machine architecture to reach the Internet without exposing the host system. The virtual guest system is separated and completely isolated by an internal firewall from the host, and the guest cannot access any of the resources of the host computer, except that the guest can initiate cut, copy and paste operations that reach the host, and the guest can also request print of documents. The host can transfer files to and from a virtual data storage area accessible by the guest by manual operator action. No other transfer of data except these user initiated actions is permitted.

AN: edspap.20180191684

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3. **Internet isolation for avoiding internet security threats**

By: Hoy, Robert B.; Fenkner, Mark; Farren, Sean W. US Patent: 9,942,198.
Filed: January 27, 2012. Issued: April 10, 2018. , Database: USPTO Patent Grants

Abstract: A host computer supports a virtual guest system running thereon. The host system has a firewall that prevents it from communicating directly with the **Internet**, except with predetermined trusted sites. The virtual guest runs on a hypervisor, and the virtual guest comprises primarily a browser program that is allowed to contact the **Internet** freely via an **Internet** access connection that is completely separate from the host computer connection, such as a dedicated network termination point with its specific **Internet** IP address, or by tunneling through the host machine architecture to reach the **Internet** without exposing the host system. The virtual guest system is separated and completely isolated by an internal firewall from the host, and the guest cannot access any of the resources of the host computer, except that the guest can initiate cut, copy and paste operations that reach the host, and the guest can also request print of documents. The host can transfer files to and from a virtual data storage area accessible by the guest by manual operator action. No other transfer of data except these user initiated actions is permitted.

AN: edspgr.09942198

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4. INTERNET ISOLATION FOR AVOIDING INTERNET SECURITY THREATS

Patent Application: 13/981896. Filed: January 27, 2012. Published: November 28, 2013. , Database: USPTO Patent Applications

Abstract: A host computer supports a virtual guest system running thereon. The host system has a firewall that prevents it from communicating directly with the Internet, except with predetermined trusted sites. The virtual guest runs on a hypervisor, and the virtual guest comprises primarily a browser program that is allowed to contact the Internet freely via an Internet access connection that is completely separate from the host computer connection, such as a dedicated network termination point with its specific Internet IP address, or by tunneling through the host machine architecture to reach the Internet without exposing the host system. The virtual guest system is separated and completely isolated by an internal firewall from the host, and the guest cannot access any of the resources of the host computer, except that the guest can initiate cut, copy and paste operations that reach the host, and the guest can also request print of documents. The host can transfer files to and from a virtual data storage area accessible by the guest by manual operator action. No other transfer of data except these user initiated actions is permitted.

AN: edspap.20130318594

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5. Deriving Cyber Security Risks from Human and Organizational Factors - A Socio-technical Approach.

By: McEvoy, Thomas Richard; Kowalski, Stewart James. *Complex Systems Informatics & Modeling Quarterly*. Mar/Apr2019, Issue 18, p47-64. 18p.

Abstract: Cyber security risks are socio-technical in nature. They result not just from technical vulnerabilities but also, more fundamentally, from the degradation of working practices over time - which move an organization across the boundary of secure practice to a place where attacks will not only succeed, but also have a significantly greater impact on the organization. Yet current risk analysis and management methodologies are not designed to detect these kinds of systemic risks. We present an approach, devised in the field, to deriving these risks - using a qualitative research methodology, akin to grounded theory, but based on preset coding descriptors. This allows organizational and individual behavior identified during interviews, observations or document research to be thematically analyzed, collated and mapped to potential risks, linked to poor working practices. The resulting risk factors can be linked together forming "risk narratives", showing how the degradation of working practices in one part of the organization can contribute to undermining its ability to respond to cyber security threats in another part of the organization. [ABSTRACT FROM AUTHOR] DOI: 10.7250/csimq.2019-18.03. (AN: 136234486), Database: Engineering Source

Subjects: INTERNET security; ORGANIZATIONAL behavior; ICE shelves; QUALITATIVE research methodology; SYSTEMIC risk (Finance); RISK assessment; COMPUTER crime prevention

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6. CLOUD COMPUTING: MAJOR CHALLENGES AND COUNTER ACTS.

By: Ashraf, Arjmand; Jawad, M. Abdul. *International Journal of Advanced Research in Computer Science*, Mar/Apr2018, Vol. 9 Issue 2, p618-625, 8p

Abstract: Although Cloud Computing has remarkably provided us easy accessible, manageable and maintainable resources at effective costs, but due to the fact that all or multiple users are allocated with the similar resources present **security threats** to the cloud subscribers. It is well known fact that in cloud paradigm, the data and applications are always under the control of third party, which give rise to serious concerns among the cloud subscribers. Cloud computing attracts the attention of research community due to its potential to provide tremendous benefits to the industry and cloud subscribers, but it lingers because of the **security**, privacy, and trust issues with Cloud subscribers. If Cloud Service Provider's (CSP's) are being able to provide efficient **security** tools, the utilization of services will rise exponentially and it will soon become globally accepted computing. This paper provides state of the art of major **security** challenges in the cloud paradigm and the countermeasures to counteract with the **security** breaches. [ABSTRACT FROM AUTHOR]; DOI: 10.26483/ijarcs.v9i2.5861; (AN 130548878), Database: Applied Science & Technology Source

Subjects: Cloud computing; Internet service providers; Client/server computing; Computer network architects; Data warehousing; Wired Telecommunications Carriers; All Other Telecommunications; Other telecommunications; Data Processing, Hosting, and Related Services

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7. Authoritarianism and the Internet

By: Druzin, Bryan; Gordon, Gregory S.. In: *Law & Social Inquiry*, Vol. 43, Issue 4 (Fall 2018), pp. 1427-1457 (AN: edshol.hein.journals.lsociq43.68), Database: HeinOnline

Subjects: Illinois; Psychology/Sociology

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8. The Role of Instructional Design in Persuasion: A Comics Approach for Improving Cybersecurity.

By: Zhang-Kennedy, Leah; Chiasson, Sonia; Biddle, Robert. *International Journal of Human-Computer Interaction* , 2016, Vol. 32 Issue 3, p215-257, 43p, 1 Illustration, 2 Diagrams, 12 Charts, 2 Graphs Abstract: Although computer security technologies are the first line of defense to secure users, their success is dependent on individuals' behavior. It is therefore necessary to persuade users to practice good computer security. This interview analysis of users' conceptualization of security password guessing attacks, antivirus protection, and mobile online privacy shows that poor understanding of security threats influences users' motivation and ability to practice safe behaviors. An online interactive comic series called Secure Comics was designed and developed based on instructional design principles to address this problem. An eye-tracking experiment suggests that the graphical and interactive components of the comics direct users' attention and facilitate comprehension of the information. In the evaluations of Secure Comics, results from several user studies show that the comics improve understanding and motivate positive changes in security management behavior. The implication of the findings to better understand the role of instructional design and persuasion in education technology are discussed. [ABSTRACT FROM AUTHOR]; DOI: 10.1080/10447318.2016.1136177; (AN 113304630), Database: Applied Science & Technology Source

Subjects: Computer security; Instructional systems design; Passwords (Computers); Antivirus software; Internet security; Security management; Wired Telecommunications Carriers; Internet Publishing and Broadcasting and Web Search Portals; Persuasive technology; Internet privacy

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9. Computer and Information **Security** Handbook

By: Vacca, John R. Series: The Morgan Kaufmann Series in Computer **Security**. Amsterdam : Morgan Kaufmann, 2009. eBook. Description: Presents information on how to analyze risks to your networks and the steps needed to select and deploy the appropriate countermeasures to reduce your exposure to physical and network **threats**. Also imparts the skills and knowledge needed to identify and counter some fundamental **security** risks and requirements, including **Internet security threats** and measures (audit trails IP sniffing/spoofing etc.) and how to implement **security** policies and procedures. In addition, this book covers **security** and network ... (AN 248986), Database: eBook Collection (EBSCOhost)

Subjects: COMPUTERS / Networking / General; COMPUTERS / **Security** / General; Computer networks--**Security** measures

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10. Analysis of physical and cyber **security**-related events in the chemical and process industry.

By: Moreno, Valeria Casson; Reniers, Genserik; Salzano, Ernesto; Cozzani, Valerio. *Process Safety & Environmental Protection: Transactions of the Institution of Chemical Engineers Part B*. May2018, Vol. 116 Issue Part B, p621-631. 11p. Abstract: **Security threats** are becoming an increasing concern for chemical sites and related infrastructures where relevant quantities of hazardous materials are processed, stored or transported. In the present study, **security** related events that affected chemical and process sites, and related infrastructures, were investigated. The aim of the study is to frame a clear picture of the **threats** affecting the chemical and process industry, and to issue lessons learnt from past events. A database of 300 **security**-related accidents was developed and populated, starting from European and American sources. **Threat** categories that caused such events were identified and analyzed. The attack modes were investigated. Important differences were found with respect to geographical areas and industrial sectors affected. The use of explosives (both military and improvised explosive devices) is by far the more frequent attack mode, although armed attacks and arson are also frequent events and may result in an in-depth penetration of the attackers. In recent years, cyber-attacks are also posing important **threats**. Lessons learnt call for the implementation of a specific **security** management system in the chemical and process industry, aiming at the physical and cyber protection of industrial sites. [ABSTRACT FROM AUTHOR] DOI: 10.1016/j.psep.2018.03.026. (AN: 130426201), Database: Environment Complete

Subjects: Industrial safety; Chemical industry; Risk assessment; Chemical (except agricultural) and allied product merchant wholesalers; Other Chemical and Allied Products Merchant Wholesalers; All Other Basic Organic Chemical Manufacturing; Cyclic Crude, Intermediate, and Gum and Wood Chemical Manufacturing; Wired Telecommunications Carriers; **Internet** Publishing and Broadcasting and Web Search Portals; Cyberterrorism; **Internet security**

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11. Practical UNIX and Internet Security

By: Garfinkel, Simson; Spafford, Gene. Series: Computer Security. Edition: 2nd ed., expanded & updated. Bonn : O'Reilly Media. 1996. eBook. (AN 24630). Database: eBook Collection (EBSCOhost)

Subjects: COMPUTERS / Security / General; COMPUTERS / Operating Systems / UNIX; Operating systems (Computers); Computer security; Internet--Congresses

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12. Risk and the Small-Scale Cyber **Security** Decision Making Dialogue--a UK Case Study.

