

F Commands

This chapter describes the Cisco Nexus 1000V commands that begin with the letter F.

fabric forwarding anycast gateway-mac

To add the anycast gateway-MAC address to the Cisco DFA configuration on the Cisco Nexus 1000V, use the **feature fabric forwarding anycast gateway-mac** command.

fabric forwarding anycast gateway-mac <mac address>

Syntax Description	<mac address=""></mac>	The MAC address to add to the global configuration for Cisco DFA on the Cisco Nexus 1000V.
Defaults	Disabled	
Command Modes	Global configuration	(config)
SupportedUserRoles	network-admin	
Command History	Release 4.2(1)SV2(2.2)	Modification This command was introduced.
Usage Guidelines Related Commands	You must have enbale	ed the fabric forwarding feature on the Cisco Nexus 1000V. Description
	show fabric forwarding	Displays the fabric forwarding details for the anycast gateway-MAC on the Cisco Nexus 1000V.

fabric forwarding mode

To add the fabric forwarding mode to the Cisco Nexus 1000V, use the **fabric forwarding mode** command.

fabric forwarding mode <anycast-gateway | proxy- gateway>

Syntax Description		
	anycast-gateway	The anycast-gateway mode
	proxy-gateway	The proxy-gateway mode
Defaults	The default mode is	anycast-gateway.
Command Modes	bridge-domain confi	guration (bd-config)
SupportedUserRoles	network-admin	
Command History	Release	Modification
	4.2(1)SV2(2.2)	This command was introduced.
Usage Guidelines	None.	
Related Commands	Command	Description
	show fabric forwarding	Displays the fabric forwarding details on the Cisco Nexus 1000V.
	show feature	Displays the features available, such as fabric forwarding, and whether they are enabled.

Feature cts

To enable the Cisco TrustSec feature on Cisco Nexus 1000V, use the **feature cts** command. To disable the Cisco TrustSec feature, use the **no** form of this command.

feature cts

no feature cts

Syntax Description	This command has no argum	ents or keywords.
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- Defaults Disabled
- **Command Modes** Global configuration (config)
- SupportedUserRoles network-admin

Command History	Release	Modification
	4.2(1)SV2(1.1)	This command was introduced.

Usage Guidelines Enabling this feature requires an Advanced License. See the *Cisco Nexus 1000V License Configuration Guide, Release 4.2(1)SV2(1.1)* for more information on the licensing requirements for Cisco Nexus 1000V.

Examples This example shows how to enable the Cisco TrustSec feature:

n1000v# **configure terminal** n1000v(config)# **feature cts**

This example shows how to disable the Cisco TrustSec feature:

n1000v# configure terminal
n1000v(config)# no feature cts

Related Commands	ommands Command Description	
	show cts	Displays Cisco TrustSec configuration.
	show feature	Displays the features available, such as CTS, and whether they are enabled.

feature dhcp

To enable the DHCP feature globally, use the **feature dhcp** command. To disable DHCP, use the **no** form of this command.

feature dhcp

no feature dhcp

Syntax Description	This command	has no arguments	or keywords.
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Defaults None

Command Modes Global configuration (config)

SupportedUserRoles network-admin

Command History	Release	Modification
	4.2(1)SV1(4)	This command was introduced.

Usage Guidelines Starting with Release 4.2(1)SV2(1.1), a tier-based Licensing approach is adopted for the Cisco Nexus 1000V. The Cisco Nexus 1000V is shipped in two editions: Essential and Advanced. When the switch edition is configured as the Advanced edition, DHCP Snooping, Dynamic ARP Inspection (DAI), and IP Source Guard (IPSG) are available as advanced features that require licenses.

See the *Cisco Nexus 1000V License Configuration Guide* for more information on the licensing requirements for Cisco Nexus 1000V.

Examples

This example shows how to enable DHCP globally:

n1000v# configure terminal
n1000v(config)# feature dhcp
n1000v(config)#

This example shows how to disable DHCP globally:

n1000v# configure terminal
n1000v(config)# no feature dhcp
n1000v(config)#

Related Commands	Command	Description
	show feature	Displays the features available, such as DHCP, and whether they are enabled.
	ip dhcp snooping trust	Configures an interface as a trusted source of DHCP messages.
	ip dhcp snooping vlan	Enables DHCP snooping on the specified VLANs.
	show ip dhcp snooping	Displays general information about DHCP snooping.

feature evb

To configure the EVB feature on the Cisco Nexus 1000V, use the **feature evb** command. To disable the EVB feature, use the **no** form of this command.

feature evb

no feature evb

- Defaults Disabled
- **Command Modes** Global configuration (config)
- SupportedUserRoles network-admin

Command History	Release	Modification
	4.2(1)SV2(2.2)	This command was introduced.

