



Fore Scout

Core Extensions Module: DNS Client Plugin

Configuration Guide

Version 3.2



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About the Documentation

- Refer to the Resources page on the Forescout website for additional technical documentation: <https://www.forescout.com/company/resources/>
- Have feedback or questions? Write to us at documentation@forescout.com

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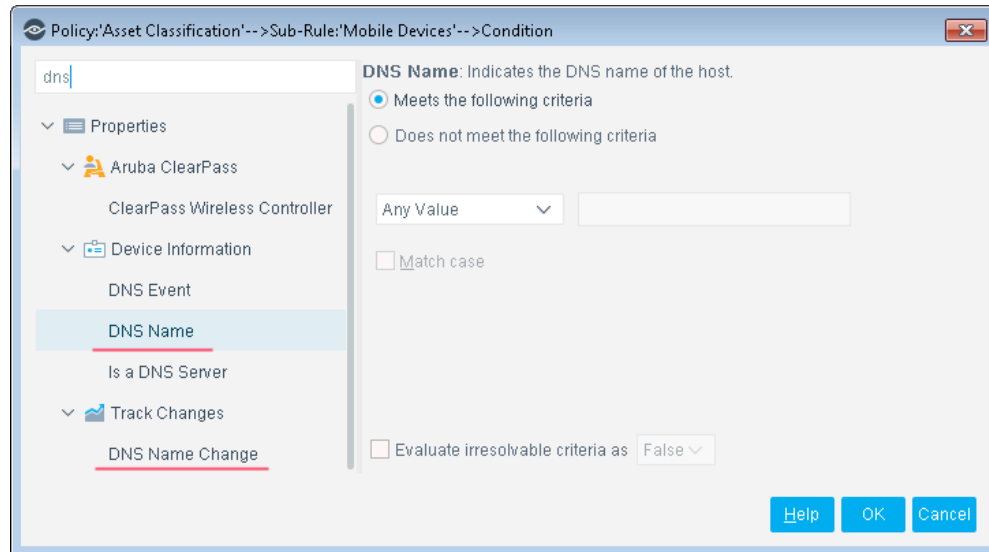
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About the DNS Client Plugin

The DNS Client Plugin is a component of the ForeScout® Core Extensions Module. See [Core Extensions Module Information](#) for details about the module.

The DNS Client Plugin resolves the DNS host name of a given IP address. The **DNS Name** property stores the name returned by the DNS server. A companion Track Changes property is also defined.



To resolve DNS names, the plugin queries the DNS servers that were defined during installation of ForeScout. Refer to the *ForeScout Installation Guide* for details. See [Additional ForeScout Documentation](#) for information about how to access the guide.

Requirements

The plugin requires the following:

- ForeScout version 8.1

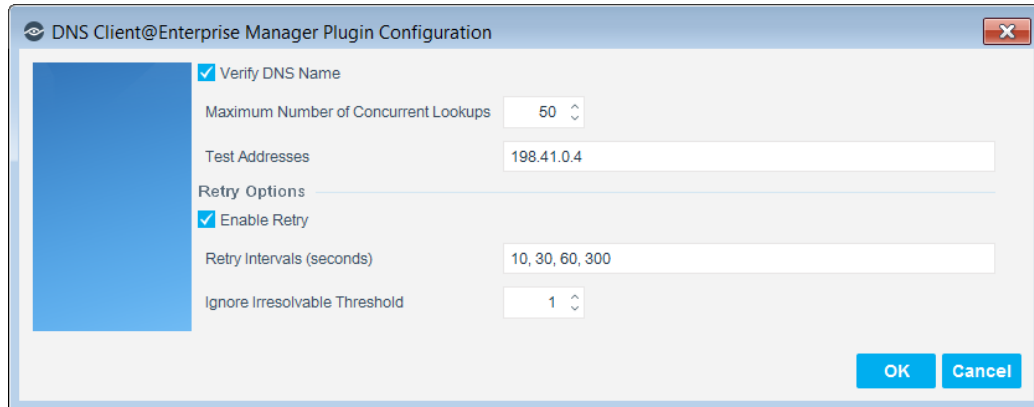
Configuration

This plugin is preconfigured with recommended settings.

