



V Commands

This chapter describes the Cisco NX-OS Virtual Router Redundancy Protocol (VRRP) commands that begin with V.

vrrp

To create a Virtual Router Redundancy Protocol (VRRP) group on a particular Ethernet interface and assign a number to the VRRP group and enter VRRP configuration mode, use the **vrrp** command. To remove a VRRP group, use the **no** form of this command.

vrrp *number*

no vrrp *number*

Syntax Description	<i>number</i>	VRRP group number, which you can configure for a Gigabit Ethernet port, including the main interfaces and subinterfaces. The range is from 1 to 255.
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Command Default	None
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Command Modes	Interface configuration mode
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Command History	Release	Modified
	6.0(2)N1(1)	This command was introduced.

Usage Guidelines	You can configure VRRP only if its state is disabled. Make sure that you configure at least one IP address before you attempt to enable a virtual router.
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Examples This example shows how to create a VRRP group:

```
switch# configure terminal
switch(config)# interface ethernet 2/1
switch(config-if)# no switchport
switch(config-if)# vrrp 7
switch(config-if-vrrp)#
```

This example shows how to create a VRRP group and configure an IPv4 address for the group:

```
switch# configure terminal
switch(config)# interface ethernet 2/1
switch(config-if)# no switchport
switch(config-if)# vrrp 7
switch(config-if-vrrp)# address 10.0.0.10
switch(config-if-vrrp)# no shutdown
switch(config-if-vrrp)#
```

Related Commands	Command	Description
	clear vrrp	Clears all the software counters for the specified virtual router.
	feature vrrp	Enables VRRP.

Command	Description
address (VRRP)	Adds a primary or secondary IP address to a virtual router.
show vrrp	Displays VRRP configuration information.

vrrpv3 address-family

To create a Virtual Router Redundancy Protocol version 3(VRRPv3) group and enter VRRPv3 group configuration mode, use the **vrrpv3 address-family** command. To remove a VRRPv3 group, use the **no** form of this command.

```
vrrpv3 number address-family [ipv4 | ipv6]
```

```
no vrrpv3
```

Syntax Description		
	<i>number</i>	VRRPv3 group number. The range is from 1 to 255.
	ipv4	Specifies IPv4 address.
	ipv6	Specifies IPv6 address.

Command Modes	
	Interface configuration (config-if)

Command History	Release	Modified
	7.3(0)N1(1)	This command was introduced.

Usage Guidelines	
	Ensure that you configure at least one IP address before you attempt to enable a virtual router group.

Examples	
	The following example shows how to create a VRRPv3 group and configure an IP address for the group:

```
switch# configure terminal
switch(config)# interface ethernet 2/1
switch(config-if)# vrrpv3 5 address-family ipv4
switch(config-if-vrrpv3-group)# address 100.0.1.10 primary
```

Related Commands	Command	Description
	feature vrrp	Enables VRRP.

vrrs leader

To specify the name of the leader to be registered with Virtual Router Redundancy Service(VRRS), use the **vrrs leader** command.

vrrs leader *vrrs-leader-name*

Syntax Description

vrrs-leader-name VRRS leader name.

Command Modes

VRRPv3 group configuration (config-if-vrrpv3-group)

Command History

Release	Modified
7.3(0)N1(1)	This command was introduced.

Examples

The following example shows how to specify a leader's name to be registered with VRRS:

```
switch# configure terminal
switch(config)# interface ethernet 2/1
switch(config-if)# vrrpv3 5 address-family ipv4
switch(config-if-vrrpv3-group)# address 100.0.1.10 primary
switch(config-if-vrrpv3-group)# description group3
switch(config-if-vrrpv3-group)# vrrs leader leader1
switch(config-if-vrrpv3-group)# shutdown
```

Related Commands

Command	Description
vrrpv3 address-family	Creates a VRRPv3 group and enter VRRPv3 group configuration mode.

vrrs pathway

To define the Virtual Router Redundancy Service (VRRS) pathway for a VRRS group and enter VRRS pathway configuration mode, use the **vrrs pathway** command.

```
vrrs pathway vrrs-tag
```

Syntax Description

<i>vrrs-tag</i>	VRRS tag.
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Command Modes

Interface configuration (config-if)

Command History

Release	Modified
7.3(0)N1(1)	This command was introduced.

Examples

The following example shows how to configure VRRS pathway:

```
switch# configure terminal
switch(config)# interface port-channel 100
switch(config-if)# ip address 209.165.200.230 255.255255.224
switch(config-if)# vrrpvs pathway path1
switch(config-if-vrrs-pw) #
```

Related Commands

Command	Description
show vrrs pathway	Displays the VRRS pathway information for different pathway states.