Usage Guidelines None.

Examples

This example shows how to enable the evb feature: n1000v# configure terminal

n1000v(config)# feature evb

This example shows how to disable the evb feature:

n1000v# configure terminal
n1000v(config)# no feature evb

Related Commands	Command	Description	
	show feature evb	Displays the features available, such as EVB, and whether they are enabled.	

feature fabric forwarding

To configure the Cisco DFA feature on the Cisco Nexus 1000V, use the **feature fabric forwarding** command. Use the **no** form of this command to disable the fabric forwarding feature.

feature fabric forwarding

[no] feature fabric forwarding

	[no] reature rabric for warding
Syntax Description	This command has no arguments or keywords.
Defaults	Disabled
Command Modes	Global configuration (config)
SupportedUserRoles	network-admin
Command History	ReleaseModification4.2(1)SV2(2.2)This command was introduced.
Usage Guidelines	None.
Examples	This example shows how to enable the fabric forwarding feature: n1000v# configure terminal n1000v(config)# feature fabric forwarding
	This example shows how to disable the fabric forwarding feature:
	n1000v# configure terminal n1000v(config)# no feature fabric forwarding
Related Commands	Command Description
	show feature fabric Displays the features available such as fabric forwarding, and whether they

show feature fabric	Displays the features available, such as fabric forwarding, and whether they
forwarding	are enabled.

feature http-server

To enable the HTTP server, use the **feature http-server** command. To disable the HTTP server, use the **no** form of this command.

feature http-server

no feature http-server

Syntax Description	This command	has no	arguments	or keywords.
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- Defaults Enabled
- **Command Modes** Global configuration (config)
- SupportedUserRoles network-admin

Command History	Release	Modification			
	4.2(1)SV1(4)	This command was introduced.			
Usage Guidelines	• VUM will not i	nstall VEMs if the HTTP server is disabled.			
	• The HTTP server must be enabled in order to get the Cisco Nexus 1000V XML plugin from the VSM.				
Examples	This example shows	s how to enable the HTTP server:			
	n1000v# config t n1000v(config)# f e	eature http-server			
	This example shows how to disable the HTTP server:				
	n1000v# config t n1000v(config)# no feature http-server				

Related Commands Command Description		Description
	show http-server	Displays the HTTP server configuration.
	show feature	Displays the features available, such as LACP, and whether they are enabled.

feature lacp

To enable LACP support for port channels, use the **feature lacp** command. To disable it, use the **no** form of this command.

feature lacp

no feature lacp

Syntax Description	This command has no arguments	or keywords.
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- Defaults None
- **Command Modes** Global configuration (config)
- SupportedUserRoles network-admin

Command History	Release	Modification	
	4.2(1)SV1(4)	This command was introduced.	

- Usage Guidelines You cannot configure LACP for a port channel without first enabling LACP using the command, feature lacp.
- ExamplesThis example shows how to turn on LACP for port channels:n1000v# config t
n1000v(config)# feature lacpThis example shows how to turn off LACP for port channels:

n1000v(config)# **no feature lacp**

Related Commands

ands	Command	Description
	show feature	Displays the features available and whether they are enabled.
	show port-channel summary	Displays a summary for the port channel interfaces.
	interface	Configures an interface.
	channel-group	Configures a channel group on an interface.
	port-profile	Configures a port profile.