To configure the plugin:

- In the ForeScout Console, select **Options** from the **Tools** menu. The Options pane opens.
- Open the **Modules** pane and select **Core Extensions > DNS Client**.

3. Select **Configure**. If this is an Enterprise Manager, select the relevant appliances and select **OK**.
4. The Plugin Configuration window opens.



5. Configure the following settings:

Verify DNS Name	Select this option to verify the name returned by the DNS server. When this option is selected, the plugin resubmits the name returned by the DNS server, and verifies that the original IP address is returned. If the DNS server does not return the original IP address, the DNS Name property is evaluated as <i>Irresolvable</i> .
Maximum Number of Concurrent Lookups	Indicates the maximum number of IP addresses that the plugin can resolve simultaneously. Up to 100 lookups can be performed by each CounterACT device.
Test Addresses	The IP addresses used when the Test feature of the plugin is used. To enter several test addresses, separate each IP address with a comma or space character. The default test address is <i>198.41.0.4</i> , which should resolve to <i>a.root-servers.net</i> .
Enable Retry	Select this option to enable resubmission of the DNS query if the original DNS query fails.
Retry Intervals (seconds)	When the Enable Retry option is selected, use this field to define the time intervals at which ForeScout resubmits a failed/unresolved DNS query. Enter a comma-separated list of time intervals specified in seconds. Each time interval is counted from the time when the original DNS query was submitted. After the plugin submits the original query to the DNS Server, the DNS Name property is evaluated as <i>Pending</i> until a valid name is returned. If all defined retries fail, the DNS Name property is evaluated as <i>Irresolvable</i> .

Ignore Irresolvable Threshold	<p>When the Enable Retry option is selected, use this field to specify how many of the defined retries are performed before the plugin evaluates the DNS Name property as <i>Irresolvable</i>.</p> <p>For example, if you define five retries in the Retry Intervals field, and enter the number 3 in the Ignore Irresolvable Threshold field, the plugin evaluates the DNS Name property as <i>Irresolvable</i> after the third retry fails.</p>
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6. Select **OK** to save your changes.

Verify That the Plugin Is Running

After configuring the plugin, verify that it is running.

To verify:

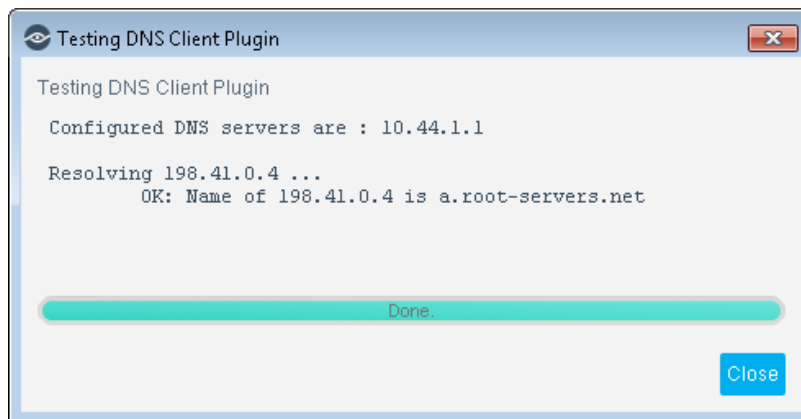
1. Select **Tools>Options** and then select **Modules**.
2. Navigate to the plugin and select **Start** if the plugin is not running.

Verify the Test DNS Name

Use the **Test** option to verify that the test addresses are properly resolved.

To test the DNS Client plugin:

1. Select **Tools>Options** and then select **Modules**.
2. Navigate to the plugin and then select **Test**. A confirmation screen opens.
3. Select **Yes**. The Plugin Test dialog box opens.



