



Professional

Apache Tomcat 5

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Tomcat and IIS

Chapter 12 discussed how Apache could be used as a front end to Tomcat. This chapter details the use of Internet Information Services (IIS) with Tomcat. IIS is a popular Web server for Web sites hosted on Microsoft platforms, and is used for deploying server-side solutions developed in ASP, C#, and other Microsoft technologies. The advantage of using IIS is that it allows service providers to support heterogeneous server-side solutions (for example, both ASPs and JSPs) on the same platform.

The Jakarta project provides an Internet Services Application Programming Interface (ISAPI) filter for connecting IIS and Tomcat. ISAPI filters are components or plug-ins for third-party products to communicate with IIS. This chapter covers installation, configuration, and tuning of the ISAPI filter to connect Tomcat with IIS, including the following topics:

- ☐ Role of the ISAPI filter
- ☐ Configuration of Tomcat
- ☐ Settings, installation, and configuration of the ISAPI filter for IIS
- ☐ Testing and setup
- ☐ Troubleshooting tips

The configuration described in this chapter has been tested using Tomcat 5.0.19, Microsoft IIS 5.0, ISAPI filter (`isapi_redirector2.dll`) version 2.0.1, and Sun J2SDK 1.4.0 on Microsoft Windows 2000 Professional and Server editions. For the configuration discussed in this chapter, it is assumed that Tomcat and IIS are already installed, configured, and running on the system. The following locations are used in this chapter for configuration-related discussions:

- ☐ JAVA_HOME—D:\Apps\j2sdk1.4.0
- ☐ CATALINA_HOME—D:\Apps\Tomcat5
- ☐ IIS Document Root—c:\Inetpub\wwwroot

Keep Alive and TCP Connection Timeout

The default IIS configuration has HTTP keep-alive enabled. HTTP is a stateless protocol, and each HTTP request from a client to the Web server causes a connection to be established, serviced, and then closed. If the Web server were to set up and close TCP connections for each HTTP request, this would cause serious performance issues. When the HTTP keep-alive attribute is enabled, the Web server keeps the TCP connection open for a specified period of time to optimize performance for back-to-back HTTP requests between a client and the Web server.

In addition to this parameter, a TCP connection timeout parameter can be set. This is the amount of time that idle TCP connections will be left open. Figure 13-13 shows these parameters being configured.

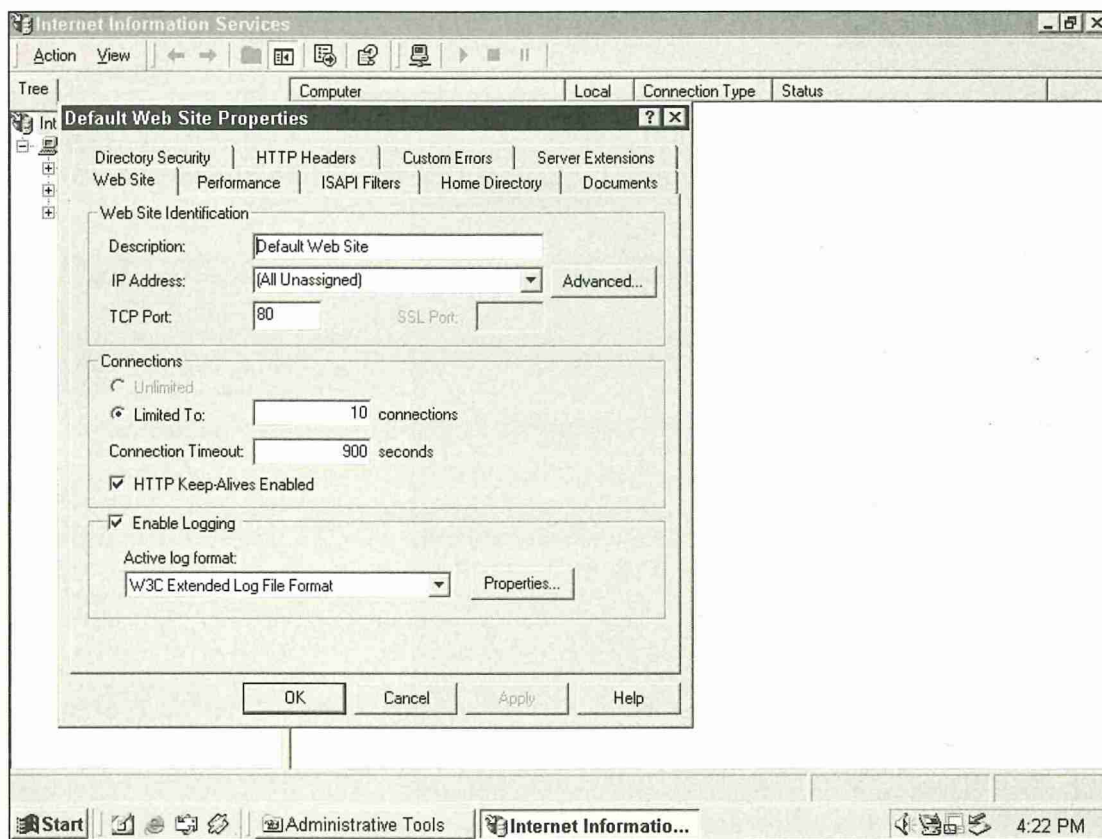


Figure 13-13: Tuning IIS with options for Keep-Alive and Connection Timeout.