By: Osborn, Emma; Simpson, Andrew. *Computer Journal*, Apr2018, Vol. 61 Issue 4, p472-495, 24p. Publisher: Oxford University Press / USA.; Abstract Despite a long-standing understanding that developments in personal and cloud computing practices would change the way we approach **security**, small-scale IT users (SSITUs) remain ill-served by existing cyber **security** practices. This paper discusses results from a survey that considered (in part) cyber **security** decisions made by SSITUs. We determine that SSITUs are focusing on easy-to-implement technical measures, leading to a disconnect between the **security** implemented and any risks identified; available resources, knowledge, prioritization of business processes, reduced system control and a lack of **threat** intelligence all combine to limit the ability to make cyber **security** decisions; and assessing risk in SSITUs will not lead to sufficient investment to mitigate risks for risk-holding stakeholders in the supply chain. We conclude that the constraints faced by SSITUs have far greater impact on the decisions they make than either our risk-holding, or **security**-providing, participants may have anticipated. Any limitations faced by SSITUs as they make their **security** decisions will have a significant impact on both the measures they are able to apply and the **security** of the supply chain as a whole. [ABSTRACT FROM AUTHOR]; (AN 128782999), Database: Complementary Index

Subjects: Internet Publishing and Broadcasting and Web Search Portals; Wired Telecommunications Carriers; Data Processing, Hosting, and Related Services; **INTERNET security**; **COMPUTER security**; INFORMATION technology; CYBERTERRORISM; CLOUD computing; DATA protection

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13. Weaving Tangled Webs: Offense, Defense, and Deception in Cyberspace.

By: Gartzke, Erik; Lindsay, Jon R. *Security Studies*. Apr-Jun2015, Vol. 24 Issue 2, p316-348. 33p. Abstract: It is widely believed that cyberspace is offense dominant because of technical characteristics that undermine deterrence and defense. This argument mistakes the ease of deception on the Internet for a categorical ease of attack. As intelligence agencies have long known, deception is a double-edged sword. Covert attackers must exercise restraint against complex targets in order to avoid compromises resulting in mission failure or retaliation. More importantly, defenders can also employ deceptive concealment and ruses to confuse or ensnare aggressors. Indeed, deception can reinvigorate traditional strategies of deterrence and defense against cyber threats, as computer security practitioners have already discovered. The strategy of deception has other important implications: as deterrence became foundational in the nuclear era, deception should rise in prominence in a world that increasingly depends on technology to mediate interaction. [ABSTRACT FROM AUTHOR] DOI: 10.1080/09636412.2015.1038188. (AN: 103363905), Database: Academic Search Complete

Subjects: INTERNET security; CYBERTERRORISM; COUNTERTERRORISM; DECEPTION; DISINFORMATION; Internet Publishing and Broadcasting and Web Search Portals; Wired Telecommunications Carriers

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14. SEC Cybersecurity Guidelines: Insights Into the Utility of Risk Factor Disclosures for Investors.

By: Morse, Edward A.; Raval, Vasant; Wingender Jr., John R. *Business Lawyer*. 12/1/2017, Vol. 73 Issue 1, p1-34. 34p. 5 Charts. Abstract: In October 2011, the SEC issued new guidelines for disclosure of cybersecurity risks. Some firms responded to these guidelines by issuing new risk factor disclosures. This article examines the guidelines and cybersecurity disclosures in the context of existing laws governing securities regulation. It then examines empirical results from firm disclosures following the new guidelines. Evidence shows a relatively small proportion of firms chose to modify their risk factor disclosures, with most firms choosing not to disclose any specific cybersecurity risk. Moreover, disclosing firms generally experienced significant negative stock market price effects on account of making new disclosures. Rather than viewing disclosure as a positive signal of management attentiveness, investors apparently viewed it as a cautionary sign. [ABSTRACT FROM AUTHOR] (AN: 127499189), Database: Business Source Complete

Subjects: Investment risk; Disclosure of information; Investor confidence; Public companies; Good faith (Law); United States. **Securities** & Exchange Commission; Regulation, Licensing, and Inspection of Miscellaneous Commercial Sectors; **Internet security** laws; **Securities** -- United States

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15. Dual cooperative RFID-telecare medicine information system authentication protocol for healthcare environments.

By: Benssalah, Mustapha; Djeddou, Mustapha; Drouiche, Karim. *Security & Communication Networks*, Dec2016, Vol. 9 Issue 18, p4924-4948, 25p

Abstract: Radio Frequency IDentification (RFID) technology is used in a wide variety of applications, more recently as a leading identification technology in healthcare environments. In the most recent years, this technology has been adopted for telecare medicine information system (TMIS) for authentication, safety, security, data confidentiality, and patient's privacy protection over public networks. TMIS is the bridge between patients at home and doctors at healthcare organizations that permits to validate the correctness of exchanged information between different actors of the system. Recently, several RFID and smart cards authentication schemes have been presented and suggested for the TMIS in the literature. These schemes try to resolve the security and privacy problems over insecure healthcare network environments by exploiting different cryptographic primitive's solutions. In this paper, we first highlighted the vulnerabilities of the most recent proposed protocol for TMIS in the literature and proposed attacks based on the weaknesses related to the misuse of the timestamp technique, the calculation of the reader request and tag response messages using the one-way hash function, which are not attentively scrutinized. Second, we propose an efficient dual RFID-TMIS mobile authentication protocol with high efficiency and security for healthcare systems. Our proposal is an improvement and extension of the protocol of Li et al., where we propose to associate the RFID technology with TMIS in the same authentication system to take advantages of both these two promising technologies. The performance analysis shows that our improved protocol could solve security weaknesses of the studied protocol and provide mobility, efficiency and is well suited for TMIS adoption in remote areas and low population density. Copyright © 2016 John Wiley & Sons, Ltd. [ABSTRACT FROM AUTHOR]; DOI: 10.1002/sec.1665; (AN 122199477), Database: Applied Science & Technology Source

Subjects: Telemedicine; Computer access control; Radio frequency identification systems; Internet protocols; Internet security; Information storage & retrieval system security measures; Wired Telecommunications Carriers; Internet Publishing and Broadcasting and Web Search Portals; Electronic components, navigational and communications equipment and supplies merchant wholesalers

PDF Full Text (764KB) USPTO Full Text Options

16. What good cyber resilience looks like.

By: Hult, Fredrik; Sivanesan, Giri. *Journal of Business Continuity & Emergency Planning*. Winter2013/2014, Vol. 7 Issue 2, p112-125. 14p.

Abstract: Over the past few years, a rapidly increasing number of sophisticated cyber attacks targeting high-profile organisations have been reported in the media. With the growing realisation of the severity and scale of the cyber threat, many security leaders are now questioning the effectiveness of just meeting compliance with information security standards and IT security control frameworks - can compliance provide organisations with the assurance that they are effectively managing the risk from cyber attacks? While an organisation may be able to take a tick-box approach to adopting foundational security practices, will this ensure a genuine commitment to defending the organisation? This paper looks to bring a perspective on cyber resilience in the context of a paradigm shift from regulatory information security compliance to adversarial cyber security to articulate the attributes of a cyber-resilient organisation. The aim is to give executives tools to determine whether their organisation is cyber resilient and to illustrate what good cyber resilience looks like today. [ABSTRACT FROM AUTHOR] (AN: 94779801), Database: Business Source Complete

Subjects: Computer network security; Cyberterrorism; Internet Publishing and Broadcasting and Web Search Portals; Wired Telecommunications Carriers; Internet security; Counterterrorism; Information technology security measures; Cyber intelligence (Computer security)

PDF Full Text (10.2MB) USPTO Full Text Options

17. Trust and Risk in Internet Commerce

By: Camp, L. Jean. Cambridge, Mass : The MIT Press, 2000. eBook.

