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debug condition vrf

To limit debug output to a specific virtual routing and forwarding (VRF) instance, use the **debug condition vrf** command in privileged EXEC mode. To remove the debug condition, use the **undebug** version of the command .

debug condition vrf vrf-name undebug condition vrf vrf-name

Syntax Description	<i>vrf-name</i> Name assigned to a VRF.			
Command Modes	Privileged EX	EC (#)		
Command History	Release		Modification	
	Cisco IOS XE	E Release 3.2S	This command was introduced.	
	15.0(1)SY 15.1(1)SG		This command was integrated into Cisco IOS Release 15.0(1)SY.	
			This command was integrated into Cisco IOS Release 15.1(1)SG.	
	Cisco IOS XE Release 3.3SG		This command was integrated into Cisco IOS XE Release 3.3SG.	
Jsage Guidelines	Use this comm	nand to limit deb	bug output to a single VRF.	
Note	Enhanced Interior Gateway Routing Protocol (EIGRP) does not support the debug condition vrf comma			
xamples	The following example shows how to limit debugging output to VRF red:			
	Router# debu	g condition vr	rf red	
Related Commands	Command	Description		

Related Commands	Command	Description	
	vrf definition	Configures a VRF routing table instance.	

debug vrf

To get debugging information on virtual routing and forwarding (VRF) instances, use the **debug vrf** command in privileged EXEC mode. To turn off the debug output, use the **undebug** version of the command.

 $\begin{array}{l} debug \ vrf \ \{create \ | \ delete \ | \ error \ | \ ha \ | \ initialization \ | \ interface \ | \ ipv4 \ | \ ipv6 \ | \ issu \ | \ lock \ | \ lookup \ | \ mpls \ | \ selection \} \end{array}$

 $\begin{array}{l} \textbf{undebug } \textbf{vrf} \hspace{0.2cm} \{ \textbf{create} \mid \textbf{delete} \mid \textbf{error} \mid \textbf{ha} \mid \textbf{initialization} \mid \textbf{interface} \mid \textbf{ipv4} \mid \textbf{ipv6} \mid \textbf{issu} \mid \textbf{lock} \mid \textbf{lookup} \mid \textbf{mpls} \mid \textbf{selection} \} \end{array}$

Syntax Description	create	Specifies VRF creation debugging.
	delete	Specifies VRF deletion debugging.
	error	Specifies VRF error debugging.
	ha	Specifies VRF high-availability debugging.
	initialization	Specifies VRF subsystem initialization debugging.
	interface	Specifies VRF interface assignment debugging.
	ipv4	Specifies VRF IPv4 address-family debugging.
	ipv6	Specifies VRF IPv6 address-family debugging.
	issu	Specifies VRF in-service, software- upgrade debugging.
	lock	Specifies VRF lock debugging.
	lookup	Specifies VRF database-lookup debugging.
	mpls	Specifies VRF Multiprotocol Label Switching (MPLS) debugging.
	selection	Specifies VRF selection debugging.

Command Modes Privileged EXEC (#)

Command History

Release	Modification
Cisco IOS XE Release 3.2S	This command was introduced.
15.0(1)SY	This command was integrated into Cisco IOS Release 15.0(1)SY.
15.1(1)SG	This command was integrated into Cisco IOS Release 15.1(1)SG.
Cisco IOS XE Release 3.3SG	This command was integrated into Cisco IOS XE Release 3.3SG.

Usage Guidelines Use this command to get debugging information on VRFs.

Examples The following example shows how to turn on debugging of VRF interface assignment:

Router# debug vrf interface

Related Commands	Command	Description
	vrf definition	Defines a virtual routing and forwarding instance.

description (VRF definition)

To assign a helpful description to a virtual routing and forwarding (VRF) instance, use the **description** command in VRF definition configuration mode. To remove the description, use the **no** form of this command.

description *string* no description

Syntax Description	string Description of a VRF (up to 244 characters).			
Command Default	This command has no default arguments or keywords.			
Command Modes	VRF definition configuration mode (config-vrf)			
Command History	Release Modification			
	Cisco IOS XE	Release 3.2S	This command was introduced.	
	15.0(1)SY		This command was integrated into Cisco IOS	S Release 15.0(1)SY.
	15.1(1)SG This command was integrated into Cisco IOS Release 15.1(1)S			
	Cisco IOS XE Release 3.3SG This command was integrated into Cisco IOS XE Release 3.3SG.			
Usage Guidelines	Use the description command in VRF definition configuration mode to specify a helpful string of text to aid network administrators reading configuration files.			
Examples	The following example describes VRF red as a VRF for carrying Company-A traffic using the description command in VRF definition configuration mode:			
	Router(config)# vrf definition red Router(config-vrf)# description Company-A			
Related Commands	Command	Description		
	vrf definition Defines a virtual routing and forwarding instance.			

exit-if-vnet

To exit virtual network interface mode, use the exit-if-vnet command in virtual network interface mode.

	exit-if-vne	t		
Syntax Description	This command has no arguments or keywords.			
Command Modes	Virtual network interface (config-if-vnet)			
Command History	Release Modification			
	Cisco IOS	XE Release 3.2S	This command was introduced.	
	15.0(1)SY	,	This command was integrated into Cisco IOS Release 15.0(1)SY.	
	15.1(1)SG	ſ	This command was integrated into Cisco IOS Release 15.1(1)SG.	
	Cisco IOS	XE Release 3.3SG	This command was integrated into Cisco IOS XE Release 3.3SG.	
Examples	 the Router (config-if-vnet)# prompt. However, the exit command performs the same function as the exit-if-vnet command and is a shorter command to enter. The following example shows how to exit virtual network interface mode using the exit-if-vnet command: 			
	<pre>command: Router(config) # vrf definition red Router(config-vrf) # vnet tag 100 R1(config-vrf) # description guest access R1(config-vrf) # address-family ipv4 R1(config-vrf) # vrf definition blue R1(config-vrf) # vrf definition blue R1(config-vrf) # vnet tag 200 R1(config-vrf) # description Finance R1(config-vrf) # address-family ipv4 R1(config-vrf) # address-family ipv4 R1(config-vrf) # interface fastethernet 1/1/1 R1(config-vrf) # interface fastethernet 1/1/1 R1(config-if) # ip address 10.1.1.1 255.255.0 R1(config-if) # vnet trunk R1(config-if) # vnet name blue R1(config-if) # vnet name blue</pre>			
Related Commands	-	Description		