Command	Description
channel-group auto	Configures a channel group on a port profile.
lacp offload	Offloads LACP management from the VSM to the VEMs.

feature http-server

To enable the HTTP server, use the **feature http-server** command. To disable the HTTP server, use the **no** form of this command.

feature http-server

no feature http-server

Syntax Description	This command has	s no arguments o	r keywords.
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- Defaults Enabled
- **Command Modes** Global configuration (config)
- SupportedUserRoles network-admin

Command History	Release	Modification		
	4.2(1)SV1(4)	This command was introduced.		
Usage Guidelines	 VUM will not install VEMs if the HTTP server is disabled. The HTTP server must be enabled in order to get the Cisco Nexus 1000V XML plugin from the VSM. 			
Examples	This example shows how to enable the HTTP server: n1000v# config t n1000v(config)# feature http-server			
	This example shows how to disable the HTTP server:			
	n1000v# config t n1000v(config)# no	feature http-server		
Related Commands	Command	Description		
	show http-server	Displays the HTTP server configuration.		

feature netflow

To enable the NetFlow, use the **feature netflow** command. To disable the feature, use the **no** form of this command.

feature netflow

no feature netflow

Syntax Description	This command	has no arguments	or keywords.
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- Defaults Disabled
- **Command Modes** Global configuration (config)
- SupportedUserRoles network-admin

Command History	Release	Modification
	4.2(1)SV1(4)	This command was introduced.

- **Usage Guidelines** Be aware of resource requirements since NetFlow consumes additional memory and CPU resources.
 - Memory and CPU resources are provided by the VEM hosting the flow monitor interface. Resources are limited by the number of CPU cores present on the VEM.
- **Examples** This example shows how to enable NetFlow: n1000v# config t
 - n1000v(config)# feature netflow

This example shows how to disable NetFlow:

n1000v# config t
n1000v(config)# no feature netflow

Related Commands	Command	Description
	show ssh server	Displays the SSH server configuration.
	flow record	Creates a NetFlow flow record.
	flow exporter	Creates a NetFlow flow exporter.
	flow moniter	Creates a NetFlow flow monitor.
	show flow record	Displays information about NetFlow flow records.

Command	Description
show flow exporter	Displays information about NetFlow flow exporters.
show flow monitor	Displays information about NetFlow flow monitors.

feature network-segmentation-manager

To enable the network segmentation manager feature, use the **feature network-segmentation-manager** command. To disable the feature, use the **no** form of this command.

feature network-segmentation-manager

no feature network-segmentation-manager

Syntax Description	This command has no arguments or keywords.
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Defaults Disabled

Command Modes Global configuration (config)

SupportedUserRoles network-admin

Command History	Release	Modification
	4.2(1)SV1(5.1)	This command was introduced.

Usage Guidelines

Examples

This example shows how to enable the network segmentation manager feature:

n1000v# configure terminal
n1000v(config)# feature network-segmentation-manager
n1000v(config)#

This example shows how to disable the network segmentation manager feature:

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n1000v# configure terminal
n1000v(config)# no feature network-segmentation-manager
n1000v(config)#
```

Related Commands	Command	Description
	show network-segment manager switch	Displays the Cisco Nexus 1000V configured with NSM.
	network-segment policy	Creates a network segmentation policy.
	show run network-segment policy	Displays the network segmentation policy configuration.

feature port-profile-roles

To enable port profile roles to restrict user and group access, use the **feature port-profile-roles** command. To disable it, use the **no** form of this command.

feature port-profile-roles

no feature port-profile-roles

This command has no arguments or keywords.		
Disabled		
Global configuration (config)		
network-admin		
Release Mo	dification	
	s command was introduced.	
When the port profile roles feature is disabled, all users on vCenter lose access to the port groups. This example shows how to enable the port profile roles feature to restrict visibility to specific port groups: n1000v(config)# feature port-profile-roles		
This example shows how to disable the port profile roles feature:		
n1000v(config)# no feature n1000v(config)#	port-profile-roles	
Command	Description	
show port-profile-role	Displays the port profile role configuration, including role names, descriptions, assigned users, and assigned groups.	
show port-profile-role users	Displays available users and groups.	
show port-profile	Displays the port profile configuration, including roles assigned to them.	
show feature Displays features available, such as LACP or Port Profile Roles and whether they are enabled.		
	Disabled Global configuration (config) network-admin Release Mod 4.2(1)SV1(4) Thi When the port profile roles feature groups: This example shows how to engroups: n1000v(config)# feature point000v(config)# This example shows how to dia n1000v(config)# no feature n1000v(config)# Command show port-profile-role show port-profile-role show port-profile-role	

Command	Description
port-profile-role	Creates a port profile role.
user	Assigns a user to a port profile role.
group	Assigns a group to a port profile role.
assign port-profile-role	Assigns a port profile role to a specific port profile.
feature port-profile-role	Enables support for the restriction of port profile roles.

feature private-vlan

To enable the private VLAN feature, use the **feature private-vlan** command. To disable the feature, use the **no** form of this command.

feature private-vlan

no feature private-vlan

This command has no arguments or keywords.		
Disabled		
Global configuration (cor	nfig)	
network-admin		
Release	Modification	
4.2(1)SV1(4)	This command was introduced.	
• Memory and CPU res	requirements since NetFlow consumes additional memory and CPU resources. sources are provided by the VEM hosting the flow monitor interface. Resources mber of CPU cores present on the VEM.	
This example shows how	to enable the private VLAN feature:	
n1000v# config t n1000v(config)# featur	-	
This example shows how	to disable the private VLAN feature:	
n1000v# config)# no fea	ture private-vlan	
n1000v(config)# no fea	Description Displays the private VLAN configuration.	
	Disabled Global configuration (con network-admin Release 4.2(1)SV1(4) • Be aware of resource • Memory and CPU res are limited by the nu This example shows how n1000v# config t n1000v(config)# featur	

feature segmentation

To enable the VXLAN feature, use the **feature segmentation** command. To disable the VXLAN feature, use the **no** form of this command.

feature segmentation

no feature segmentation

Syntax Description	This command has no ar	guments or keywords.
Defaults	Disabled	
Command Modes	Global configuration (co	nfig)
SupportedUserRoles	network-admin	
Command History	Release	Modification
	4.2(1)SV1(5.1)	This command was introduced.
<u> </u>		
Examples	-	v to enable the VXLAN feature:
	n1000v# configure terr n1000V(config)# featur n1000v(config)#	
Related Commands	Command	Description
	show feature	Displays the features available and whether they are enabled.

feature ssh

To enable the secure shell (SSH) server, use the **feature ssh** command. To disable the server, use the **no** form of this command.

feature ssh

no feature ssh

Syntax Description	This command	has no arguments	or keywords.
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- Defaults Enabled
- **Command Modes** Global configuration (config)
- SupportedUserRoles network-admin

Command History	Release	Modification
4.2(1)SV1(4)		This command was introduced.

Usage Guidelines Before enabling SSH, you must configure IP on a Layer 3 interface, out-of-band on the mgmt 0 interface, or inband on an Ethernet interface.

 Examples
 This example shows how to enable the SSH server:

 n1000v# config t
 n1000v(config)# feature ssh

This example shows how to disable the SSH server:

n1000v# config t
n1000v(config)# no feature ssh

Related Commands	Command	Description
	show ssh server	Displays the SSH server configuration.
	ssh key	Generates an SSH server key.
	ssh	Creates and starts an SSH server session.
	show feature	Displays the features available, such as the SSH server, and whether they are enabled.

feature tacacs+