The test may fail due to the following misconfigurations:

- A DNS server was not configured properly during installation of ForeScout. Update DNS server configuration using the `fstool dns` CLI command. Refer to the *ForeScout Installation Guide* for details. See [Additional ForeScout Documentation](#) for information about how to access the guide.

- A tested IP address is not listed at the DNS server.
- A tested IP address is listed at the DNS server, but the DNS name does not resolve back to the same IP address.

Core Extensions Module Information

The DNS Client Plugin is installed with the ForeScout Core Extensions Module.

The Forescout Core Extensions Module provides an extensive range of capabilities that enhance the core Forescout solution. These capabilities enhance detection, classification, reporting, troubleshooting and more. The following components are installed with the Core Extensions Module:

Advanced Tools Plugin	CEF Plugin	Dashboard Plugin
DHCP Classifier Plugin	DNS Client Plugin	DNS Enforce Plugin
DNS Query Extension Plugin	Device Classification Engine	External Classifier Plugin
Flow Analyzer Plugin	Flow Collector	IOC Scanner Plugin
IoT Posture Assessment Engine	NBT Scanner Plugin	Packet Engine
Reports Plugin	Syslog Plugin	Technical Support Plugin
Web Client Plugin		

The Core Extensions Module is a Forescout Base Module. Base Modules are delivered with each Forescout release. This module is automatically installed when you upgrade the Forescout version or perform a clean installation.

Additional ForeScout Documentation

For information about other Forescout features and modules, refer to the following resources:

- [Documentation Downloads](#)
- [Documentation Portal](#)
- [Forescout Help Tools](#)

Documentation Downloads

Documentation downloads can be accessed from the [Forescout Resources Page](#), or one of two Forescout portals, depending on which licensing mode your deployment is using.

- **Per-Appliance Licensing Mode** – [Product Updates Portal](#)
- **Flexx Licensing Mode** – [Customer Portal](#)

 *Software downloads are also available from these portals.*

To identify your licensing mode:

- From the Console, select **Help > About Forescout**.

Forescout Resources Page

The Forescout Resources Page provides links to the full range of technical documentation.

To access the Forescout Resources Page:

- Go to <https://www.Forescout.com/company/resources/>, select **Technical Documentation** and search for documents.

Product Updates Portal

The Product Updates Portal provides links to Forescout version releases, Base and Content Modules, and eyeExtend products, as well as related documentation. The portal also provides a variety of additional documentation.

To access the Product Updates Portal:

- Go to <https://updates.forescout.com/support/index.php?url=counteract> and select the version you want to discover.

Customer Portal


The Downloads page on the Forescout Customer Portal provides links to purchased Forescout version releases, Base and Content Modules, and eyeExtend products, as well as related documentation. Software and related documentation will only appear on the Downloads page if you have a license entitlement for the software.

To access documentation on the Forescout Customer Portal:

- Go to <https://Forescout.force.com/support/> and select **Downloads**.

Documentation Portal

The Forescout Documentation Portal is a searchable, web-based library containing information about Forescout tools, features, functionality, and integrations.

 *If your deployment is using Flexx Licensing Mode, you may not have received credentials to access this portal.*

To access the Documentation Portal:

- Go to https://updates.forescout.com/support/files/counteract/docs_portal/ and use your customer support credentials to log in.

Forescout Help Tools

Access information directly from the Console.

Console Help Buttons

Use context sensitive *Help* buttons to quickly access information about the tasks and topics you are working with.

Forescout Administration Guide

- Select **Forescout Help** from the **Help** menu.

Plugin Help Files

- After the plugin is installed, select **Tools > Options > Modules**, select the plugin and then select **Help**.

Online Documentation

- Select **Online Documentation** from the **Help** menu to access either the [Forescout Resources Page](#) (Flexx licensing) or the [Documentation Portal](#) (Per-Appliance licensing).