



# Knob for Ping and Traceroute with VRF to Choose Global DNS Server

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This feature provides a knob for ping and trace route with VRF to choose global DNS server when no DNS servers are defined in a VRF. This module explains how to configure Knob for Ping and Traceroute with VRF to choose Global DNS Server.

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## Finding Feature Information

Your software release may not support all the features documented in this module. For the latest caveats and feature information, see [Bug Search Tool](#) and the release notes for your platform and software release. To find information about the features documented in this module, and to see a list of the releases in which each feature is supported, see the feature information table.

Use Cisco Feature Navigator to find information about platform support and Cisco software image support. To access Cisco Feature Navigator, go to [www.cisco.com/go/cfn](http://www.cisco.com/go/cfn). An account on Cisco.com is not required.

## Prerequisites for Knob for Ping and Traceroute with VRF to Choose Global DNS Server

- VRF must be configured.

# Information About Knob for Ping and Traceroute with VRF to Choose Global DNS Server

## Overview of Knob for Ping and Traceroute with VRF to Choose Global DNS Server

Prior to the Knob for Ping and Traceroute with VRF to choose Global DNS Server feature, ping or traceroute in VRF would look up only in the specified name server to resolve the domain name. If DNS server is specified in the VRF, the DNS is used to resolve the domain name. If DNS server is not specified in the VRF, the DNS fails to resolve the domain name.

With the implementation of the Knob for Ping and Traceroute with VRF to choose Global DNS Server feature, ping and traceroute uses VRF DNS server (if the server is already configured in a VRF), otherwise global DNS server is used to resolve the domain name. The **ip global-nameserver** command acts as a knob that facilitates the ping and traceroute to use the VRF DNS server or the global DNS server when the server is not configured in a VRF.

## How to Configure Knob for Ping and Traceroute with VRF to Choose Global DNS Server

### Configuring a Knob for Ping and Traceroute with VRF to Choose Global DNS Server

#### SUMMARY STEPS

1. enable
2. configure terminal
3. ip global-nameserver
4. exit

#### DETAILED STEPS

	Command or Action	Purpose
Step 1	<b>enable</b> <b>Example:</b> Device> enable	Enables privileged EXEC mode. <ul style="list-style-type: none"> <li>• Enter your password if prompted.</li> </ul>
Step 2	<b>configure terminal</b> <b>Example:</b>	Enters global configuration mode.

	Command or Action	Purpose
	Device# <code>configure terminal</code>	
<b>Step 3</b>	<b>ip global-nameserver</b> <b>Example:</b> Device(config)# <code>ip global-nameserver</code>	Configures a knob for ping and traceroute to use VRF DNS server for resolving the domain name.
<b>Step 4</b>	<b>exit</b> <b>Example:</b> Device(config)# <code>exit</code>	Exits global configuration mode.

## Configuration Examples for Knob for Ping and Traceroute with VRF to Choose Global DNS Server

### Example: Knob for Ping and Traceroute with VRF to Choose Global DNS Server

```
Device> enable
Device# configure terminal
Device(config)# ip global-nameserver
Device(config)# exit
```

## Additional References for Knob for Ping and Traceroute with VRF to Choose Global DNS Server

### Related Documents

Related Topic	Document Title
Cisco IOS commands	<a href="#">Cisco IOS Master Command List, All Releases</a>
Multitopology Routing (MTR) commands	<a href="#">Cisco IOS Multitopology Routing Command Reference</a>
MTR in VRF	<i>Multitopology Routing Configuration Guide</i>

**Technical Assistance**

Description	Link
<p>The Cisco Support website provides extensive online resources, including documentation and tools for troubleshooting and resolving technical issues with Cisco products and technologies.</p> <p>To receive security and technical information about your products, you can subscribe to various services, such as the Product Alert Tool (accessed from Field Notices), the Cisco Technical Services Newsletter, and Really Simple Syndication (RSS) Feeds.</p> <p>Access to most tools on the Cisco Support website requires a Cisco.com user ID and password.</p>	<a href="http://www.cisco.com/support">http://www.cisco.com/support</a>

## Feature Information for Knob for Ping and Traceroute with VRF to Choose Global DNS Server

The following table provides release information about the feature or features described in this module. This table lists only the software release that introduced support for a given feature in a given software release train. Unless noted otherwise, subsequent releases of that software release train also support that feature.

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**Table 1: Feature Information for Knob for Ping and Traceroute with VRF to Choose Global DNS Server**

Feature Name	Releases	Feature Information
Knob for Ping and Traceroute with VRF to Choose Global DNS Server	Cisco IOS XE Release 3.12S	<p>This feature provides a knob for ping and trace route with VRF to choose global DNS server when no DNS servers are defined in a VRF.</p> <p>The following commands were introduced or modified: <b>ip global-nameserver</b>.</p>