To enable the TACACS+ server, use the **feature tacacs+** command. To disable the server, use the **no** form of this command.

feature tacacs+

no feature tacacs+

- **Syntax Description** This command has no arguments or keywords.
- Defaults Disabled
- **Command Modes** Global configuration (config)
- SupportedUserRoles network-admin
- Release
 Modification

 4.2(1)SV1(4)
 This command was introduced.

Examples This example shows how to enable TACACS+: n1000v# config t

n1000v(config)# feature tacacs+

This example shows how to disable TACACS+:

n1000v# config t
n1000v(config)# no feature tacacs+

Related Commands	Command	Description
	tacacs-server key	Designates the global key shared between the Cisco Nexus 1000V and the TACACS+ server hosts.
	tacacs-server host	Designates the key shared between the Cisco Nexus 1000V and this specific TACACS+ server host.
	show tacacs-server	Displays the TACACS+ server configuration.
	show feature	Displays the features available, such as TACACS+, and whether they are enabled.

feature telnet

To enable the Telnet server, use the **feature telnet** command. To disable the Telnet server, use the **no** form of this command.

feature telnet

no feature telnet

Syntax Description	This command	has no arguments	or keywords.
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- Defaults Enabled
- **Command Modes** Global configuration (config)
- SupportedUserRoles network-admin

Command History	Release	Modification
	4.2(1)SV1(4)	This command was introduced.

Usage Guidelines Before enabling Telnet, you must configure IP on a Layer 3 interface, out-of-band on the mgmt 0 interface, or inband on an Ethernet interface.

Examples This example shows how to enable the Telnet server: n1000v# config t n1000v(config)# feature telnet

This example shows how to disable the Telnet server:

n1000v# config t
n1000v(config)# no feature telnet

Related Commands	Command	Description
	show telnet server	Displays the Telnet server configuration.
	telnet	Creates and configures a telnet session.
	show feature	Displays the features available, such as the Telnet server, and whether they are enabled.

filter vlan

To configure a filter from the source VLANs for a specified Switch Port Analyzer (SPAN) session, use the **filter vlan** command. To remove the filter, use the **no** form of this command.

filter vlan {number | range}

no filter vlan {*number* | *range*}

Syntax Description	number	Number of the VLAN associated with this filter.		
	range	Range of VLANs associated with this filter.		
Defaults	None			
Command Modes	CLI monitor cor	CLI monitor configuration (config-monitor)		
SupportedUserRoles	network-admin			
Command History	Release	Modification		
	4.0(4)SV1(1)	This command was introduced.		
Examples	This example sh	ows how to configure the filter for VLAN IDs, 3, 4, 5, and 7:		
	n1000v# config t n1000v(config)# monitor session 3 n1000v(config-monitor)# filter vlan 3-5, 7 n1000v(config-monitor)#			
	This example shows how to remove the filter for VLAN ID 7:			
	<pre>n1000v# config t n1000v(config)# monitor session 3 n1000v(config-monitor)# no filter vlan 7 n1000v(config-monitor)#</pre>			
Related Commands	Command monitor session	Description n Creates a session with the given session number and places you in the CLI		
		monitor configuration mode to further configure the session.		
	description	For the specified SPAN session, adds a description.		

Command	Description	
destination interface Configures the ports, for the specified session, to act as destina copied source packets.		
no shut	Enables the SPAN session.	
interface ethernet	Places you in CLI interface configuration mode for the specified interface.	
switchport trunk allowed vlan	For the specified interface, configures the range of VLANs that are allowed on the interface.	
show interface ethernet	ace Displays the interface trunking configuration for the selected slot and p or range of ports.	

feature vtracker

To enable vTracker, use the **feature vtracker** command. To disable vTracker, use the **no** form of this command.

feature vtracker

no feature vtracker

Syntax Description	This command has	s no arguments o	r keywords.
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- Defaults Disabled
- Command Modes Global configuration (config) EXEC
- SupportedUserRoles network-admin

Command History	Release	Modification
	4.2(1)SV2(1.1)	This command was introduced.

- **Usage Guidelines** vTracker can be configured globally, not per interface.
- ExamplesThis example shows how to enable vTracker:n1000v# config tn1000v(config)# feature vtrackerThis example shows how to disable vTracker:

n1000v(config)# no feature vTracker

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Command	Description
show vtracker upstream view	Displays all the available virtual Ethernet interfaces for which traffic can flow through the upstream physical switch.
show vtracker vm-view vnic	Displays all the virtual network interface cards (vNICs) that run on the VMs with the adapter and pinning details.
show vtracker vm-view info	Displays all the Virtual Machines (VMs) that run on each server module.

Command	Description
show vtracker module-view pnic	Displays the physical network interface cards (pNICs) that are connected to each Virtual Ethernet Module (VEM) server module in the network.