Command	Description
vnet	Configures overrides of an interface's attributes on a per-VRF basis and enters virtual network interface mode.

exit-vrf-list

To exit VRF list submode, use the exit-vrf-list command in VRF list submode.

	exit-vrf-list			
Syntax Description	This command has no arguments or keywords.			
Command Modes	VRF list configuration mode (config-vrf-list)			
Command History	Release Modification			
	Cisco IOS XE Release 3.2S	This command was introduced.		
	15.0(1)SY This command was integrated into Cisco IOS Release 15.0(1)SY			
	15.1(1)SG	This command was integrated into Cisco IOS Release 15.1(1)SG.		
	Cisco IOS XE Release 3.3SG This command was integrated into Cisco IOS XE Release 3.3SG.			
Usage Guidelines	This command is not saved in a configuration and therefore does not appear in show running-config output. The exit-vrf-list command is one of the commands that will be displayed in system help if you enter a ? at the Router (config-vrf-list)# prompt. However, the exit command performs the same function as the exit-vrf-list			

Examples

The following example shows how to exit VRF list mode using the exit-vrf-list commands:

```
Router(config) # vrf list external
Router(config-vrf-list) # member blue
Router(config-vrf-list) # exit-vrf-list
Router(config)#
```

command and is a shorter command to enter.

Related

ed Commands	Command	Description
	exit	Exits any configuration mode to the next highest mode in the CLI-mode hierarchy.
	vrf list	Defines a list of VRFs.

ip ospf vnet area

To create an association between the virtual network subinterfaces in a virtual network trunk interface and the default Open Shortest Path First (OSPF) instance for each virtual network, use the **ip ospf vnet area** command in interface configuration mode. To remove the association, use the **no** form of this command.

ip ospf vnet area area-id **no ip ospf vnet area** area-id

Syntax Desc	ription	area-id	OSPF area ID as a c	decimal value or in IP address format.		
Command De	efault	The default OSPF instance for a virtual network is the OSPF instance in the virtual network that has the lowes OSPF process ID.				
Command M	lodes	Interface	configuration (config	g-if)		
Command History		Release		Modification		
		Cisco IC	OS XE Release 3.2S	This command was introduced.		
		15.0(1)S	SY	This command was integrated into Cisco IOS Release 15.0(1)SY.		
		15.1(1)8	G	This command was integrated into Cisco IOS Release 15.1(1)SG.		
		Cisco IC	S XE Release 3.3SG	This command was integrated into Cisco IOS XE Release 3.3SG.		
	•	Use this c The defau OSPF pro	command to associate ult OSPF instance for ocess ID. Therefore, a	e ip ospf vnet area command to be removed also. all of the virtual networks on the trunk interface with the default OSPF instance. a virtual network is the OSPF instance in the virtual network that has the lowest adding or removing of OSPF instances can cause a subinterface using the ip nove from one instance to another.		
	Note			e a new OSPF instance. OSPF instances must be created explicitly in OSPF provides a way of omitting OSPF in selected virtual networks.		
Examples		The following example shows how to associate all of the virtual networks on a trunk interface with a default OSPF instance:				
<pre>Router(config)# interface gigabitethernet 0/0/0 Router(config-if)# ip address 10.0.0.1 255.255.255.0 Router(config-if)# vnet trunk Router(config-if)# ip ospf vnet area 0</pre>			ress 10.0.0.1 255.255.255.0 runk			

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Related Commands	Command	Description
	vnet trunk	Configures an interface to be a virtual network trunk interface.

member (VRF list)

To make a VRF a member of a VRF list, use the **member** command in VRF list configuration mode. To remove the membership, use the **no** form of this command.

member vrf-name
no member vrf-name

Syntax Description	<i>vrf-name</i> Nam	ne of a VRF th	at belongs to the VRF list.	
Command Default	There are no VRF members in a VRF list.			
Command Modes	VRF list configu	uration (config	-vrf-list)	
Command History	Release		Modification	
	Cisco IOS XE I	Release 3.2S	This command was introduced.	
	15.0(1)SY		This command was integrated into C	Cisco IOS Release 15.0(1)SY.
	15.1(1)SG		This command was integrated into C	Cisco IOS Release 15.1(1)SG.
	Cisco IOS XE I	Release 3.3SG	This command was integrated into C	Cisco IOS XE Release 3.3SG.
Examples	trunk features to A VRF must be to a VRF list. The following es	all of the VRI defined before xample defines	Fs on the list at once.	
	Router (config) Router (config- Router (config- Router (config- Router (config- Router (config- Router (config- Router (config-	-vrf)# vnet 4 -vrf)# vrf de -vrf)# vnet 4 -vrf)# exit # vrf list (-vrf-list)# r	tag 100 efinition green tag 200 Company-A member red	
Related Commands	Command	Description		
	vnet trunk	Configures an	n interface to be a trunk interface.	
	vrf definition	Defines a vir	tual routing and forwarding instance.	

Command	Description
vrf list	Defines a list of VRFs.

redistribute vrf

To redistribute routes that are replicated from one VRF into another VRF, use the **redistribute vrf** command in router configuration mode. To stop such redistribution, use the **no** form of this command.

redistribute vrf vrf-name route-map map-tag no redistribute vrf vrf-name route-map map-tag

Syntax Description	vrf-name Specifies the name of the VRF from which routes are replicated.			
	route-map map-tag		ies the name of a route map that filters out routes that should not be redi- o the original protocol.	stributed
Command Default	No routes are redistrib	uted.		
Command Modes	Router configuration (Router configuration (config-rtr)#		
Command History	Release		Modification	
	Cisco IOS XE Release	e 3.2S	This command was introduced.	
	15.0(1)SY		This command was integrated into Cisco IOS Release 15.0(1)SY.	
	15.1(1)8G		This command was integrated into Cisco IOS Release 15.1(1)SG.	
	Cisco IOS XE Release	e 3.3SG	This command was integrated into Cisco IOS XE Release 3.3SG.	
Usage Guidelines	Use this command when you have multiple VRFs that need to access a shared service, such as a database server or application server. The clients and servers are located in different VRFs. To achieve connectivity between clients and servers, routes must be exchanged among VRFs. Routes are replicated from one VRF to another VRF, then the routes are propagated across each VRF through redistribution into the Interior Gateway Protocol (IGP). We recommend implementing the route replication on the router directly connected to the server subnet. This eliminates the need to redistribute the host prefixes on the server's VRF and thereby avoids a potential routing loop.			
Examples	The following example	e redisri	butes routes that were replicated from VRF blue into VRF red:	
	<pre>Router(config)# vrf definition red Router(config-vrf)# vnet tag 101 Router(config-vrf)# address-family ipv4 Router(config-vrf)# route-replicate from vrf blue all route-map server-prefix-map Router(config-vrf)# exit Router(config)# ! Server prefix is carried in red and blue's IGP to provide reachability Router(config)# ! to the server. Router(config)# router ospf 1 vrf red Router(config-rtr)# ! Redistribute routes that were replicated from vrf blue into red. Router(config-rtr)# redistribute vrf blue route-map server-prefix-map</pre>			