Description: As Internet-based commerce becomes commonplace, it is important that we examine the systems used for these financial transactions. Underlying each system is a set of assumptions, particularly about trust and risk. To evaluate systems, and thus to determine one's own risks, requires an understanding of the dimensions of trust: security, privacy, and reliability. In this book Jean Camp focuses on two major yet frequently overlooked issues in the design of Internet commerce systems—trust and risk. Trust ... (AN 34347). Database: eBook Collection (EBSCOhost)

Subjects: COMPUTERS / Computer Science; Electronic commerce--
Security measures; Internet--Security measures; Business enterprises--
Computer networks--Security measures

[PDF Full Text](#) [USPTO Full Text Options](#) [Full Download](#)

[Table of Contents](#) [Most Relevant Pages From This eBook](#)

18. Survey on synchrophasor data quality and cybersecurity challenges, and evaluation of their interdependencies.

By: SUNDARARAJAN, Aditya; KHAN, Tanwir; MOGHADASI, Amir; SARWAT, Arif I.. *Journal of Modern Power Systems & Clean Energy*, May2019, Vol. 7 Issue 3, p449-467, 19p. Publisher: Springer Nature.; Abstract Synchrophasor devices guarantee situation awareness for real-time monitoring and operational visibility of smart grid. With their widespread implementation, significant challenges have emerged, especially in communication, data quality and cybersecurity. The existing literature treats these challenges as separate problems, when in reality, they have a complex interplay. This paper conducts a comprehensive review of quality and cybersecurity challenges for synchrophasors, and identifies the interdependencies between them. It also summarizes different methods used to evaluate the dependency and surveys how quality checking methods can be used to detect potential cyberattacks. This paper serves as a starting point for researchers entering the fields of synchrophasor data analytics and security. [ABSTRACT FROM AUTHOR]; (AN 136274856), Database: Complementary Index

Subjects: Wired Telecommunications Carriers; Internet Publishing and Broadcasting and Web Search Portals; Computer systems design and related services (except video game design and development); Other Computer Related Services; DATA quality; INTERNET security; SITUATIONAL awareness; DATA security; PHASOR measurement; CYBER intelligence (Computer security)

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USPTO Full Text Options

19. Administrator and Fidelity Based Secure Routing (AFSR) Protocol in MANET.

By: Singh, Rohit; Saha, Himadri Nath; Bhattacharyya, Debika; Banerjee, Pranab Kumar. *Journal of Computing & Information Technology* , 2016, Vol. 24 Issue 1, p31-43, 13p Abstract: The proliferation of mobile computing and communication devices are driving a revolutionary change in our information society. Among all the applications and services run by mobile devices, network connections and corresponding data services are without doubt the most demanded services by mobile users. A MANET is a continuously self-configuring, infrastructure-less network of mobile devices connected without wires, which makes it ideal for the present scenario. But, due to lack of any centralized infrastructure and access to trusted authorities, the security in MANET poses a huge threat. The prominent routing protocols we know are generally designed for environments where the nodes within a network are non-malicious. Due to the vulnerable nature of the mobile ad hoc network, there are numerous security threats that disturb its development. We propose a protocol for MANETs named "Administrator and Fidelity Based Secure Routing Protocol" (AFSR), which ensures secure routing through the network: by electing an Administrator node on the basis of Willingness and Fidelity, after which a node only communicates to that secure Admin node. This selection of secured admin nodes results in mitigation of various threats. We have evaluated our proposed protocol by simulating and comparing in GloMoSim. [ABSTRACT FROM AUTHOR]; DOI: 10.20532/cit.2016.1002634; (AN 114682357), Database: Applied Science & Technology Source

Subjects: Network routing protocols; Ad hoc computer networks; Mobile computing; Mobile communication systems; **Internet**; **Internet** Publishing and Broadcasting and Web Search Portals; Wired Telecommunications Carriers; Wireless Telecommunications Carriers (except Satellite); Information society

PDF Full Text (2.2MB) USPTO Full Text Options

20. Freedom to Hack

By: Kilovaty, Ido. In: Ohio State Law Journal, Vol. 80, Issue 3 (2019), pp. 455-520 (AN: edshol.hein.journals.ohslj80.20), Database: HeinOnline

Subjects: Ohio; General

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21. A SURVEY ON DELAY AND NEIGHBOR NODE MONITORING BASED WORMHOLE ATTACK PREVENTION AND DETECTION.

By: Bagade, Sudhir T.; Raisinghani, Vijay T.. *ICTACT Journal on Communication Technology*, Dec2016, Vol. 7 Issue 4, p1417-1426, 10p
Abstract: In Mobile Ad-hoc Networks (MANET), network layer attacks, for example wormhole attacks, disrupt the network routing operations and can be used for data theft. Wormhole attacks are of two types: hidden and exposed wormhole. There are various mechanisms in literature which are used to prevent and detect wormhole attacks. In this paper, we survey wormhole prevention and detection techniques and present our critical observations for each. These techniques are based on cryptographic mechanisms, monitoring of packet transmission delay and control packet forwarding behavior of neighbor nodes. We compare the techniques using the following criteria- extra resources needed applicability to different network topologies and routing protocols, prevention/detection capability, etc. We conclude the paper with potential research directions. [ABSTRACT FROM AUTHOR]; DOI: 10.21917/ijct.2016.0209; (AN 120697897), Database: Applied Science & Technology Source

Subjects: Cyberterrorism; Counterterrorism; Data security; Internet security; Routing (Computer network management); Cryptography; Internet Publishing and Broadcasting and Web Search Portals; Wired Telecommunications Carriers; Other Computer Related Services; Computer systems design and related services (except video game design and development)

PDF Full Text (257KB) USPTO Full Text Options

22. Method and system for preventing and detecting security threats

By: Irdeto B.V. US Patent: 10242,184. Filed: November 05, 2017. Issued: March 26, 2019. , Database: USPTO Patent Grants

Abstract: A system and method is provided for implementing platform **security** on a consumer electronic device having an open development platform. The device is of the type which includes an abstraction layer operable between device hardware and application software. A secured software agent is provided for embedding within the abstraction layer forming the operating system. The secured software agent is configured to limit access to the abstraction layer by either blocking loadable kernel modules from loading, blocking writing to the system call table or blocking requests to attach debug utilities to certified applications or kernel components.

AN: edspgr.10242184

USPTO Full Text Options

23. **Security** and privacy issues for the network of the future.

By: Marias, Giannis F.; Barros, João; Fiedler, Markus; Fischer, Andreas; Hauff, Harald; Herkenhoener, Ralph; Grillo, Antonio; Lentini, Alessandro; Lima, Luisa; Lorentzen, Charlott; Mazurczyk, Wojciech; Meer, Hermann; Oliveira, Paulo F.; Polyzos, George C.; Pujol, Enric; Szczypiorski, Krzysztof; Vilela, João P.; Vinhoza, Tiago T. V.. *Security & Communication Networks*, Sep2012, Vol. 5 Issue 9, p987-1005, 18p Abstract: ABSTRACT The vision towards the Network of the Future cannot be separated from the fact that today's networks, and networking services are subject to sophisticated and very effective attacks. When these attacks first appeared, spoofing and distributed denial-of-service attacks were treated as apocalypse for networking. Now, they are considered moderate damage, whereas more sophisticated and inconspicuous attacks, such as botnets activities, might have greater and far reaching impact. As the Internet is expanding to mobile phones and 'smart dust' and as its social coverage is liberalized towards the realization of ubiquitous computing (with communication), the concerns on **security** and privacy have become deeper and the problems more challenging than ever. Re-designing the Internet as the Network of the Future is self-motivating for researchers, and **security** and privacy cannot be provided again as separate, external, add-on, solutions. In this paper, we discuss the **security** and privacy challenges of the Network of the Future and try to delimit the solutions space on the basis of emerging techniques. We also review methods that help the quantification of **security** and privacy in an effort to provide a more systematic and quantitative treatment of the area in the future. Copyright © 2011 John Wiley & Sons, Ltd. [ABSTRACT FROM AUTHOR]; DOI: 10.1002/sec.384; (AN 79293922), Database: Applied Science & Technology Source

Subjects: Computer network **security**; Computer privacy; Ubiquitous computing; **Internet security**; Wired Telecommunications Carriers; **Internet** Publishing and Broadcasting and Web Search Portals; Apocalypse; Quantitative research

[PDF Full Text](#) (312KB) [USPTO Full Text Options](#)

24. REGULATING CYBER-SECURITY.

By: Sales, Nathan Alexander. *Northwestern University Law Review*. Summer2013, Vol. 107 Issue 4, p1503-1568. 66p. Abstract: The conventional wisdom is that this country's privately owned critical infrastructure--banks, telecommunications networks, the power grid, and so on--is vulnerable to catastrophic cyber-attacks. The existing academic literature does not adequately grapple with this problem, however, because it conceives of cyber-security in unduly narrow terms: most scholars understand cyber-attacks as a problem of either the criminal law or the law of armed conflict. Cyber-security scholarship need not run in such established channels. This Article argues that, rather than thinking of private companies merely as potential victims of cyber-crimes or as possible targets in cyber-conflicts, we should think of them in administrative law terms. Many firms that operate critical infrastructure tend to underinvest in cyber-defense because of problems associated with negative externalities, positive externalities, free riding, and public goods-- the same sorts of challenges the modern administrative state faces in fields like environmental law, antitrust law, products liability law, and public health law. These disciplines do not just yield a richer analytical framework for thinking about cyber-security; they also expand the range of possible responses. Understanding the problem in regulatory terms allows us to adapt various regulatory solutions--such as monitoring and surveillance to detect malicious code, hardening vulnerable targets, and building resilient and recoverable systems--for the cyber-security context. In short, an entirely new conceptual approach to cyber-security is needed. [ABSTRACT FROM AUTHOR] (AN: 93286781), Database: Academic Search Complete

Subjects: INTERNET security; GOVERNMENT regulation; STATE power; COMPUTER network security; ADMINISTRATIVE law; Internet Publishing and Broadcasting and Web Search Portals; Wired Telecommunications Carriers

PDF Full Text (672KB) USPTO Full Text Options

25. **A Server-Side JavaScript Security Architecture for Secure Integration of Third-Party Libraries.**

By: van Ginkel, Neline; De Groef, Willem; Piessens, Frank; Massacci, Fabio.
Security & Communication Networks, 5/2/2019, p1-21, 21p Abstract: The popularity of the JavaScript programming language for server-side programming has increased tremendously over the past decade. The Node.js framework is a popular JavaScript server-side framework with an efficient runtime for cloud-based event-driven architectures. One of its strengths is the presence of thousands of third-party libraries which allow developers to quickly build and deploy applications. These very libraries are a source of **security threats** as a vulnerability in one library can (and in some cases did) compromise an entire server. In order to support the secure integration of libraries, we developed NODESENTRY, the first **security** architecture for server-side JavaScript. Our policy enforcement infrastructure supports an easy deployment of web hardening techniques and access control policies on interactions between libraries and their environment, including any dependent library. We discuss the design and implementation of NODESENTRY and present its performance and **security** evaluation. [ABSTRACT FROM AUTHOR]; DOI: 10.1155/2019/9629034; (AN 136199504), Database: Applied Science & Technology Source

Subjects: JavaScript (Computer program language); Cloud computing; Computer network **security**; Client/server computing; Libraries and Archives; Commercial and Institutional Building Construction; Libraries; Data Processing, Hosting, and Related Services; Libraries

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26. Autonomous Vehicles for Smart and Sustainable Cities: An In-Depth Exploration of Privacy and Cybersecurity Implications.

