



## V Commands

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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*

<b>Syntax Description</b>	<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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<b>Command Default</b>	None
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<b>Command Modes</b>	Interface configuration mode
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<b>Command History</b>	<b>Release</b>	<b>Modified</b>
	6.0(2)N1(1)	This command was introduced.

<b>Usage Guidelines</b>	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)#
```

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

Command	Description
<b>address (VRRP)</b>	Adds a primary or secondary IP address to a virtual router.
<b>show vrrp</b>	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.
	<b>ipv4</b>	Specifies IPv4 address.
	<b>ipv6</b>	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
	<b>feature vrrp</b>	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	<i>vrrs-leader-name</i>	VRRS leader name.
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**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
	<b>vrrpv3 address-family</b>	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
```

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### Syntax Description

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

Interface configuration (config-if)

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### Command History

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

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### 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) #
```

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### Related Commands

Command	Description
<b>show vrrs pathway</b>	Displays the VRRS pathway information for different pathway states.

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