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Related Commands

Command	Description
route-map	Defines the conditions for redistributing routes from one routing protocol into another.
route-replicate	Replicates routes from another topology and another VRF.

route-replicate (VRF address family)

To replicate routes from another topology and Virtual Routing and Forwarding (VRF), use the route-replicate command in VRF address family configuration mode. To stop replicating routes, use the no form of this command.

route-replicate from vrf source-vrf-name {multicast | unicast} protocol [route-map map-tag] **no route-replicate from vrf** source-vrf-name {**multicast** | **unicast**} protocol [**route-map** map-tag]

Syntax Description	from	Specifies the topology where route replication is enabled.		
	vrf source-vrf-name	Specifies the name of the VRF from which routes are replicated.		
	multicast	Specifies a multicast subsequent address family Identifier(SAFI).		
	unicast	Specifies a unicast SAFI.		
	protocol	Type of protocol of the source route. Note that some keywords require an argument. Valid keywords and arguments are:		
		• all —Specifies all routes are replicated, including the NHRP routes (H Routes).		
		• bgp autonomous-system-number —Border Gateway Protocol (BGP).		
		• connected —Connected routes.		
		• eigrp <i>autonomous-system-number</i> —Enhanced Interior Gateway Routing Protocol (EIGRP).		
		• isis <i>area-tag</i> —SO Intermediate System-to-Intermediate System (IS-IS).		
		• mobile — Mobile routes.		
		• odr —On-demand stub routes.		
		• ospf process-id — Open Shortest Path First (OSPF).		
		• rip —Routing Information Protocol (RIP).		
		• static —Static routes.		
	route-map map-tag	(Optional) Specifies the name of a route map that filters out routes that should not be replicated.		
Command Default	No routes are replicated	i.		

VRF address family configuration (config-vrf-af) **Command Modes**

Command History	Release	Modification	
	Cisco IOS XE Release 3.2S	This command was introduced.	
	15.0(1)SY	This command was integrated into Cisco IOS Release 15.0(1)SY.	

Release	Modification
15.1(1)SG	This command was integrated into Cisco IOS Release 15.1(1)SG.
Cisco IOS XE Release 3.3SG	This command was integrated into Cisco IOS XE Release 3.3SG.

Usage Guidelines Route replication creates a link to a route in a routing information base (RIB) that is in a different VRF.

Examples

The following example redistributes routes that were replicated from VRF blue into red:

```
Router(config)# vrf definition red
Router(config-vrf)# vnet tag 101
Router(config-vrf)# address-family ipv4
Router(config-vrf-af)# route-replicate from vrf blue all route-map server-prefix-map
Router(config)# ! server prefix is carried in red and blue's IGP to provide reachability
Router(config)# ! to the server.
Router(config)# router ospf 1 vrf red
Router(config-rtr)# ! Redistribute routes that were replicated from vrf blue into red.
Router(config-rtr)# redistribute vrf blue route-map server-prefix-map
```

Related Commands	Command	Description	
	route-map	Defines the conditions for redistributing routes from one routing protocol to another.	
	show ip route	Displays the current state of the routing table.	

routing-context

To specify that subsequent EXEC commands will apply to a specific virtual routing and forwarding (VRF) instance, use the **routing-context** command in privileged EXEC mode.

routing-context vrf vrf-name

Syntax Description	vrf vrf-name	Specifies the	name of the VRF on which subsequent EXEC commands will be based.		
		-	global keyword-argument pair indicates global vnet.		
Command Default	There is no rou	iting context for	r a specific VRF on which to base EXEC commands.		
Command Modes	Privileged EXEC (#)				
Command History	Release		Modification		
	Cisco IOS XE	Release 3.2S	This command was introduced.		
	15.0(1)SY		This command was integrated into Cisco IOS Release 15.0(1)SY.		
	15.1(1)SG		This command was integrated into Cisco IOS Release 15.1(1)SG.		
	Cisco IOS XE	Release 3.3SG	This command was integrated into Cisco IOS XE Release 3.3SG.		
Usage Guidelines	 Use this command to set a VRF context before entering several privileged EXEC commands that you want to apply to the same VRF. This command saves you from repeatedly entering a VRF name in several EXEC commands that apply to a single VRF. When in a routing context, the system prompt changes to indicate the routing context being used. Commands that can be used in a routing context are ping, show ip route, telnet, and traceroute. 				
	Use the routing-context vrf global command to exit the routing context.				
Examples	The following example of the routing-context command causes subsequent EXEC commands to apply to VRF red:				
	<pre>Router# routing-context vrf red Router%red# ping 10.2.2.3 Protocol [ip]: Sending 5, 100-byte ICMP Echos to 10.2.2.3, timeout is 2 seconds: !!!! Success rate is 100 percent, round-trip min/avg/max = 1/2/4 ms Router%red# show ip route Routing Table: red Codes: L - local, C - connected, S - static, R - RIP, M - mobile, B - BGP D - EIGRP, EX - EIGRP external, O - OSPF, IA - OSPF inter area N1 - OSPF NSSA external type 1, N2 - OSPF NSSA external type 2</pre>				

i - IS-IS, su - IS-IS summary, L1 - IS-IS level-1, L2 - IS-IS level-2 ia - IS-IS inter area, * - candidate default, U - per-user static route

```
o - ODR, P - periodic downloaded static route, H - NHRP, l - LISP
+ - replicated route, % - next hop override
Gateway of last resort is not set
    10.0.0.0/8 is variably subnetted, 2 subnets, 2 masks
C     10.1.3.0/24 is directly connected, GigabitEthernet0/0/0.100
L     10.1.3.1/32 is directly connected, GigabitEthernet0/0/0.100
Router%red#
```

