



Kerberos Servers for AAA

The following topics explain how to configure Kerberos servers used in AAA. You can use Kerberos servers for the authentication of management connections, network access, and VPN user access.

- [Guidelines for Kerberos Servers for AAA, on page 1](#)
- [Configure Kerberos Servers for AAA, on page 1](#)
- [Monitor Kerberos Servers for AAA, on page 3](#)
- [History for Kerberos Servers for AAA, on page 4](#)

Guidelines for Kerberos Servers for AAA

- You can have up to 100 server groups in single mode or 4 server groups per context in multiple mode.
- Each group can have up to 16 servers in single mode or 4 servers in multiple mode. When a user logs in, the servers are accessed one at a time starting with the first server you specify in the configuration, until a server responds.

Configure Kerberos Servers for AAA

The following topics explain how to configure Kerberos server groups. You can then use these groups when configuring management access or VPNs.

Configure Kerberos AAA Server Groups

If you want to use a Kerberos server for authentication, you must first create at least one Kerberos server group and add one or more servers to each group.

Procedure

Step 1 Choose **Configuration > Device Management > Users/AAA > AAA Server Groups**.

Step 2 Click **Add** in the **AAA Server Groups** area.

The **Add AAA Server Group** dialog box appears.

- Step 3** Enter a name for the group in the **Server Group** field.
- Step 4** Choose the **Kerberos** server type from the **Protocol** drop-down list:
- Step 5** Click **Depletion** or **Timed** in the **Reactivation Mode** field.
- In Depletion mode, failed servers are reactivated only after all of the servers in the group are inactive. In depletion mode, when a server is deactivated, it remains inactive until all other servers in the group are inactive. When and if this occurs, all servers in the group are reactivated. This approach minimizes the occurrence of connection delays due to failed servers.
- In Timed mode, failed servers are reactivated after 30 seconds of down time.
- Step 6** If you chose the Depletion reactivation mode, enter a time interval in the **Dead Time** field.
- The dead time is the duration of time, in minutes, that elapses between the disabling of the last server in a group and the subsequent re-enabling of all servers.
- Step 7** Specify the maximum number of failed AAA transactions with a AAA server in the group before trying the next server.
- This option sets the number of failed AAA transactions before declaring a nonresponsive server to be inactive.
- Step 8** Click **OK**.
-

Add Kerberos Servers to a Kerberos Server Group

Before you can use a Kerberos server group, you must add at least one Kerberos server to the group.

Procedure

- Step 1** Choose **Configuration > Device Management > Users/AAA > AAA Server Groups**.
- Step 2** Select the server group to which you want to add a server.
- Step 3** Click **Add** in the **Servers in the Selected Group** area.
- The **Add AAA Server Group** dialog box appears for the server group.
- Step 4** Choose the **Interface Name** through which the authentication server resides.
- Step 5** Enter either the name or IP address for the server that you are adding to the group.
- Step 6** Specify the timeout value for connection attempts to the server.
- Specify the timeout interval (1-300 seconds) for the server; the default is 10 seconds. For each AAA transaction the ASA retries connection attempts (based on the retry interval) until the timeout is reached. If the number of consecutive failed transactions reaches the maximum-failed-attempts limit specified in the AAA server group, the AAA server is deactivated and the ASA starts sending requests to another AAA server if it is configured.
- Step 7** Select the retry interval, which is the time the system waits before retrying a connection request. You can select from 1-10 seconds. The default is 10 seconds.
- Step 8** Specify the server port. The server port is either port number 88, or the TCP port number used by the ASA to communicate with the Kerberos server.
- Step 9** Configure the Kerberos realm.

Kerberos realm names use numbers and upper case letters only, and can be up to 64 characters. The name should match the output of the Microsoft Windows **set USERDNSDOMAIN** command when it is run on the Active Directory server for the Kerberos realm. In the following example, EXAMPLE.COM is the Kerberos realm name:

```
C:\>set USERDNSDOMAIN
USERDNSDOMAIN=EXAMPLE.COM
```

Although the ASA accepts lower case letters in the name, it does not translate lower case letters to upper case letters. Be sure to use upper case letters only.

Step 10

Click **OK**.

Example

```
hostname(config)# aaa-server watchdogs protocol kerberos
hostname(config-aaa-server-group)# aaa-server watchdogs host 192.168.3.4
ciscoasa(config-aaa-server-host)# timeout 9
ciscoasa(config-aaa-server-host)# retry 7
ciscoasa(config-aaa-server-host)# kerberos-realm EXAMPLE.COM
ciscoasa(config-aaa-server-host)# exit
ciscoasa(config)#
```

Monitor Kerberos Servers for AAA

You can use the following commands to monitor and clear Kerberos-related information. Enter commands from the **Tools > Command Line Interface** window.

- **Monitoring > Properties > AAA Servers**

This window shows the AAA server statistics.

- **show aaa-server**

Shows the AAA server statistics. Use the **clear aaa-server statistics** command to clear the server statistics.

- **show running-config aaa-server**

Shows the AAA servers that are configured for the system. Use the **clear configure aaa-server** command to remove the AAA server configuration.

- **show aaa kerberos [username user]**

Shows all Kerberos tickets, or tickets for a given username.

- **clear aaa kerberos tickets [username user]**

Clears all Kerberos tickets, or tickets for a given username.

History for Kerberos Servers for AAA

Feature Name	Platform Releases	Description
Kerberos Servers	7.0(1)	Support for Kerberos servers for AAA. We introduced the following screens: Configuration > Device Management > Users/AAA > AAA Server Groups