show vtracker vlan-view	Displays all the VMs that are connected to a specific VLAN or a range of VLANs.
show vtracker vmotion-view	Displays all the ongoing (if any) as well as previous VM migration events.

find

To find filenames beginning with a character string, use the **find** command.

find *filename-prefix*

Syntax Description	filename-prefix	First part or all of a filename. The filename prefix is case sensitive.
Defaults	None	
Command Modes	Any	
SupportedUserRoles	network-admin	
Command History	Release	Modification
	4.0(4)SV1(1)	This command was introduced.
Usage Guidelines		earches all subdirectories under the current working directory. You can use the cd to navigate to the starting directory.
Examples	This example shows	how to display filenames beginning with ospf:
	n1000v# find ospf /usr/bin/find: ./lo ./ospf-gr.cfg ./ospfgrconfig ./ospf-gr.conf	ost+found: Permission denied

Related Commands	Command	Description	
	cd	Changes the current working directory.	
	pwd	Displays the name of the current working directory.	

flow exporter

To create or modify a Flexible NetFlow flow exporter defining where and how Flow Records are exported to the NetFlow Collector Server, use the **flow exporter** command. To remove a flow exporter, use the **no** form of this command.

flow exporter exporter-name

no flow exporter exporter-name

Syntax Description		Nome of the flow one of a that is succeeded on modified	
Syntax Description	exporter-name	Name of the flow exporter that is created or modified.	
Defaults	Flow exporters are no	ot present in the configuration until you create them.	
Delaults	Flow exporters are in	a present in the configuration until you create them.	
Command Modes	Global configuration	(config)	
SupportedUserRoles	network-admin		
Command History	Release	Modification	
Commanu mistory	4.0(4)SV1(1)	This command was introduced.	
Examples	The following examp	le shows how to create and configure FLOW-EXPORTER-1:	
	n1000v(config)# flow exporter FLOW-EXPORTER-1		
	n1000v(config-flow-exporter)# description located in Pahrump, NV		
	n1000v(config-flow-exporter)# destination A.B.C.D		
	n1000v(config-flow-monitor)# dscp 32 n1000v(config-flow-monitor)# source mgmt0		
	n1000v(config-flow-monitor)# transport udp 59		
	n1000v(config-flow-monitor)# version 9		
	The following example shows how to remove FLOW-EXPORTER-1:		
	n1000v(config)# no flow exporter FLOW-EXPORTER-1 n1000v(config)#		
Related Commands	Command	Description	
	clear flow exporter	Clears the flow monitor.	
	show flow exporter	Displays flow monitor status and statistics.	
	description	Adds a description to a flow record, flow monitor, or flow exporter.	
	destination	Adds a destination IP address to a NetFlow flow exporter.	
	dscp	Adds a differentiated services codepoint (DSCP) to a flow exporter.	

Command	Description
source mgmt	Adds the management interface to a flow exporter designating it as the source for NetFlow flow records.
transport udp	Adds a destination UDP port used to reach the NetFlow collector to a flow exporter.
version 9	Designates NetFlow export version 9 in the NetFlow exporter.

flow monitor

To create a Flexible NetFlow flow monitor, or to modify an existing Flexible NetFlow flow monitor, and enter Flexible NetFlow flow monitor configuration mode, use the **flow monitor** command. To remove a Flexible NetFlow flow monitor, use the **no** form of this command.

flow monitor monitor-name

no flow monitor monitor-name

Syntax Description	monitor-name	Name of the flow monitor that is created or modified.	
Defaults	Flow monitors are not present in the configuration until you create them.		
Command Modes	Global configuration (config)		
SupportedUserRoles	network-admin		
Command History	Release	Modification	
-	4.0(4)SV1(1)	This command was introduced.	
Usage Guidelines	Flow monitors are the Flexible NetFlow component that is applied to interfaces to perform network traffic monitoring. Flow monitors consist of a record that you add to the flow monitor after you create the flow monitor, and a cache that is automatically created at the time the flow monitor is applied to the first interface. Flow data is collected from the network traffic during the monitoring process based on the key and non-key fields in the record which is configured for the flow monitor and stored in the flow monitor cache.		
	Once you enter the flow monitor configuration mode, the prompt changes to the following:		
	n1000v(config-fl	.ow-monitor)#	
	Within the flow m configure the flow	nonitor configuration mode, the following keywords and arguments are available to v monitor:	
	• cache—Speci	fies the cache size, from 256 to 16384 entries.	
	• description d	description—Provides a description for this flow monitor; maximum of 63 characters.	
	• exit —Exits fr	rom the current configuration mode.	
	• exporter nam	<i>e</i> —Specifies the name of an exporter to export records.	
	• no —Negates a command or sets its defaults.		
	• record { <i>recor</i> use as follows	<i>rd-name</i> netflow ipv4 <i>collection-type</i> netflow-original }—Specifies a flow record to s:	
	– record-na	<i>ume</i> —Name of a record.	

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- netflow ipv4 collection-type—Specifies the traditional IPv4 NetFlow collection schemes as follows:
 - original-input—Specifies the traditional IPv4 input NetFlow.
 - original-output—Specifies the traditional IPv4 output NetFlow
 - protocol-port—Specifies the protocol and ports aggregation scheme.
- **netflow-original**—Specifies the traditional IPv4 input NetFlow with origin autonomous systems.
- **timeout** {**active** | **inactive**}—Specifies a flow timeout period as follows:
 - active—Specifies an active or long timeout in the range of 60 to 4092 seconds.
 - inactive—Specifies an inactive or normal timeout in the range of 15 to 4092 seconds.

The **netflow-original** and **original-input** keywords are the same and are equivalent to the following commands:

- match ipv4 source address
- match ipv4 destination address
- match ip tos
- match ip protocol
- match transport source-port
- match transport destination-port
- match interface input
- collect counter bytes
- collect counter packet
- collect timestamp sys-uptime first
- collect timestamp sys-uptime last
- collect interface output
- collect transport tcp flags

The original-output keywords are the same as original-input keywords except for the following:

- match interface output (instead of match interface input)
- collect interface input (instead of collect interface output)

Examples	The following examples creates and configures a flow monitor named FLOW-MONITOR-1:			
	<pre>n1000v(config)# flow monitor FLOW-MONITOR-1 n1000v(config-flow-monitor)# description monitor location las vegas, NV n1000v(config-flow-monitor)# exporter exporter-name1 n1000v(config-flow-monitor)# record test-record n1000v(config-flow-monitor)# netflow ipv4 original-input</pre>			
Related Commands	Command Description			

Related Commands	Command	Description
	clear flow monitor	Clears the flow monitor.
	show flow monitor	Displays flow monitor status and statistics.

flow record

To create a Flexible NetFlow flow record, or to modify an existing Flexible NetFlow flow record, and enter Flexible NetFlow flow record configuration mode, use the **flow record** command. To remove a Flexible NetFlow flow record, use the **no** form of this command.

flow record record-name

no flow record record-name

Syntax Description	record-name	Name of the flow record that is created or modified.	
Defaults	Flow records are r	not present in the configuration until you create them.	
Command Modes	Global configurati	on (config)	
SupportedUserRoles	network-admin		
Command History	Release	Modification	
	4.0(4)SV1(1)	This command was introduced.	
	Flexible NetFlow uses key and non-key fields just as original NetFlow does to create and populate flows in a cache. In Flexible NetFlow a combination of key and non-key fields is called a record. Original NetFlow and Flexible NetFlow both use the values in key fields in IP datagrams, such as the IP source or destination address and the source or destination transport protocol port, as the criteria for determining when a new flow must be created in the cache while network traffic is being monitored. A flow is defined as a stream of packets between a given source and a given destination. New flows are created whenever NetFlow analyzes a packet that has a unique value in one of the key fields. Once you enter the flow record configuration mode, the prompt changes to the following: n1000v(config-flow-record)#		
	Within the flow record configuration mode, the following keywords and arguments are available to configure the flow record:		
	• collect—Specifies a non-key field. See the collect command for additional information.		
	• description <i>description</i> —Provides a description for this flow record; maximum of 63 characters.		
	• exit —Exits from the current configuration mode.		
	• match—Specifies a key field. See the match command for additional information.		
	• no —Negates	a command or sets its defaults.	
		bles the following match fields by default when you create a flow record:	
	• match interfa	ace input	

I

 match interface output
 match flow direction
 The following example creates a flow record named FLOW-RECORD-1, and enters Flexible NetFlow flow record configuration mode: n1000v(config)# flow record FLOW-RECORD-1 n1000v(config-flow-record)#
 Related Commands
 Command Description clear flow monitor Clears the flow monitor.

Creates a flow monitor.

Displays flow monitor status and statistics.

flow monitor

show flow monitor

from (table map)

To map input field values to output field values in a QoS table map, use the **from** command.

from source-value to dest-value

Syntax Description	source-value	Specifies the source value in the range from 0 to 63.
	dest-value	Specifies the destination value in the range from 0 to 63.
Defaults	None	
Command Modes	Table map confi	guration (config-tmap)
SupportedUserRoles	network-admin	
Command History	Release	Modification
	4.0(4)SV1(1)	This command was introduced.
Examples	This example sh values:	nows how to create a mapping from three source values to the corresponding destination
	<pre>n1000v(config)# table-map cir-markdown-map n1000v(config-tmap)# from 0 to 7 n1000v(config-tmap)# from 1 to 6 n1000v(config-tmap)# from 2 to 5</pre>	
Related Commands	Command	Description
	show table-ma	p Displays QoS table maps.
	table-map	Creates or modifies a QoS table map.