Related Commands	Command	Description
	vrf definition	Configures a virtual routing and forwarding instance.

show running-config vnet

To display the running configuration of virtual networks configured on a router, use the **show running-config vnet** command in privileged EXEC mode.

show running-config vnet [vrf-name]

Syntax Description	vrf-name (Optional) Name of	of a virtual network for which to display the running configuration.			
Command Modes	Privileged EXEC (#)				
Command History	Release	Modification			
	Cisco IOS XE Release 3.2S	This command was introduced.			
	15.0(1)SY	This command was integrated into Cisco IOS Release 15.0(1)SY.			
	15.1(1)SG	This command was integrated into Cisco IOS Release 15.1(1)SG.			
	Cisco IOS XE Release 3.3SG	This command was integrated into Cisco IOS XE Release 3.3SG.			
Jsage Guidelines	The show running-config vnet	he running configuration for one or all virtual networks configured on a rot t command displays the same output as the show running-config vrf commet works in the running configuration, not virtual routing and forwarding (V			
xamples	The following sample output from the show running-config vnet command displays the running configurations for the virtual networks configured on the router.				
	<pre>Router# show running-config vnet Building configuration Current configuration : 507 bytes vrf definition blue vnet tag 200 ! address-family ipv4 exit-address-family ! interface GigabitEthernet1/1/0 vnet trunk ip address 10.1.1.1 255.255.255.0 vnet name red ! vrf definition red</pre>				
	vnet tag 100 ! address-family ipv4 exit-address-family				
	!				

```
!
interface GigabitEthernet1/1/0
vnet trunk
ip address 10.1.1.1 255.255.255.0
vnet name red
!
!
router eigrp rtp
!
address-family ipv4 unicast vrf red autonomous-system 1
!
 topology base
 exit-af-topology
 network 10.0.0.0
exit-address-family
!
!
end
```

Related Commands

Command	Description
vrf definition	Configures a VRF routing table instance.
show running-config vrf	Displays the subset of the running configuration of a router that is linked to a specific VPN VRF instance or to all VRFs configured on the route

show vnet

To display information about virtual networks, use the show vnet command in privileged EXEC mode.

show vnet [{ipv4|ipv6}] [{interface|brief|detail|lock}] [vrf-name]

Syntax Description	ipv4	(Optional) Display	ays IPv4 information.			
	ipv6	(Optional) Display	ays IPv6 information when IPv6 is implemented in VRF NG.			
	interface	(Optional) Displays information about interfaces that have virtual networks configured.				
	brief	(Optional) Display	(Optional) Displays the name, tag, protocol, and interface for each virtual network.			
	detail	(Optional) Display	(Optional) Displays detailed information about virtual networks.			
	lock	(Optional) Display	ays VRF lock information.			
	vrf-name	(Optional) Name	e of a VRF.			
Command Modes	Privileged	EXEC (#)				
Command History	Release		Modification			
	Cisco IOS	XE Release 3.2S	This command was introduced.			
	15.0(1)SY		This command was integrated into Cisco IOS Release 15.0(1)SY.			
	15.1(1)SG		This command was integrated into Cisco IOS Release 15.1(1)SG.			
	<u> </u>	XE Release 3.3SG	This command was integrated into Cisco IOS XE Release 3.3SG.			
	Cisco IOS					
Usage Guidelines	Because a v		VRF, the show vnet command displays a subset of what the show vrf c rmation about virtual networks.			
	Because a v displays; it	displays only informing sample output fr	rmation about virtual networks.			
	Because a v displays; it The follow that have v Router# sl Interface	displays only informing sample output fraction for the sample output fraction of the sample output for the sample of the sample	rmation about virtual networks. From the show vnet command displays information about the interfaces offigured. The output is self-explanatory.			
	Because a v displays; it The follow that have v	displays only informing sample output friend for the sample output friend for the sample output for the sample of the sample of the sample of the same sample of the same same same same same same same sam	from the show vnet command displays information about the interfaces afigured. The output is self-explanatory.			
Usage Guidelines Examples Related Commands	Because a v displays; it The follow that have v Router# sl Interface G1/1.100	displays only inform ng sample output fr intual networks cont now vnet interface State VNET Up red	rmation about virtual networks. From the show vnet command displays information about the interfaces offigured. The output is self-explanatory. Tag IP-Address 100 10.1.1.1			

show vnet counters

To display virtual network statistics, use the **show vnet counters** command in privileged EXEC mode.

show vnet counters

This command has no arguments or keywords. **Syntax Description**

Privileged EXEC (#) **Command Modes**

Command History	Release	Modification
	Cisco IOS XE Release 3.2S	This command was introduced.
	15.0(1)SY	This command was integrated into Cisco IOS Release 15.0(1)SY.
	15.1(1)SG	This command was integrated into Cisco IOS Release 15.1(1)SG.
	Cisco IOS XE Release 3.3SG	This command was integrated into Cisco IOS XE Release 3.3SG.

Use this command to see virtual network statistics, such as the number of trunk interfaces configured on a **Usage Guidelines** router.

Examples

The following is sample output from the show vnet counters command. The output is self-explanatory.

Router# show vnet counters Maximum number of VNETs supported: 32 Current number of VNETs configured: 8 Current number of VNET trunk interfaces: 1 Current number of VNET subinterfaces: 0 Current number of VNET forwarding interfaces: 0

Re

Related Commands	Command	Description
	vnet	Configures overrides of an interface's attributes on a per-VRF basis and enters virtual network interface mode.

show vnet tag

To display where virtual network tags have been used or configured, use the **show vnet tag** command in privileged EXEC mode.

show vnet tag

Syntax Description This command has no arguments or keywords.

Command Modes Privileged EXEC (#)

Release Modification Cisco IOS XE Release 3.2S This command was introduced. 15.0(1)SY This command was integrated into Cisco IOS Release 15.0(1)SY. 15.1(1)SG This command was integrated into Cisco IOS Release 15.1(1)SG. Cisco IOS XE 3.3SG This command was integrated into Cisco IOS XE Release 3.3SG.

Examples

The following sample output from the **show vnet tag** command displays the virtual network tags in use on all of the interfaces on the router.

