

Apache FtpServer

FTP server based on Apache Avalon

by Rana Bhattacharyya

NOTICE: FtpServer documentation is under construction. Everything you can find outside this page is to be considered obsolete.

1. Overview

FtpServer is a server component for Avalon Phoenix that allows remote FTP client to attach and download files. The client software can be any type of FTP client written in any language. The criteria for eligibility is RFC compliance.

The server uses several components. Some of the components have multiple implementations. For example user management has implementations that will use LDAP, JDBC and Cornerstone's Store facility for storage.

The server has a management console (GUI) that can connect over RMI to the server.

2. Features

1. 100% pure Java, free, open source resumable FTP server!!!
2. Multi platform support and multithreaded design.
3. User virtual directory, write permission, idle time-out and upload/download bandwidth limitation support.
4. You can monitor all the user activities.
5. Anonymous login support.
6. Both upload and download files are resumable.
7. Handles both ASCII and binary data transfers.
8. IP restriction support. You can use a limited set of regular expressions (*?[^~]) to specify the allowed/banned IPs.
9. The server reloads the user data at a regular interval if necessary.
10. Database and LDAP can be used to store user data.
11. Default users admin/admin and anonymous will be created by the server when you start it

for the first time.

12. New user managers can be added very easily by adding new user manager.

13. Supports SITE commands. Use SITE HELP to get the available commands.

3. Components

The ftp server consists of several components. The component implementations and dependencies are declared in ftp-assembly.xml file.

Name	Description
thread-manager	Manages a set of thread pools
sockets	A service to manage the socket factories
connections	This is the service through which connection management occurs.
objectstorage	Manages object repository.
user-manager	Handles all ftp server user management.
ip-restrictor	It allows/bans the specified IPs depending on the configuration.
ftp-server	This is the ftp server starting point.

Name>	Interfaces
thread-manager	org.apache.avalon.cornerstone.services.threads.ThreadManager
sockets	org.apache.avalon.cornerstone.services.sockets.SocketManager
connections	org.apache.avalon.cornerstone.services.connection.ConnectionM
objectstorage	org.apache.avalon.cornerstone.services.store.Store
user-manager	org.apache.ftpserver.usermanager.UserManagerInterface
ip-restrictor	org.apache.ftpserver.ip.IpRestrictorInterface
ftp-server	org.apache.ftpserver.ip.FtpServerInterface

Name	Dependency
connections	thread-manager
user-manager	objectstorage (if we use object store based user manager)

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ftp-server	sockets, user-manager	connections,	ip-restrictor,
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