By: Lim, Hazel Si Min; Taelhagh, Araz. *Energies* (19961073). May2018, Vol. 11 Issue 5, p1062. 1p. 1 Diagram. Abstract: Amidst rapid urban development, sustainable transportation solutions are required to meet the increasing demands for mobility whilst mitigating the potentially negative social, economic, and environmental impacts. This study analyses autonomous vehicles (AVs) as a potential transportation solution for smart and sustainable development. We identified privacy and cybersecurity risks of AVs as crucial to the development of smart and sustainable cities and examined the steps taken by governments around the world to address these risks. We highlight the literature that supports why AVs are essential for smart and sustainable development. We then identify the aspects of privacy and cybersecurity in AVs that are important for smart and sustainable development. Lastly, we review the efforts taken by federal governments in the US, the UK, China, Australia, Japan, Singapore, South Korea, Germany, France, and the EU, and by US state governments to address AV-related privacy and cybersecurity risks in-depth. Overall, the actions taken by governments to address privacy risks are mainly in the form of regulations or voluntary guidelines. To address cybersecurity risks, governments have mostly resorted to regulations that are not specific to AVs and are conducting research and fostering research collaborations with the private sector. [ABSTRACT FROM AUTHOR] DOI: 10.3390/en11051062. (AN: 132396988), Database: Energy & Power Source

Subjects: AUTONOMOUS vehicles; **INTERNET security**; Internet Publishing and Broadcasting and Web Search Portals; Wired Telecommunications Carriers



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27. I U: Considering the Context of Online Threats

By: Lidsky, Lyrisa Barnett; Norbut, Linda Riedemann. In: California Law Review, Vol. 106, Issue 6 (December 2018), pp. 1885-1930 (AN: edshol.hein.journals.calr106.56), Database: HeinOnline

Subjects: California; General



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28. NETWORK PROACTIVE DEFENSE MODEL BASED ON IMMUNE DANGER THEORY.

By: Yu WANG; Zhenxing WANG; Liancheng ZHANG; Yazhou KONG. *Computing & Informatics*, 2015, Vol. 34 Issue 5, p1089-1112, 24p Abstract: Recent investigations into proactive network defense have not produced a systematic methodology and structure; in addition, issues including multi-source information fusion and attacking behavior analysis have not been resolved. Borrowing ideas of danger sensing and immune response from danger theory, a proactive network defense model based on danger theory is proposed. This paper defines the signals and antigens in the network environment as well as attacking behavior analysis algorithm, providing evidence for future proactive defense strategy selection. The results of preliminary simulations demonstrate that this model can sense the onset of varied network attacks and corresponding endangered intensities, which help to understand the attack methods of hackers and assess the security situation of the current network, thus a better proactive defense strategy can be deployed. Moreover, this model possesses good robustness and accuracy. [ABSTRACT FROM AUTHOR]; (AN 112950690), Database: Applied Science & Technology Source

Subjects: Computer network security; Internet security; Information technology security measures; Computer security; Cyberterrorism; Wired Telecommunications Carriers; Internet Publishing and Broadcasting and Web Search Portals

PDF Full Text (8.5MB) USPTO Full Text Options

29. **Cybersecurity and Offshore Oil: The Next Big Threat**

By: Crandal, Jamie. In: ONE J: Oil and Gas, Natural Resources, and Energy Journal, Vol. 4, Issue 6 (March 2019), pp. 703-736 (AN: *edshol.hein.journals.onej4.61*), Database: HeinOnline

Subjects: Oklahoma; Oil and Gas Law



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30. **Reviewing Cyber Security Social Engineering Training and Awareness Programs—Pitfalls and Ongoing Issues.**

By: Aldawood, Hussain; Skinner, Geoffrey. *Future Internet*, Mar2019, Vol. 11 Issue 3, p73-73, 1p. Publisher: MDPI Publishing.; Abstract The idea and perception of good cyber security protection remains at the forefront of many organizations' information and communication technology strategy and investment. However, delving deeper into the details of its implementation reveals that organizations' human capital cyber security knowledge bases are very low. In particular, the lack of social engineering awareness is a concern in the context of human cyber security risks. This study highlights pitfalls and ongoing issues that organizations encounter in the process of developing the human knowledge to protect from social engineering attacks. A detailed literature review is provided to support these arguments with analysis of contemporary approaches. The findings show that despite state-of-the-art cyber security preparations and trained personnel, hackers are still successful in their malicious acts of stealing sensitive information that is crucial to organizations. The factors influencing users' proficiency in threat detection and mitigation have been identified as business environmental, social, political, constitutional, organizational, economical, and personal. Challenges with respect to both traditional and modern tools have been analyzed to suggest the need for profiling at-risk employees (including new hires) and developing training programs at each level of the hierarchy to ensure that the hackers do not succeed. [ABSTRACT FROM AUTHOR]; (AN 135682631), Database: Complementary Index

Subjects: Wired Telecommunications Carriers; Internet Publishing and Broadcasting and Web Search Portals; **INTERNET security**; SOCIAL engineering; CYBER intelligence (Computer security); SOCIAL security; TRAINING of engineers; INFORMATION & communication technologies



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Virtual device context (VDC) integration for network services

S Sharma, NG Soni, R Desai, C Feng... - US Patent 9,178,912, 2015 - Google Patents
 ... 3 illustrates an example network 300 with an integrated VDC on a network switch 326 and extended to include a service node 302, according to one ... As noted, each service node 302, 304 may provide a variety of network management functions/services for traffic processed ...

☆  Cited by 51 Related articles All 4 versions 

Machine learning based intrusion detection system for software defined networks

A Abubakar, B Pranggono - 2017 Seventh International ..., 2017 - ieeexplore.ieee.org
 ... V. CONCLUSION Software Defined Networks as an emerging technology bring innovation into the networking, with ... SDN as a new technology has arising issues that pose a challenge to ... The paper present machine learning (Neural Network) based intrusion detection for SDN ...

☆  Cited by 19 Related articles All 4 versions

Secured session sequencing proxy system and method therefor

WJ Yarborough, JJ Zhuang - US Patent 6,718,388, 2004 - Google Patents
 ... Method for evolving detectors to detect malign behavior in an artificial immune system ... Accessing SSL connection data by a third-party. US8849716B1 (en), 2001-04-20, 2014-09-30, Jpmorgan Chase Bank, NA, System and method for preventing identity theft or misuse by ...

☆  Cited by 80 Related articles All 2 versions 

Trusted compartmentalized computer operating system

PA McNabb, PS Slavin, CJ Hanson... - US Patent ..., 2001 - Google Patents
 ... For example, applications such as web browsers are typically configured to listen to a particular network interface to identify data destined for that application program where the program responds to and generates information that is directed through an Internet network ...

☆  Cited by 352 Related articles All 2 versions 

Firewall system and method via feedback from broad-scope monitoring for intrusion detection

JA Aaron, T Anschutz - US Patent 6,715,084, 2004 - Google Patents
 ... Each network device can be considered a node because each device has an addressable interface ... and processing center receives all communications (ie, the data) originating from a user on the computer network 204 and flowing to host 220 (and vice versa), for example, as ...

☆  Cited by 118 Related articles All 4 versions 

System and method for network address translation integration with IP security

EB Boden, TA Monroe - US Patent 6,832,322, 2004 - Google Patents
 ... definitions. For this application, identifier types are not particularly relevant. When specifying a specific instance of NAT in, for, example, an IP Sec Policy database, the user makes a yes/no decision in, say, a check-box. As ...

☆  Cited by 97 Related articles All 2 versions 

Distributed virtual system to support managed, network-based services

AR Matthews, A Naveed - US Patent 7,818,452, 2010 - Google Patents
 ... In such an embodiment, the system VR may aggregate traffic from the first set of VRs and the ... In one embodiment, a first configured topology is defined among the first set of VRs by configuring virtual interfaces (VIs) of the first set of VRs to provide desired paths for packet flows ...

☆  Cited by 304 Related articles All 4 versions 

Method and apparatus for managing a firewall

Y Bartal, AJ Mayer, A Wool - US Patent 7,146,639, 2006 - Google Patents
 ... receive an assignment of said roles to said hosts in said network; and, generate rules for said hosts based on said assigned roles, said rules determining whether a packet is passed ... A system for generating a security policy for a network, said network including a plurality of ...

☆  Cited by 85 Related articles All 4 versions 

A survey of intrusion detection techniques in cloud

C Modi, D Patel, B Borisaniya, H Patel, A Patel... - ... of network and computer ..., 2013 - Elsevier
 ... www.filecluster.com/Network-Tools/Network-Monitoring/Download-XArp.html) is an efficient available ... NIDS can be deployed on Cloud server interacting with external network, for detecting network ... It cannot help when attack is within a virtual network that runs entirely inside the ...

☆  Cited by 684 Related articles All 21 versions

Firewall configured with dynamic membership sets representing machine attributes

D Basak, R Toshniwal, A Sequeira - US Patent 9,621,516, 2017 - Google Patents

... 258 causes the **firewall** manger 108 to generate **a separate** source **machine** identifier portion of a **firewall** for each **machine** ... matching module 260 matches each attribute in the destination **machine** dependent condition of the selected policy rule to **an** attribute reported ...