Router# show vnet tag				
Tag	VNET(s)	Interfaces		
100	red	G1/1.100		
200	blue	G1/1.200		

The following table describes the significant fields shown in the display.

Table 1: show vnet tag Field Descriptions

Field	Description
Tag	Virtual network tag.
VNET(s)	Name of the virtual network using the tag.
Interface(s)	Interface on which the virtual network tag is configured or used. The tag number is appended to the interface number.

Related Commands	Command	Description
	vnet tag	Assigns a tag to a virtual network.
	vrf forwarding	Creates an edge interface for a virtual network.

show vrf counters

To display VRF statistics, use the **show vrf counters** command in privileged EXEC mode.

show vrf counters

Syntax Description This command has no keywords or arguments.

Command Default This command has no default arguments.

Command Modes Privileged EXEC (#)

Command History	Release	Modification
	Cisco IOS XE Release 3.2S	This command was introduced.
	15.0(1)SY	This command was integrated into Cisco IOS Release 15.0(1)SY.
	15.1(1)SG	This command was integrated into Cisco IOS Release 15.1(1)SG.
	Cisco IOS XE Release 3.3SG	This command was integrated into Cisco IOS XE Release 3.3SG.

Usage Guidelines Use this command to see VRF statistics, such as the number of VRFs configured on a router.

Examples

The following example displays sample output for the **show vrf counters** command.

```
Router# show vrf counters
Maximum number of VRFs supported: 10000
Maximum number of IPv4 VRFs supported: 10000
Maximum number of IPv6 VRFs supported: 10000
Current number of VRFs: 1
Current number of IPv4 VRFs: 0
Current number of IPv6 VRFs: 0
```

Related Commands	Command	Description
	vrf definition	Configures a VRF instance.

show vrf list

To display information about a VRF list, use the show vrf list command in privileged EXEC mode.

show vrf list [*vrf-list-name*]

Syntax Description	<i>vrf-list-name</i> (Optional) Name of a VRF list to restrict the output.			
Command Default	This command has no default arguments or keywords.			
Command Modes	Privileged EXEC (#)			
Command History	Release	Modification		
	Cisco IOS XE Release 3.2S	This command was introduced.		
	15.0(1)SY	This command was integrated into Cisco IOS Release 15.0(1)SY.		
	15.1(1)SG	This command was integrated into Cisco IOS Release 15.1(1)SG.		
	Cisco IOS XE Release 3.3SG	This command was integrated into Cisco IOS XE Release 3.3SG.		
Usage Guidelines	Use this command to see the VRF lists on a router and which VRFs are on each list.			
Examples	The following is sample output from the show vrf list command.			

```
Router# show vrf list
List Name: CustomerA
Description: CustomerA's site
VRF Member Name(s):
Red
Blue
Green
List Name: CustomerB
Description: CustomerB
VRF Member Name(s):
Orange
Purple
```

The output is self-explanatory.

Related Commands	Command	Description
	vrf list	Defines a list of VRFs.

snmp context

To create a Simple Network Management Protocol (SNMP) context for Multitopology Routing (MTR) for virtual networking, use the **snmp context** command in the appropriate command mode. To delete an SNMP context, use the **no** form of this command.

For SNMPv1 or v2c

snmp context context-name [community community-name [{ro | rw}]]

For SNMPv3

snmp context context-name [user username [{credential | [encrypted] [auth {md5 password | sha
password}] [access {access-list-numberaccess-list-name | ipv6 access-list-name}]}]
no snmp context context-name

community correctrorwuser usernamecredentialencryptedauthmd5 passwordsha passwordaccessaccess	e (O) (O) e (O) (O) and (O)	Optional) In SNMPv2c, specifies an SNMP community string. Optional) In SNMPv2c, specifies read-only access. Optional) In SNMPv2c, specifies read/write access. Optional) In SNMPv3, specifies an SNMP user. Optional) In SNMPv3, specifies if a user password is already configured d saved. Optional) In SNMPv3, specifies that passwords are Message Digest5 (MD5)
rw user username credential encrypted auth md5 password sha password access	e (O) e (O) and (O)	Optional) In SNMPv2c, specifies read/write access. Optional) In SNMPv3, specifies an SNMP user. Optional) In SNMPv3, specifies if a user password is already configured id saved. Optional) In SNMPv3, specifies that passwords are Message Digest5 (MD5)
user username credential encrypted auth md5 password sha password access	e (O) (O) and (O)	Optional) In SNMPv3, specifies an SNMP user. Optional) In SNMPv3, specifies if a user password is already configured d saved. Optional) In SNMPv3, specifies that passwords are Message Digest5 (MD5)
credential encrypted auth md5 password sha password access	(O) and (O)	Optional) In SNMPv3, specifies if a user password is already configured d saved. Optional) In SNMPv3, specifies that passwords are Message Digest5 (MD5)
encrypted auth md5 password sha password access	and (Op	d saved. Optional) In SNMPv3, specifies that passwords are Message Digest5 (MD5)
auth md5 password sha password access		
md5 password sha password access	or	Secure Hash Algorithm (SHA) digests.
sha password access	(Oj	Optional) In SNMPv3, specifies authentication parameters for a user.
access		Optional) In SNMPv3, uses an Hash-based Message Authentication Code IMAC) MD5 algorithm for authentication.
	(Oj	Optional) In SNMPv3, uses an HMAC SHA algorithm for authentication.
access-list-nu	(Oj	Optional) In SNMPv3, specifies an access list associated with a group.
	mber (O) 99.	Optional) In SNMPv3, a standard access list number in the range of 1 to 0.
access-list-nai		Optional) In SNMPv3, an access list name.
ipv6 access-li	me (Oj	

Command Default No SNMP contexts are configured.

