

Windows NT Servers for AAA

This chapter describes how to configure Windows NT servers used in AAA and includes the following sections:

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Information About Windows NT Servers

The ASA supports Microsoft Windows server operating systems that support NTLM Version 1, collectively referred to as NT servers.

Note Windows NT servers have a maximum length of 14 characters for user passwords. Longer passwords are truncated, which is a limitation of NTLM Version 1.

Licensing Requirements for Windows NT Servers

Model	License Requirement
ASAv	Standard or Premium License.
All other models	Base License.

Guidelines and Limitations

This section includes the guidelines and limitations for this feature.

Context Mode Guidelines

Supported in single and multiple context mode.

Firewall Mode Guidelines

Supported in routed and transparent firewall mode.

IPv6 Guidelines

Supports IPv6.

Additional Guidelines

- 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.
- If you need to configure fallback support using the local database, see Fallback Support, page 34-2 and the How Fallback Works with Multiple Servers in a Group, page 34-2.

Configuring Windows NT Servers

This section includes the following topics:

- Configuring Windows NT Server Groups, page 38-2
- Adding a Windows NT Server to a Group, page 38-3

Task Flow for Configuring Windows NT Servers

Step 1 Add a AAA server group. See Configuring Windows NT Server Groups, page 38-2.

Step 2 For a server group, add a server to the group. See Adding a Windows NT Server to a Group, page 38-3.

Configuring Windows NT Server Groups

If you want to use a Windows NT server for authentication, authorization, or accounting, you must first create at least one Windows NT server group and add one or more servers to each group. You identify Windows NT server groups by name.

To add a Windows NT server group, perform the following steps:

Detailed Steps

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

Step 2 In the AAA Server Groups area, click **Add**.

The Add AAA Server Group dialog box appears.

Step 3 In the Server Group field, enter a name for the group.

Step 4 From the Protocol drop-down list, choose the NT Domain server type.

Note A warning message appears, indicating that support for NT Domain server authentication will be removed in an upcoming major release.

Step 5 In the Reactivation Mode field, click **Depletion** or **Timed**.

In Depletion mode, failed servers are reactivated only after all of the servers in the group are inactive.

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 In the Max Failed Attempts field, add the number of failed attempts allowed.

This option sets the number of failed connection attempts allowed before declaring a nonresponsive server to be inactive.

Step 8 Click **OK**.

The Add AAA Server Group dialog box closes, and the new server group is added to the AAA Server Groups table.

Step 9 In the AAA Server Groups dialog box, click **Apply** to save the changes to the running configuration.

Adding a Windows NT Server to a Group

To add a Windows NT server to a group, perform the following steps:

Detailed Steps

Step 1 Choose **Configuration > Device Management > Users/AAA > AAA Server Groups**, and in the AAA Server Groups area, click the server group to which you want to add a server.

The row is highlighted in the table.

Step 2 In the Servers in the Selected Group area (lower pane), click **Add**.

The Add AAA Server Group dialog box appears for the server group.

Step 3 From the Interface Name drop-down list, choose the interface name on which the authentication server resides.

Step 4 In the Server Name or IP Address field, add either a server name or IP address for the server that you are adding to the group.

Step 5 In the Timeout field, either add a timeout value or keep the default. The timeout is the duration of time, in seconds, that the ASA waits for a response from the primary server before sending the request to the backup server.

Step 6 Specify the server port. The server port is either port number 139, or the TCP port number used by the ASA to communicate with the Windows NT server.

Step 7 Specify the name of the domain controller. The domain controller is the hostname (no more than 15 characters) of the NT Primary Domain Controller for this server (for example, PDC01). You must enter a name, and it must be the correct hostname for the server whose IP address you added in the Authentication Server Address field. If the name is incorrect, authentication fails.

Step 8 Click **OK**.

The Add AAA Server Group dialog box closes, and the AAA server is added to the AAA server group.

Step 9 In the AAA Server Groups pane, click **Apply** to save the changes to the running configuration.

Testing Windows NT Server Authentication and Authorization

To determine whether the ASA can contact a Windows NT server and authenticate or authorize a user, perform the following steps:

Step 1 Choose **Configuration > Device Management > Users/AAA > AAA Server Groups**, and in the AAA Server Groups area, click the server group in which the server resides.

The row is highlighted in the table.

Step 2 From the Servers in the Selected Group table, click the server that you want to test.

The row is highlighted in the table.

Step 3 Click **Test**.

The Test AAA Server dialog box appears for the selected server.

Step 4 Click the type of test that you want to perform—**Authentication** or **Authorization**.

Step 5 In the Username field, enter a username.

Step 6 If you are testing authentication, in the Password field, enter the password for the username.

Step 7 Click **OK**.

The ASA sends an authentication or authorization test message to the server. If the test fails, ASDM displays an error message.

Monitoring Windows NT Servers

To monitor Windows NT servers, see the following panes:

Path	Purpose
Monitoring > Properties > AAA Servers	Shows the configured Windows NT server statistics.
Monitoring > Properties > AAA Servers	Shows the Windows NT server running configuration.

Feature History for Windows NT Servers

Table 38-1 lists each feature change and the platform release in which it was implemented. ASDM is backwards-compatible with multiple platform releases, so the specific ASDM release in which support was added is not listed.

Table 38-1 Feature History for Windows NT Servers

Feature Name	Platform Releases	Feature Information
Windows NT Servers for AAA	7.0(1)	Describes support for Windows NT Servers and how to configure them for AAA. We introduced the following screen: Configuration > Device Management > Users/AAA > AAA Server Groups.