☆ ⓘ Cited by 129 Related articles All 4 versions ⓘ

Self-isolating and self-healing networked devices

R Yavalkar, A Crouch, DM Durham - US Patent 8,154,987, 2012 - Google Patents

... When the USB hub has been disabled, all USB-compliant **devices** coupled with the hub are ... can only access the **network** to download the latest security patches to bring the **machine** up to ... the **one or more processors** to: receive an updated operating profile from a remote **device**; ...

☆  Cited by 38 Related articles All 4 versions 

Use of network address translation for implementation of stateful routing

IB Aroya - US Patent 7,634,805, 2009 - Google Patents

... 8. The method as recited in claim 1, wherein the addresses further **comprises** internet protocol (IP) addresses ... **System and Method for Providing Data and Device Security Between External and Host Devices** ... **System and method for providing network security to mobile devices** ...

☆  Cited by 80 Related articles All 4 versions 

Systems and methods for transparent configuration authentication of networked devices

U Erlingsson, X Boyen, D Anderson, W Gray - US Patent 8,090,951, 2012 - Google Patents

... a bus 636 which couples **processor** 634 and **memory** 635, a mass storage **device** 637 (eg ... readable medium on the client and server systems, such as mass storage **devices** 627 and ... Examples of program instructions include **machine** code, such as produced by a compiler, and ...

☆  Cited by 115 Related articles All 4 versions 

System and method for providing network and computer firewall protection with dynamic address isolation to a device

S Touboul - US Patent 10,057,295, 2018 - Google Patents

... and computer **firewall** protection with dynamic address **isolation** to a **device**. Download PDF ... 08-21 Application granted granted Critical 2019-08-26 Application status is Active legal ... 230000000670 limiting Effects 0 Description 1; 230000015654 **memory** Effects 0 Description ...

☆  Cited by 224 Related articles All 2 versions 

System and method for securing networks

J Van De Groenendaal - US Patent 8,225,379, 2012 - Google Patents

... 1, wherein determining that the particular **one** of the identified authorized **devices** is bridging the first **network** and a second **network** **comprises** ... **System and method for validating a location of an untrusted device** ... **System and method for migrating agents between mobile devices** ...

☆  Cited by 267 Related articles All 4 versions 

Denali: Lightweight virtual machines for distributed and networked applications

A Whitaker, M Shaw, SD Gribble - 2002 - cs.ucla.edu

... We **use** the OSKit as a hardware abstraction layer to simplify interactions with **devices**, page tables ... **use** Denali's inter-rupt and timer models, and linked the stack against a **device** driver for ... context switch time starts at 3.9 microseconds for a single virtual **machine**, and increases ...

☆  Cited by 402 Related articles All 19 versions 

System, method, and apparatus for providing network security

T Xaypanya, RE Malinowski - US Patent 9,332,028, 2016 - Google Patents

... ANNI 232 may also determine the **network** topology for other **devices** residing behind a firewall ... Unknown or uncertain packets can be sent to a **machine** learning HPC blade on ... executed within the proactive security mechanism 108 or any other security **device** described herein ...

☆  Cited by 84 Related articles All 4 versions 

Systems and methods for suppressing denial of service attacks

D Ohlen - US Patent 10,277,626, 2019 - Google Patents

... may also be stored as contents (eg, as executable or other **machine**-readable software ... computer-readable medium and/or **one or more** associated computing systems or **devices** to execute or ... denial of service attacks, the system **comprising**: a first computing **device** that includes ...

☆  Cited by 129 Related articles All 2 versions 

A survey of network virtualization

NMMK Chowdhury, R Boutaba - *Computer Networks*, 2010 - Elsevier

... The VPN states are stored in PE **devices**, and a connected CE **device** behaves as if it ... to allow service providers to simultaneously run **multiple** end-to-end services over **equipment** owned by ... Finally, with the increasing number of mobile and wireless **devices** and the onset of ...

☆  Cited by 1367 Related articles All 17 versions

NetVM: High performance and flexible networking using virtualization on commodity platforms

J Hwang, KK Ramakrishnan, ... - ... *Transactions on Network ...*, 2015 - ieeexplore.ieee.org

... in many cases, to fully exploit the agility benefits of virtual **machine-based network** ... 8: NetVM's architecture spans the guest and host systems; an emulated PCI **device** is used to ... The connection is implemented with a socket-type chardev with "-chardev socket,path=<path>,id=<id> ...

☆  Cited by 358 Related articles All 17 versions



1. NETWORK ISOLATION

Patent Application: 16/059381. Filed: August 09, 2018. Published: February 14, 2019. . Database: USPTO Patent Applications

Abstract: Methods and systems are disclosed for isolation of communications between a host computer system and one or more untrusted network destinations. An Internet isolation system may include a network, one or more host computer systems, a border firewall, an authorization device, and/or a proxy device. The Internet isolation system may be configured to implement network isolation between one or more untrusted network destinations, the one or more host computer systems, and/or the network. The network isolation may be implemented via one or more of a host-based firewall on each of the one or more host computer systems, the border firewall, the authorization device, the proxy device, an internal isolation firewall on each of the one or more host computer systems, and/or a segregation of a trusted memory space and an untrusted memory space on each of the one or more host computer systems.

AN: edspap.20190052604

USPTO Full Text Options

2. DATA EXFILTRATION SYSTEM AND METHODS

Patent Application: 16/144609. Filed: September 27, 2018. Published: March 28, 2019. . Database: USPTO Patent Applications

Abstract: A **host computer system** may be configured to connect to a **network**. The **host computer system** may be configured to implement a workspace and an isolated computing environment. The **host computer system** may be configured to isolate the isolated computing environment from the workspace using an internal **isolation firewall**. The internal **isolation firewall** may be configured to prevent data from being communicated **between** the isolated computing environment and the workspace, for example, without an explicit user input. When malware is received by the isolated computing environment, the internal **isolation firewall** may be configured to prevent the malware from accessing data on the workspace of the **host computer system**. The **host computer system** may be configured to implement one or more mechanisms that prevent malware received by the **host computer system** from exfiltrating, to a **network** destination, data from the **host computer system** and data from other devices on the **network**.

AN: edspap.20190097974

USPTO Full Text Options

3. SYSTEMS AND METHODS FOR COMMAND AND CONTROL PROTECTION

Patent Application: 16/146490. Filed: September 28, 2018. Published: March 28, 2019. , Database: USPTO Patent Applications

Abstract: A **host computer system** may be **configured** to connect to a **network**. The **host computer system** may be **configured** to implement a workspace and an isolated computing environment. The **host computer system** may be **configured** to isolate the isolated computing environment from the workspace using an internal **isolation firewall**. The internal **isolation firewall** may be **configured** to prevent data from being communicated **between** the isolated computing environment and the workspace, for example, without an explicit user input. The **host computer system** may be **configured** to implement one or more mechanisms that prevent malware received by the **host computer system** from receiving external communications from an external source. The one or more mechanisms may be **configured** to prevent control of the malware by the external source. The one or more mechanisms may be **configured** to prevent the malware from establishing a command channel with the external source.

AN: edspap.20190098020

USPTO Full Text Options

4. DOCUMENT ISOLATION

Patent Application: 16/138696. Filed: September 21, 2018. Published: March 28, 2019. , Database: USPTO Patent Applications

Abstract: Methods and **systems** are disclosed for document **isolation**. A **host computer system** may be **configured** to implement document **isolation** via one or more of a **host-based firewall**, an internet **isolation firewall**, and/or a segregation of a trusted memory space and an untrusted memory space. The **host computer system** may be **configured** to access one or more files using a first set of one or more applications and/or processes operating within the trusted memory space and/or a second set of one or more applications and/or processes operating within an untrusted memory space. The **host computer system** may be **configured** to open (e.g., always open) the one or more accessed files in the trusted memory space of the **host computer system**.

AN: edspap.20190097972

USPTO Full Text Options

5. HOST PROCESS AND MEMORY SEPARATION

Patent Application: 16/144761. Filed: September 27, 2018. Published: March 28, 2019. . Database: USPTO Patent Applications

Abstract: A **host computer system** may be configured to connect to a **network**. The **host computer system** may be configured to implement a workspace, an isolated computing environment, and a **host-based firewall**. The **host computer system** may be configured to isolate the isolated computing environment from the workspace using an **internal isolation firewall**. The **internal isolation firewall** may be configured to prevent data from being communicated **between** the isolated computing environment and the workspace, for example, without an explicit user input. The **host computer system** may be configured to determine, using one or more environmental indicators, a relative location of the **host computer system**. The processor may be configured to select a **firewall policy** based on the relative location of the **host computer system**. The **firewall policy** may include a configuration to apply to one or more of the **internal isolation firewall** or the **host-based firewall**.

AN: edspap.20190097975

USPTO Full Text Options

6. BROWSER SWITCHING SYSTEM AND METHODS

Patent Application: 16/146149. Filed: September 28, 2018. Published: March 28, 2019. , Database: USPTO Patent Applications

Abstract: A **host computer system** may be **configured** to connect to a **network**. The **host computer system** may be **configured** to implement a workspace and an isolated computing environment. The **host computer system** may be **configured** to isolate the isolated computing environment from the workspace using an internal **isolation firewall**. The **host computer system** may be **configured** to receive a request to communicate with a first **network** destination. On a condition that the first **network** destination is determined to be trusted, the processor may be **configured** to communicate with the first **network** destination via a first browser process **executed** in the workspace. On a condition that the first **network** destination is determined to be untrusted, the processor may be **configured** to communicate with the first **network** destination via a second browser process **executed** in the isolated computing environment.