Command Modes

Address family configuration (config-router-af)

Router address family topology configuration (config-router-af-topology)

Router configuration (config-router)

VRF address family configuration (config-vrf-af)

VRF configuration (config-vrf)

Command History	Release	Modification		
	12.2(33)SRB	This command was introduced.		
	Cisco IOS XE Release 3.1S	This command integrated into Cisco IOS XE Release 3.1S.		
	Cisco IOS XE Release 3.2S	This command was modified. All of the keywords were added, and all of the arguments except for <i>context-name</i> were added.		
	15.0(1)SY	This command was integrated into Cisco IOS Release 15.0(1)SY.		
	15.1(1)SG	This command was integrated into Cisco IOS Release 15.1(1)SG.		
	Cisco IOS XE Release 3.3SG	This command was integrated into Cisco IOS XE Release 3.3SG.		
Usage Guidelines	When you use the no snmp context command, all SNMP instances in that context are deleted.			
Examples	The following example shows how to create an SNMP context to be associated with VPN companyA:			
	Device(config)# ip vrf companyA Device(config-vrf)# snmp context contextA			
	The following example shows how to create an SNMP context in VRF address family configuration mode to be associated with VPN companyA:			
	Device(config)# vrf definition companyA Device(config-vrf)# address-family ipv4 Device(config-vrf-af)# snmp context contextA			
Related Commands	Command	Description		
		Colorte en address famile tras fan a VDE table and antons VDE address		

address-family (VRF)	Selects an address family type for a VRF table and enters VRF address family configuration mode.
ip vrf	Configures a VRF routing table.
show snmp context mapping	Displays information about SNMP context mappings for MTR.
vrf definition	Configures a VRF routing table instance and enters VRF configuration mode.

vnet

To override interface configurations on a per-virtual routing and forwarding (VRF) basis, use the **vnet** command in the appropriate configuration mode. To remove VRF-specific configurations, use the **no** form of this command.

vnet {global | name vrf-name}
no vnet {global | name vrf-name}

Syntax Description	global	helpful wl	e parent interface and subinterfaces to have different configurations. This is nen you have untagged packets arriving on the parent interface; vnet global ions are applied to such packets.		
		NoteEvery router has a predefined virtual Network (vNET) known as "vNET global," which refers to the global routing context, corresponds to the default Routing Information Base (RIB), is the default routing table, and carries untagged traffic. By default, interfaces belong to vNET global.nameSpecifies a VRF that is included in the list of VRFs assigned to the interface by the vnet trunk command.			
	name vrf-name				
Command Default	Only vNET global	exists.			
Command Modes	Interface configura	tion (config	g-if)		
	Virtual network interface configuration (config-if-vnet)				
	Address family interface configuration (config-router-af-interface)				
Command History	Release		Modification		
	Cisco IOS XE Rel	lease 3.2S	This command was introduced.		
	Cisco IOS XE Re	lease 3.5S	This command was modified. The command was made available in address family interface configuration mode in EIGRP-named mode configurations.		
	15.2(1)8		This command was integrated into Cisco IOS Release 15.2(1)S. and modified. The command was made available in address family interface configuration mode in EIGRP-named mode configurations.		
	15.0(1)SY		This command was integrated into Cisco IOS Release 15.0(1)SY.		
	15.1(1)SG		This command was integrated into Cisco IOS Release 15.1(1)SG.		
	Cisco IOS XE Rel	ease 3.3SG	This command was integrated into Cisco IOS XE Release 15.1(1)SG.		
	15.3(2)T		This command was integrated into Cisco IOS Release 15.3(2)T.		

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Usage Guidelines	This command can be used in interface configuration mode to configure vNET commands on the interface only if the interface is configured as a trunk interface. Any commands entered after the vnet command will be disabled on any interface that does not have the vnet trunk command configured.				
	VRF subinterfaces inherit certain configurations from the parent interface. An example is the ip ospf cost command.				
	Use the vnet command if you want to configure a VRF-specific command that is different from a command configured on the parent interface. Use this command to enter virtual network interface mode and then configure commands that will apply to a specified VRF.				
Examples	The following example using the vnet command shows how to define a VRF instance named vrf1 on Gigabit Ethernet interface 1/1/1. The system then enters virtual network interface mode and the user configures the Open Shortest Path First (OSPF) value to 30 that overrides the value inherited by the VRFs on the trunk interface, which had an OSPF cost of 20.				
	<pre>Router(config)# interface gigabitethernet 1/1/1 Router(config-if) vnet trunk Router(config-if) ip address 10.1.2.1 255.255.255.0 Router(config-if) ! Set OSPF cost for all vNETs on this interface to 20. Router(config-if) ip ospf cost 20 Router(config-if) vnet name vrf1 Router(config-if) ! Set OSPF cost for vrf1 to 30. Router(config-if-vnet) ip ospf cost 30 Router(config-if-vnet) exit-if-vnet</pre>				
	The following example using the vnet command shows how to define vrf1 on Gigabit Ethernet interface $1/1/1$. The system then enters virtual network interface mode and the user configures the OSPF cost value to 40, which applies to vnet global only.				
	<pre>Router(config)# interface gigabitethernet1/1/1 Router(config-if) vnet trunk Router(config-if) ip address 10.1.2.1 255.255.255.0 Router(config-if) vnet global Router(config-if-vnet) ! Set OSPF cost for global to 40. Router(config-if-vnet) ip ospf cost 40 Router(config-if-vnet) exit-if-vnet</pre>				
Related Commands	Command Description				

elated Commands	Command	Description
	vnet trunk	Configures an interface to be a trunk interface.
	ip ospf cost	Specifies the cost of sending a packet on an interface .

vnet tag

To assign a tag to a virtual network, use the **vnet tag** command in **vrf definition** submode or interface VRF mode. To remove the tag, use the **no** form of this command.

vnet tag *number* no vnet tag *number*

Syntax Description	number	Numeric tag that will encapsulate the packets in a virtual network.
	The range for <i>number</i> is platform-dependent and can be one of the following:	
		• On Cisco Catalyst 6000 family, the range is from 2 to 1000.
		• Beginning with Cisco IOS Release 15.1(1)SY, on the Sup2T platform of Cisco Catalyst 6000 product lines, if the vlan internal allocation policy descending command is configured, the vnet tag range is from 2 to 3900.
		• On Cisco ASR 1000, the range is from 2 to 4094.

Command Default This command has no default arguments or keywords.

Command Modes VRF definition configuration (config-vrf)

Interface VRF configuration (config-if-vnet)

Command History	Release	Modification
	Cisco IOS XE Release 3.2S	This command was introduced.
	15.0(1)SY	This command was integrated into Cisco IOS Release 15.0(1)SY.
	15.1(1)SG	This command was integrated into Cisco IOS Release 15.1(1)SG.
	Cisco IOS XE Release 3.3SG	This command was integrated into Cisco IOS XE Release 3.3SG.
	15.1(1)SY	This command was modified. The range of the <i>number</i> argument is 2 to 3900 on the Sup2T platform of the Cisco Catalyst 6000 product lines if the vlan internal allocation policy descending command is configured.

