

VMware vSphere 7.0

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MAC Address Assignment from vCenter Server

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vSphere provides several schemes for automatic allocation of MAC addresses in vCenter Server. You can select the scheme that best suits your requirements for MAC address duplication, OUI requirements for locally administered or universally administered addresses, and so on.

The following schemes of MAC address generation are available in vCenter Server:

- VMware OUI allocation, default allocation
- Prefix-based allocation
- Range-based allocation

After the MAC address is generated, it does not change unless the virtual machine's MAC address conflicts with that of another registered virtual machine. The MAC address is saved in the configuration file of the virtual machine.

Note

If you use invalid prefix- or range-based allocation values, an error is logged in the `vpdx.log` file. vCenter Server does not allocate MAC addresses when provisioning a virtual machine.

Preventing MAC Address Conflicts

The MAC address of a powered off virtual machine is not checked against the addresses of running or suspended virtual machines.

When a virtual machine is powered on again, it might acquire a different MAC address. The change might be caused by an address conflict with another virtual machine. While this virtual machine has been powered off, its MAC address has been assigned to another virtual machine that has been powered on.

If you reconfigure the network adapter of a powered off virtual machine, for example, by changing the automatic MAC address allocation type or setting a static MAC address, vCenter Server resolves MAC address conflicts before the adapter reconfiguration takes effect.

For information about resolving MAC address conflicts, see the *vSphere Troubleshooting* documentation.

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