AN: edspap.20190097977

USPTO Full Text Options

7. NETWORK ISOLATION FOR COLLABORATION SOFTWARE

Patent Application: 16/141535. Filed: September 25, 2018. Published: March 28, 2019. , Database: USPTO Patent Applications

Abstract: Methods and **systems** are disclosed for **isolation** of collaboration software on a **host computer system**. A networked computer system may include a **network**, a first **host computer system**, a border **firewall** and/or a web proxy. The **host computer system** may be **configured** to run a collaboration software application or process that enables interaction with one or more other **host computer systems**. The collaboration software application or process may be run within an untrusted memory space. The collaboration software application or process may enable interaction **between** a second **host computer system** and the untrusted memory space such that the second **host computer system** may access meeting data within a sandboxed computing environment operating within the untrusted memory space.

AN: edspap.20190097971

USPTO Full Text Options

8. **NETWORK ISOLATION WITH CLOUD NETWORKS**

Patent Application: 16/141378. Filed: September 25, 2018. Published: March 28, 2019. , Database: USPTO Patent Applications

Abstract: **Systems** and methods are disclosed for a sandbox **based network isolation system** configured to protect cloud based assets. A **host computer system** may include a processor and a memory. The **host computer system** may include a workspace. One or more applications may run in the workspace via a first memory space (e.g., a trusted memory space). The **host computer system** may include an isolated computing environment. One or more isolated applications may run in the isolated computing environment via a second memory space (e.g., an untrusted memory space). The isolated computing environment may be isolated from the workspace by an **internal isolation firewall**. The **internal isolation firewall** may prevent communication **between** the isolated computing environment and the workspace.

AN: edspap.20190097970

USPTO Full Text Options

9. **Researchers Submit Patent Application, 'Network Isolation', for Approval (USPTO 20190052604)**

In: Politics & Government Week. March 7, 2019, 15310; NewsRX LLC
Language: English. Abstract: 2019 MAR 7 (VerticalNews) -- By a News Reporter-Staff News Editor at Politics Government Week -- From Washington, D.C., VerticalNews journalists report that a patent application by the inventors Coleman, [...] (AN: edsgcl.576737255), Database: Gale Academic OneFile



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10. CONFIGURABLE INTERNET ISOLATION AND SECURITY FOR MOBILE DEVICES

Patent Application: 16/163884. Filed: October 18, 2018. Published: April 25, 2019. , Database: USPTO Patent Applications

Abstract: **Systems**, methods, and instrumentalities are disclosed for providing configurable and customizable internet **isolation** and security schemes for a mobile device. A mobile device (e.g., a cell phone, smart phone, tablet, Internet of Things (IoT) device, etc.) may include a processor and a memory. The mobile device may be **configured to implement** a workspace and an isolated computing environment. The workspace may enable operation of a set of applications (e.g., trusted applications) via a memory space (e.g., a trusted memory space). The isolated computing environment may enable operation of a set of one or more applications (e.g., untrusted applications) via a memory space (e.g., an untrusted memory space). The untrusted applications may include, for example, one or more of an Internet browser, an email application, a document editing application, or a social media application. The untrusted applications may communicate with one or more untrusted **network** destinations via a **network**.

AN: edspap.20190121962

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11. **METHOD AND SYSTEM FOR NETWORK
ACCESS CONTROL BASED ON TRAFFIC
MONITORING AND VULNERABILITY
DETECTION USING PROCESS RELATED
INFORMATION**

Patent Application: 16/445067. Filed: June 18, 2019. Published: October 3, 2019. , Database: USPTO Patent Applications

Abstract: Disclosed are various embodiments of method and **system** for **network** access control. The method may involve traffic monitoring and vulnerability detection using process information. The **system** may analyze the vulnerability as a process malfunctioning where preventive action focuses on process blocking as opposed to **host** blocking, which can lead to improved performance and productivity of a **network**. Techniques may use process related information, connection information, and **network** packet information for **network** control. The information may be matched against a plurality of signatures to identify and detect a known vulnerability in **network** activities. On the basis of a match, a verification report may be established. Techniques may further check whether a verification report is applicable to a process associated with a **network** packet and allow or block the process running on the **host based** in the report.

AN: edspap.20190306181

USPTO Full Text Options

12. Computer and Information Security Handbook

By: Vacca, John R. Series: The Morgan Kaufmann Series in Computer Security. Amsterdam : Morgan Kaufmann. 2009. eBook. Description: Presents information on how to analyze risks to your **networks** and the steps needed to select and deploy the appropriate countermeasures to reduce your exposure to physical and **network** threats. Also imparts the skills and knowledge needed to identify and counter some fundamental security risks and requirements, including Internet security threats and measures (audit trails IP sniffing/spoofing etc.) and how to **implement** security policies and procedures. In addition, this book covers security and **network** ... (AN 248986), Database: eBook Collection (EBSCOhost)

Subjects: **COMPUTERS** / Networking / General; **COMPUTERS** / Security / General; **Computer networks**--Security measures

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13. Distribution and Management of Services in Virtual Environments

Patent Application: 16/439239. Filed: June 12, 2019. Published: September 26, 2019. , Database: USPTO Patent Applications

Abstract: Distribution and management of services in virtual environments is described herein. In one or more implementations, a service distribution and management model is implemented in which **system** services and applications are seamlessly distributed across multiple containers which each **implement** a different runtime environment. In one or more implementations, a **system** for distributing access to services in a **host** operating **system** of a computing device includes a **host** operating **system** **configured** to **implement** a **host** runtime environment, and one or more services implemented by the **host** operating **system**. The **system** further includes a service control manager **configured** to enable communication **between** a client stub of a service implemented in a client runtime environment and a service provider of the service that is implemented in a service runtime environment that is separate from the first client runtime environment.

AN: edspap.20190297116

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14. A novel architecture of Proxy-LMA mobility management scheme for software-based smart factory networking.

By: Cho, Chulhee; Chung, Tai-Myoung. *International Journal of Communication Systems*. Aug2018, Vol. 31 Issue 12, p1-1. 18p. Abstract: Summary: Mobile users expect a **network** service, in which seamless handoff occurs while moving on a next generation wireless **network**. In addition, in smart factories (SFs), communication is required **between** factory floor and manufacturing zone, as well as connectivity towards office IT, or remote production facilities that are connected via wide area **network** or internet. For this purpose, interworking **between** heterogeneous **networks** is important, but there has been little research on global mobility support. Therefore, this paper proposes Proxy-LMA technology, a mobile IP-based global internetworking **system**, to improve global mobility and interoperability in the SFs **network** environment. The purpose of the proposed Proxy-LMA **system** is to support global mobility by using mobility management protocols such as PMIPv6 and MIPv6 in heterogeneous **network** environment. As a result of the performance evaluation, Proxy-LMA **system** is more efficient than other methods in terms of signaling cost and response delay in heterogeneous **network** environment. Software-based networking in SFs enables them to easily adapt the communication **network** to changing requirements. Similar to cloud-based **systems**, such SFs could be seen as production clusters that could be rented and **configured** as needed. The SF **network** uses software-defined networking combined with **network** functions virtualization, to achieve the required flexibility. Despite the fact that the technology is nowadays not yet ready for deployment in today's manufacturing **networks**, a novel **network** architecture for SFs based on software-defined networking and **network** virtualization is here proposed, to support smart services, especially for Industrie 4.0. [ABSTRACT FROM AUTHOR] DOI: 10.1002/dac.3584. (AN: 130505168), Database: Academic Search Complete

Subjects: MOBILITY management (Mobile radio); INTERNETWORKING; **COMPUTER** software; ARTIFICIAL neural **networks**; SIGNALS & signaling; **Computer**, **computer** peripheral and pre-packaged software merchant wholesalers; **Computer** and **Computer** Peripheral Equipment and Software Merchant Wholesalers; **Computer** and software stores; Software publishers (except video game publishers)

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15. **Method and system for network access control based on traffic monitoring and vulnerability detection using process related information**

By: Sophos Limited. US Patent: 10313,367. Filed: December 18, 2015.

Issued: June 04, 2019. , Database: USPTO Patent Grants

Abstract: Disclosed are various embodiments of method and **system** for **network** access control. The method may involve traffic monitoring and vulnerability detection using process information. The **system** may analyze the vulnerability as a process malfunctioning where preventive action focuses on process blocking as opposed to **host** blocking, which can lead to improved performance and productivity of a **network**. Techniques may use process related information, connection information, and **network** packet information for **network** control. The information may be matched against a plurality of signatures to identify and detect a known vulnerability in **network** activities. On the basis of a match, a verification report may be established. Techniques may further check whether a verification report is applicable to a process associated with a **network** packet and allow or block the process running on the **host based** in the report.

AN: edspgr.10313367

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16. **Researchers Submit Patent Application, 'Sandbox Based Internet Isolation In An Untrusted Network', for Approval (USPTO 20190007257)**

In: Information Technology Newsweekly. Jan 22, 2019, 4599; NewsRX LLC

Language: English. Abstract: 2019 JAN 22 (VerticalNews) -- By a News Reporter-Staff News Editor at Information Technology Newsweekly -- From Washington, D.C., VerticalNews journalists report that a patent application by the inventors Weinstein, [...] (AN: edsgcl.575451220), Database: Gale General OneFile

Subjects: United States; New York; Telecommunications equipment industry; Internet; L3 Technologies, Inc. -- Intellectual property; Telecommunications equipment industry -- Intellectual property



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17. 'Browser Switching **System** And Methods' in Patent Application Approval Process (USPTO 20190097977)

In: **Computer Weekly News**. April 17, 2019, 1320; NewsRX LLC Language: English. Abstract: 2019 APR 17 (VerticalNews) -- By a News Reporter-Staff News Editor at **Computer Weekly News** -- A patent application by the inventors Martz, Peter (Marlton, NJ); Moritz, Kenneth (Lansdowne, PA); [...] (AN: edsgcl.582284685), Database: Gale General OneFile

Subjects: United States; Telecommunications equipment industry; Technology application; L3 Technologies, Inc. -- Intellectual property; L3 Technologies, Inc. -- Technology application; Telecommunications equipment industry -- Intellectual property; Telecommunications equipment industry -- Methods; Telecommunications equipment industry -- Technology application

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18. Distribution and management of services in virtual environments

By: Microsoft Technology Licensing, LLC. US Patent: 10333,985. Filed: March 16, 2017. Issued: June 25, 2019. , Database: USPTO Patent Grants Abstract: Distribution and management of services in virtual environments is described herein. In one or more implementations, a service distribution and management model is implemented in which **system** services and applications are seamlessly distributed across multiple containers which each **implement** a different runtime environment. In one or more implementations, a **system** for distributing access to services in a **host** operating **system** of a computing device includes a **host** operating **system** configured to **implement** a **host** runtime environment, and one or more services implemented by the **host** operating **system**. The **system** further includes a service control manager configured to enable communication **between** a client stub of a service implemented in a client runtime environment and a service provider of the service that is implemented in a service runtime environment that is separate from the first client runtime environment.