Usage Guidelines

This command determines that the VRF is actually a virtual network instance.

This command is typically used in VRF definition mode to assign a single tag to a VRF. You must ensure that the same virtual network tag value is configured for the same VRF on each edge and core router (interface).

This command might be used in interface VRF submode on a trunk interface if the user wants to give a VRF a tag on one interface and a different tag on another interface. The primary application for this situation would be for a VRF edge router to peer with an Multiprotocol Label Switching (MPLS) VPN Provider Edge (PE) router and the PE links to the VRF edge are VLANs. The **vnet tag** command allows the user to configure the virtual network tags to be the same as the VLAN IDs on a per-interface basis.

Examples

The following example illustrates the typical use of a virtual network tag. This example show the **vnet tag** command in VRF definition mode and assigns tag 100 to VRF red.

```
Router(config) # vrf definition red
Router(config-vrf) vnet tag 100
```

The following example is not a typical scenario because one VRF is using two different tags. In this example, the **vnet tag** command is used in interface VRF submode and VRF blue is assigned tag 100 on Gigabit Ethernet interface 1/1/1 and tag 200 on Gigabit Ethernet interface 1/0/0.

```
Router(config)# interface gigabitethernet 1/1/1
Router(config-if)# vnet trunk
Router(config-if)# ip address 10.1.2.1 255.255.255.0
Router(config-if)# vnet name blue
Router(config-if)# vnet tag 100
Router(config-if)# exit
Router(config)# interface gigabitethernet 1/0/0
Router(config-if)# vnet trunk
Router(config-if)# ip address 10.1.2.2 255.255.0
Router(config-if)# vnet name blue
```

Related Commands	Command	Description
	vlan internal allocation policy descending	Configures the allocation direction of the internal VLAN.
	vrf definition	Defines a VRF instance.

vnet trunk

To configure an interface to be a virtual network trunk interface, use the **vnet trunk** command in interface configuration mode. To remove the virtual network trunk from the interface, use the **no** form of this command.

vnet trunk [list vrf-list-name]
no vnet trunk

Syntax Description	list vrf-list-name	(Optional) Allows the trunk to carry multiple VRFs and the name of a VRF list.
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Command Default This command has no default arguments or keywords.

Command Modes Interface configuration (config-if)

Release	Modification
Cisco IOS XE Release 3.2S	This command was introduced.
15.0(1)SY	This command was integrated into Cisco IOS Release 15.0(1)SY.
15.1(1)SG	This command was integrated into Cisco IOS Release 15.1(1)SG.
Cisco IOS XE Release 3.3SG	This command was integrated into Cisco IOS XE Release 3.3SG.
	Cisco IOS XE Release 3.2S 15.0(1)SY 15.1(1)SG

Usage Guidelines A trunk interface connects VRF routers together to provide the core to transport traffic for multiple VRFs. Trunk interfaces carry tagged traffic.

Because a trunk interface carries multiple VRFs, sometimes it is not sufficient to display only the trunk interface name in the output of **show** or **debug** commands. When it is necessary to indicate that display output pertains to a particular VRF running on a trunk interface, the convention used is interface.vnet-tag, for example, $g_{1/1.101}$ or $g_{1/1.102}$.

Examples

The following example uses the **vnet trunk** command to define Gigabit Ethernet interface 1/1/1 as a trunk interface.

Router(config)# interface gigabitethernet 1/1/1
Router(config-if)# vnet trunk
Router(config-if)# ip address 10.1.1.1 255.255.255.0

Related Commands	Command	Description
	vrf list	Defines a list of VRFs

vrf definition

To configure a virtual routing and forwarding (VRF) routing-table instance and enter VRF configuration mode, use the **vrf definition** command in global configuration mode. To remove a VRF routing table, use the **no** form of this command.

vrf definition vrf-name no vrf definition vrf-name

Syntax Description	vrf-name	Name assigned to a VRF.
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Command Default No VRFs are defined. No import or export lists are associated with a VRF. No route maps are associated with a VRF.

Command Modes Global configuration (config)

Command History	Release	Modification
	12.2(33)SRB	This command was introduced.
	12.2(33)SXH	This command was integrated into Cisco IOS Release 12.2(33)SXH.
	12.2(33)SB	This command was integrated into Cisco IOS Release 12.2(33)SB.
	12.4(20)T	This command was integrated into Cisco IOS Release 12.4(20)T.
	12.2(33)SXI	This command was integrated into Cisco IOS Release 12.2(33)SXI.
	Cisco IOS XE Release 3.1S	This command was integrated into Cisco IOS XE Release 3.1S.
	Cisco IOS XE Release 3.2S	This command was modified. Its use was expanded to support virtual networks.
	15.0(1)SY	This command was integrated into Cisco IOS Release 15.0(1)SY.
	15.1(1)SG	This command was integrated into Cisco IOS Release 15.1(1)SG.
	Cisco IOS XE Release 3.3SG	This command was integrated into Cisco IOS XE Release 3.3SG.
	15.1(2)SNG	This command was implemented on the Cisco ASR 901 Series Aggregation Services Routers.

Usage Guidelines

Use the vrf definition command to give a VRF a name and to enter VRF configuration mode.

In VRF configuration mode, you can configure parameters such as **rd** or **route-target** that will be common to all address families. For example, you can configure shared route targets (import and export) that will be used by both IPv4 and IPv6. This feature is useful in a migration scenario, where IPv4 policies already are configured and IPv6 policies should be the same as the IPv4 policies. You can configure separate route-target policies for IPv4 and IPv6 VPNs in address family configuration mode. You enter address family configuration mode from VRF configuration mode.

The **vrf definition default** command can be used to configure a VRF name that is a NULL value until a default VRF name can be configured. This is typically before any VRF-related Authentication, Authorization, and Accounting (AAA) commands are configured.

By default, each virtual network trunk interface on a router is able to carry traffic for every VRF defined by the **vrf definition** command. If you want to enable only a subset of VRFs on a trunk interface, use the **vrf list** command.

Note We recommend you do not define a virtual network with the name "global," because the system predefines **vnet global** and it is best to avoid conflict with the predefined version.

Examples

The following example assigns the name vrf1 to a VRF, enters VRF configuration mode, and configures a route distinguisher, 100:20:

Router(config)# vrf definition vrf1
Router(config-vrf)# rd 100:20

The following virtual network example defines VRF red, enters VRF configuration mode, and assigns virtual network tag 100 to VRF red:

Router(config)# vrf definition red
Router(config-vrf)# vnet tag 100

Related Commands	Command	Description
	address-family (VRF)	Enters VRF address family configuration mode to select an address family type for a VRF table.
	rd	Specifies a BGP route distinguisher.
	route-target	Creates a route-target extended community for a VPN VRF.
	vnet	Configures overrides of an interface's attributes on a per-VRF basis.
	vnet tag	Assigns a tag to a virtual network.
	vpn id	Sets or updates a VPN ID on a VRF.
	vrf forwarding	Associates a VRF instance with an interface or subinterface.
	vrf list	Defines a list of VRFs.

vrf forwarding

To associate a virtual routing and forwarding (VRF) instance or a virtual network with an interface or subinterface, use the **vrf forwarding** command in interface configuration mode. To disassociate a VRF or virtual network from an interface, use the **no** form of this command.

vrf forwarding vrf-name [downstream vrf-name2]
no vrf forwarding

Syntax Description	vrf-name	Interface name to be associated with the specified VRF.
		(Optional) Enables half-duplex VRF (HDVRF) functionality on the interface and interface name associated with the specified downstream VRF.
Command Default	The default for an interface	is the global routing table.
Command Modes	Interface configuration (con	fig-if)
Command History	Release	Modification
	12.2(33)SRB	This command was introduced.
	12.2(33)SXH	This command was integrated into Cisco IOS Release 12.2(33)SXH.
	12.2(33)SB	This command was integrated into Cisco IOS Release 12.2(33)SB. The command was modified and the downstream <i>vrf-name2</i> keyword and argument were added to support Multiprotocol Label Switching VPN half-duplex VRFs.
	12.4(20)T	This command was integrated into Cisco IOS Release 12.4(20)T.
	12.2(33)SXI	This command was integrated into Cisco IOS Release 12.2(33)SXI.
	Cisco IOS XE Release 3.15	This command was integrated into Cisco IOS XE Release 3.1S.
	Cisco IOS XE Release 3.25	This command was modified. Its use was expanded to support virtual networks.
	15.0(1)SY	This command was integrated into Cisco IOS Release 15.0(1)SY.
	15.1(1)SG	This command was integrated into Cisco IOS Release 15.1(1)SG.
	Cisco IOS XE Release 3.3S	G This command was integrated into Cisco IOS XE Release 3.3SG.
	15.1(2)SNG	This command was implemented on the Cisco ASR 901 Series Aggregation Services Routers.

Usage Guidelines

Use the **vrf forwarding** command to associate an interface with a VRF. When the interface is bound to a VRF, previously configured IPv4 and IPv6 addresses are removed, and they must be reconfigured.

The downstream keyword associates the interfaces with a downstream VRF, which enables half-duplex VRF functionality on the interface. Some functions operate in upstream VRFs, and others operate in downstream VRFs. The following functions operate in downstream VRFs: • PPP peer routes are installed in downstream VRFs. Authentication, authorization, and accounting (AAA) per-user routes are installed in downstream VRFs. • A Reverse Path Forwarding (RPF) check is performed in the downstream VRFs. In a virtual-network environment, the **vrf forwarding** command is supported on an edge interface, not on a trunk interface. VRF forwarding and vnet configurations are mutually exclusive on an interface. In other words, an interface

can be a VRF interface or a virtual network trunk interface, but not both.

Examples

The following example shows how to associate a VRF named site1 to serial interface 0/0 and configure an IPv6 and an IPv4 address:

```
interface Serial0/0
vrf forwarding site1
ipv6 address 2001:100:1:1000::72b/64
ip address 10.11.11.1 255.255.255.0
```

The following example associates a VRF named U with the virtual-template 1 interface and specifies the downstream VRF named D:

```
Router(config) # interface virtual-template 1
Router(config-if) # vrf forwarding U downstream D
Router(config-if) # ip unnumbered Loopback1
```

The following example shows how to configure an edge interface:

```
interface gigabitethernet 0/0/0
vrf forwarding red
ip address 10.12.12.1 255.255.255.0
```

Related Commands	5
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ands	Command	Description
	vnet	Enters virtual network interface mode.
	vrf definition	Configures a VRF routing table instance and enters VRF configuration mode.

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vrf list

To define a list of VRFs, use the **vrf list** command in global configuration mode. To remove the list of VRFs, use the **no** form of this command.

vrf list vrf-list-name
no vrf list vrf-list-name

Syntax Description	vrf-list-name	Name of a list • A <i>vrf-list</i> not allow	-name may contain up to 32 characters. Quotation marks, spaces, and * are		
Command Default	This command	has no default	values.		
Command Modes	Global configuration (config)				
Command History	Release		Modification		
	Cisco IOS XE	Release 3.2S	This command was introduced.		
	15.0(1)SY		This command was integrated into Cisco IOS Release 15.0(1)SY.		
	15.1(1)SG		This command was integrated into Cisco IOS Release 15.1(1)SG.		
	Cisco IOS XE	Release 3.3SG	This command was integrated into Cisco IOS XE Release 3.3SG.		
Usage Guidelines	Use this command to create a list of VRFs and then specify the VRFs that belong on the list. The list can be referenced in the vnet trunk command to specify that the trunk interface carry traffic for only the VRFs on the list.				
	The VRFs specified for the list must already be defined. A maximum of 32 VRF lists can be configured per router. Use the show vrf list command to see information about a list, such as a description and members.				
Examples		example uses th F red and VRF §	e vrf list command and defines a list named nonprofits. Members on green.		
	Router(config)# vrf definition red Router(config-vrf)# vnet tag 100 Router(config-vrf)# description Foundation A Router(config-vrf)# vrf definition green Router(config-vrf)# vnet tag 200 Router(config-vrf)# description Foundation B Router(config-vrf)# exit Router(config-vrf)# vrf list nonprofits Router(config-vrf-list)# description nonprofits 2010 Router(config-vrf-list)# member red Router(config-vrf-list)# member green				

Related Commands

Command	Description
member	Defines a member of a VRF list.
show vrf list	Displays information about VRF lists.