AN: edspgr.10333985

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19. 'Configurable Internet Isolation And Security For Laptops And Similar Devices' in Patent Application Approval Process (USPTO 20190121961)

In: Information Technology Newsweekly. May 14, 2019, 1146; NewsRX LLC
Language: English. Abstract: 2019 MAY 14 (VerticalNews) -- By a News
Reporter-Staff News Editor at Information Technology Newsweekly -- A
patent application by the inventors Coleman, Glenn (Berwyn, PA); Martz,
Peter (Marlton, NJ); [...] (AN: edsgcl.585176527), Database: Gale General
OneFile

Subjects: United States; Telecommunications equipment industry; Internet
security; Laptop/portable **computer**; L3 Technologies, Inc. -- Intellectual
property; Telecommunications equipment industry -- Intellectual property;
Internet -- Safety and security measures; Laptop **computers**; Notebook
computers



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20. Distribution and Management of Services in Virtual Environments

Patent Application: 16/277575. Filed: February 15, 2019. Published: June 13,
2019. , Database: USPTO Patent Applications

Abstract: Distribution and management of services in virtual environments is
described herein. In one or more implementations, a service distribution and
management model is implemented in which **system** services and
applications are seamlessly distributed across multiple containers which
each **implement** a different runtime environment. In one or more
implementations, a **system** for distributing access to services in a **host**
operating **system** of a computing device includes a **host operating system**
configured to implement a host runtime environment, and one or more
services implemented by the **host operating system**. The **system** further
includes a service control manager **configured** to enable communication
between a client stub of a service implemented in a client runtime
environment and a service provider of the service that is implemented in a
service runtime environment that is separate from the first client runtime
environment.

AN: edspap.20190182295

USPTO Full Text Options

21. Patent Application Titled 'Service Provider
Advanced Threat Protection' Published Online
(USPTO 20190068617)

In: Information Technology Newsweekly. March 19, 2019, 1900; NewsRX
LLC Language: English. Abstract: 2019 MAR 19 (VerticalNews) -- By a News
Reporter-Staff News Editor at Information Technology Newsweekly --
According to news reporting originating from Washington, D.C., by
VerticalNews journalists, a patent application [...] (AN: edsgcl.578807990),
Database: Gale General OneFile

Subjects: United States; Telecommunications equipment industry; L3
Technologies, Inc. -- Intellectual property; Telecommunications equipment
industry -- Intellectual property



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22. Enhancing IoT security through **network** softwarization and virtual security appliances.

By: Molina Zarca, Alejandro; Bernal Bernabe, Jorge; Farris, Ivan; Khettab, Yacine; Taleb, Tarik; Skarmeta, Antonio. *International Journal of Network Management*, Sep/Oct2018, Vol. 28 Issue 5, p1-1, 18p. Publisher: John Wiley & Sons, Inc.; Abstract Summary: Billions of Internet of Things (IoT) devices are expected to populate our environments and provide novel pervasive services by interconnecting the physical and digital world. However, the increased connectivity of everyday objects can open manifold security vectors for cybercriminals to perform malicious attacks. These threats are even augmented by the resource constraints and heterogeneity of low-cost IoT devices, which make current **host-based** and static perimeter-oriented defense mechanisms unsuitable for dynamic IoT environments. Accounting for all these considerations, we reckon that the novel softwarization capabilities of Telco **network** can fully leverage its privileged position to provide the desired levels of security. To this aim, the emerging software-defined networking (SDN) and **network** function virtualization (NFV) paradigms can introduce new security enablers able to increase the level of IoT **systems** protection. In this paper, we design a novel policy-based framework aiming to exploit SDN/NFV-based security features, by efficiently coupling with existing IoT security approaches. A proof of concept test bed has been developed to assess the feasibility of the proposed architecture. The presented performance evaluation illustrates the benefits of adopting SDN security mechanisms in integrated IoT environments and provides interesting insights in the policy enforcement process to drive future research. [ABSTRACT FROM AUTHOR]; (AN 131777577), Database: Complementary Index

Subjects: INTERNET of things; CYBERCRIMINALS; HETEROGENEITY; SOFTWARE-defined networking (**Computer network** technology); HARDWARE Trojans (**Computers**)

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23. The Industrial Communication Technology Handbook

By: Zurawski, Richard. Series: The Industrial Information Technology Series, Vol. 1. Boca Raton, Fla : CRC Press, 2005. eBook. Description: The Industrial Communication Technology Handbook focuses on current and newly emerging communication technologies and **systems** that are evolving in response to the needs of industry and the demands of industry-led consortia and organizations. Organized into two parts, the text first summarizes the basics of data communications and IP **networks**, then presents a comprehensive overview of the field of industrial communications. This book extensively covers the areas of fieldbus technology, industrial Ethernet ... (AN 154212). Database: eBook Collection (EBSCOhost)

Subjects: TECHNOLOGY & ENGINEERING / Sensors; **COMPUTERS** / Computer Engineering; **Computer networks**; Data transmission **systems**; Wireless communication **systems**

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24. Telemetry analysis **system** for physical process anomaly detection

By: Accenture Global Solutions Limited. US Patent: 10148,686. Filed: February 10, 2017. Issued: December 04, 2018. , Database: USPTO Patent Grants

Abstract: **Systems**, methods, and apparatus, including **computer** programs encoded on **computer** storage media, for analyzing telemetry data from physical process sensors to detect anomalies within the physical process. A telemetry analytics **system** is disclosed as a process level anomaly detection **system** based on operational telemetrics and domain-specific knowledge that protects cyber physical **system** (CPS) devices against zero-day exploits not detectable through traditional **system** log or **network** packet inspection. The telemetry analytics **system** operates as a security component comparable to intrusion detection or anti-virus/anti-malware that generates alerts upon detecting anomalies in the sensor and/or activity data ingested from **system** or **network** data sources.

AN: edspgr.10148686

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25. FAULT INTRUSION TOLERANCE IN CLOUD COMPUTING.

By: Koliçi, Viadi; Stefa, Pandi; Tafa, Igli. *Proceedings of the International Conference on Information Technologies*. 2016, p242-250. 9p. Abstract: Recently cloud computing is one of the fastest growing segment in the IT industry. Cloud environment is vulnerable towards attacks or intrusions, but it has to be safe and reliable for its clients, to provide them access to the wide area. To have a more secure cloud infrastructure, is used Intrusion Detection and Tolerance **system**. An intrusion detection, tolerance **system** has the ability to diagnose itself, repair and reconfigure, providing a safe cloud environment against hard attacks. So, the goal of this paper is to analyse some of the techniques used to detect intrusion attacks and to have a tolerant intrusion **system**. [ABSTRACT FROM AUTHOR] (AN: 133494501), Database: Computers & Applied Sciences Complete

Subjects: Fault currents; Intrusion detection **systems** (Computer security); **Computer network** security; Distributed computing; Cloud storage

[PDF Full Text \(737KB\)](#) [USPTO Full Text Options](#)

26. Distribution and Management of Services in Virtual Environments

Patent Application: 15/460599. Filed: March 16, 2017. Published: July 12, 2018. , Database: USPTO Patent Applications

Abstract: Distribution and management of services in virtual environments is described herein. In one or more implementations, a service distribution and management model is implemented in which **system** services and applications are seamlessly distributed across multiple containers which each **implement** a different runtime environment. In one or more implementations, a **system** for distributing access to services in a **host** operating **system** of a computing device includes a **host** operating **system** **configured to implement a host** runtime environment, and one or more services implemented by the **host** operating **system**. The **system** further includes a service control manager **configured to enable communication between** a client stub of a service implemented in a client runtime environment and a service provider of the service that is implemented in a service runtime environment that is separate from the first client runtime environment.

AN: edspap.20180198824

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27. Data Network Design

By: Spohn, Darren L. Series: McGraw-Hill Series on Computer Communications. Edition: 2nd ed. New York : McGraw-Hill Professional, 1997. eBook. Description: Includes index. (AN 23088), Database: eBook Collection (EBSCOhost)

Subjects: **COMPUTERS** / Data Transmission **Systems** / General; **COMPUTERS** / Networking / Vendor Specific; **Computer networks**; **Computer network** protocols; **Computer networks--Standards**; **Computer network** architectures

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28. Secured connections to external networks.

By: Blanding, Steven F. *Information Systems Security*. Summer98, Vol. 7 Issue 2, p56. 16p. 9 Diagrams. Abstract: Focuses on the security requirements of a private network which carries sensitive data between local computers to protect the privacy and integrity of the traffic. Identification of areas of security that should be considered with connections to external networks; Development of security policies for user identification and authorization and software import controls; Discussion on security policy statements that address connections to external networks. DOI: 10.1201/1086/43303.7.2.19980601/31042.8. (AN: 951172), Database: Computer Source

Subjects: COMPUTER network security

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29. High-Speed Cisco Networks : Planning, Design, and Implementation

By: Vacca, John R. Boca Raton, Fla : Auerbach Publications. 2002. eBook. Description: Cisco's routers, hubs, and switches are the core of both the Internet and today's high-speed networks. To make sure you design the right high-speed network for your needs, you need High-Speed Cisco Networks. This book shows you how to: Sell advanced LAN/WAN technology and its benefits to upper management Make your department more productive using this technology Use advanced LAN/WAN technology in your organization Bring together an effective team to put advanced LAN/WAN technology to work Choose LAN/WAN ... (AN 135496), Database: eBook Collection (EBSCOhost)

Subjects: COMPUTERS / Networking / General; Computer networks

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30. NFV: Security Threats and Best Practices.

By: Lal, Shankar; Taleb, Tarik; Dutta, Ashutosh. *IEEE Communications Magazine*, Aug2017, Vol. 55 Issue 8, p211-217, 7p. Publisher: IEEE.; Abstract **Network** function virtualization (NFV) yields numerous benefits, particularly the possibility of a cost-efficient transition of telco hardware functionalities on the software platform to break the vendor lock-in problem. These benefits come at the price of some security flaws. Indeed, with NFV, virtual mobile **networks** become vulnerable to a number of security threats. These threats can be leveraged using some available mitigation techniques and also through other emerging solutions. This article presents critical security threats that exist in the NFV infrastructure, proposes best security practices to protect against them. [ABSTRACT FROM PUBLISHER]; (AN 124560376), Database: Complementary Index

Subjects: **Computer** and peripheral equipment manufacturing; **Computer** Terminal and Other **Computer** Peripheral Equipment Manufacturing; **Computer Systems** Design Services; Wireless Telecommunications Carriers (except Satellite); Telecommunications Resellers; Communication Equipment Repair and Maintenance; Other telecommunications; All Other Telecommunications; VIRTUAL machine **systems**; TELECOMMUNICATION security; **COMPUTER** input-output equipment; MOBILE communication **systems**; **COMPUTER network** access control software; **COMPUTER networks**

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APPLICATION NO.	FILING DATE	FIRST NAMED INVENTOR	ATTORNEY DOCKET NO.	CONFIRMATION NO.
15/910,734	03/02/2018	Robert B. Hoy	LCOM_ISO_US02	2365

TITLE OF INVENTION: INTERNET ISOLATION FOR AVOIDING INTERNET SECURITY THREATS

APPLN. TYPE	ENTITY STATUS	ISSUE FEE DUE	PUBLICATION FEE DUE	PREV. PAID ISSUE FEE	TOTAL FEE(S) DUE	DATE DUE
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EXAMINER	ART UNIT	CLASS-SUBCLASS
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(A) NAME OF ASSIGNEE

L3Harris Technologies, Inc.

(B) RESIDENCE: (CITY and STATE OR COUNTRY)

Melbourne, Florida

Please check the appropriate assignee category or categories (will not be printed on the patent): ☐ Individual ☒ Corporation or other private group entity ☐ Government

4a. Fees submitted: ☒ Issue Fee ☐ Publication Fee (if required) ☐ Advance Order - # of Copies _____

4b. Method of Payment: (Please first reapply any previously paid fee shown above)

☐ Electronic Payment via EFS-Web ☐ Enclosed check ☐ Non-electronic payment by credit card (Attach form PTO-2038)

☒ The Director is hereby authorized to charge the required fee(s), any deficiency, or credit any overpayment to Deposit Account No. 50-5519

5. Change in Entity Status (from status indicated above)

☐ Applicant certifying micro entity status. See 37 CFR 1.29

☐ Applicant asserting small entity status. See 37 CFR 1.27

☐ Applicant changing to regular undiscounted fee status.

NOTE: Absent a valid certification of Micro Entity Status (see forms PTO/SB/15A and 15B), issue fee payment in the micro entity amount will not be accepted at the risk of application abandonment.

NOTE: If the application was previously under micro entity status, checking this box will be taken to be a notification of loss of entitlement to micro entity status.

NOTE: Checking this box will be taken to be a notification of loss of entitlement to small or micro entity status, as applicable.

NOTE: This form must be signed in accordance with 37 CFR 1.31 and 1.33. See 37 CFR 1.4 for signature requirements and certifications.

Authorized Signature /Michael T. Ghobrial/Date February 7, 2020Typed or printed name Michael T. GhobrialRegistration No. 65,915

Electronic Acknowledgement Receipt

EFS ID:	38526868
Application Number:	15910734
International Application Number:	
Confirmation Number:	2365
Title of Invention:	INTERNET ISOLATION FOR AVOIDING INTERNET SECURITY THREATS
First Named Inventor/Applicant Name:	Robert B. Hoy
Customer Number:	158266
Filer:	Michael T. Ghobrial/Darleen Yacovone
Filer Authorized By:	Michael T. Ghobrial
Attorney Docket Number:	LCOM_ISO_US02
Receipt Date:	07-FEB-2020
Filing Date:	02-MAR-2018
Time Stamp:	14:38:13
Application Type:	Utility under 35 USC 111(a)

Payment information:

Submitted with Payment	yes
Payment Type	CARD
Payment was successfully received in RAM	\$ 1000
RAM confirmation Number	E202027E38303478
Deposit Account	
Authorized User	

The Director of the USPTO is hereby authorized to charge indicated fees and credit any overpayment as follows:

File Listing:					
Document Number	Document Description	File Name	File Size(Bytes)/ Message Digest	Multi Part /.zip	Pages (if appl.)
1	Issue Fee Payment (PTO-85B)	LCOM_ISO_US02_Issue_Fee_Transmittal_as_filed.pdf	1754956	no	1
			cf5a4496ce9c545cc54c1a9df19ee490379cd31f		
Warnings:					
Information:					
2	Fee Worksheet (SB06)	fee-info.pdf	30355	no	2
			83f0d7a540530fc6c16e63c246d3d04c88edd8f8		
Warnings:					
Information:					
Total Files Size (in bytes):			1785311		
This Acknowledgement Receipt evidences receipt on the noted date by the USPTO of the indicated documents, characterized by the applicant, and including page counts, where applicable. It serves as evidence of receipt similar to a Post Card, as described in MPEP 503. <u>New Applications Under 35 U.S.C. 111</u> If a new application is being filed and the application includes the necessary components for a filing date (see 37 CFR 1.53(b)-(d) and MPEP 506), a Filing Receipt (37 CFR 1.54) will be issued in due course and the date shown on this Acknowledgement Receipt will establish the filing date of the application. <u>National Stage of an International Application under 35 U.S.C. 371</u> If a timely submission to enter the national stage of an international application is compliant with the conditions of 35 U.S.C. 371 and other applicable requirements a Form PCT/DO/EO/903 indicating acceptance of the application as a national stage submission under 35 U.S.C. 371 will be issued in addition to the Filing Receipt, in due course. <u>New International Application Filed with the USPTO as a Receiving Office</u> If a new international application is being filed and the international application includes the necessary components for an international filing date (see PCT Article 11 and MPEP 1810), a Notification of the International Application Number and of the International Filing Date (Form PCT/RO/105) will be issued in due course, subject to prescriptions concerning national security, and the date shown on this Acknowledgement Receipt will establish the international filing date of the application.					

Electronic Patent Application Fee Transmittal

Application Number:	15910734			
Filing Date:	02-Mar-2018			
Title of Invention:	INTERNET ISOLATION FOR AVOIDING INTERNET SECURITY THREATS			
First Named Inventor/Applicant Name:	Robert B. Hoy			
Filer:	Michael T. Ghobrial/Darleen Yacovone			
Attorney Docket Number:	LCOM_ISO_US02			
Filed as Large Entity				
Filing Fees for Utility under 35 USC 111(a)				
Description	Fee Code	Quantity	Amount	Sub-Total in USD(\$)
Basic Filing:				
Pages:				
Claims:				
Miscellaneous-Filing:				
Petition:				
Patent-Appeals-and-Interference:				
Post-Allowance-and-Post-Issuance:				
UTILITY APPL ISSUE FEE	1501	1	1000	1000

Description	Fee Code	Quantity	Amount	Sub-Total in USD(\$)
Extension-of-Time:				
Miscellaneous:				
Total in USD (\$)				1000



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APPLICATION NO.	ISSUE DATE	PATENT NO.	ATTORNEY DOCKET NO.	CONFIRMATION NO.
15/910,734	03/24/2020	10601780	LCOM_ISO_US02	2365

158266 759 03/04/2020

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ISSUE NOTIFICATION

The projected patent number and issue date are specified above.

Determination of Patent Term Adjustment under 35 U.S.C. 154 (b)

(application filed on or after May 29, 2000)

The Patent Term Adjustment is 0 day(s). Any patent to issue from the above-identified application will include an indication of the adjustment on the front page.

If a Continued Prosecution Application (CPA) was filed in the above-identified application, the filing date that determines Patent Term Adjustment is the filing date of the most recent CPA.

Applicant will be able to obtain more detailed information by accessing the Patent Application Information Retrieval (PAIR) WEB site (<http://pair.uspto.gov>).

Any questions regarding the Patent Term Extension or Adjustment determination should be directed to the Office of Patent Legal Administration at (571)-272-7702. Questions relating to issue and publication fee payments should be directed to the Application Assistance Unit (AAU) of the Office of Data Management (ODM) at (571)-272-4200.

APPLICANT(s) (Please see PAIR WEB site <http://pair.uspto.gov> for additional applicants):

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Sean W. Farren, Newburyport, MA;

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