

## **P** Commands

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

## preempt (VRRP)

To enable a high-priority backup virtual router to preempt the low-priority master virtual router, use the preempt command. To disable a high-priority backup virtual router from preempting the low-priority master virtual router, use the **no** form of this command.

preempt no preempt Syntax Description This command has no arguments or keywords. **Command Default** Enabled **Command Modes** VRRP configuration mode **Command History** Release Modification 6.0(2)N1(1)This command was introduced. **Usage Guidelines** VRRP enables you to preempt a virtual router backup that has taken over for a failing virtual router master with a high-priority virtual router backup that has become available. By default, a preemptive scheme is enabled. A backup high-priority virtual router that becomes available takes over for the backup virtual router that was elected to become the virtual router master. If you disable preemption, the backup virtual router that is elected to become the virtual router master remains the master until the original virtual router master recovers and becomes the master again.

```
Note
```

This preemption does not apply to the primary IP address.

If the virtual IP address is also the IP address for the interface, then preemption is applied.

This command does not require a license.

Note

Make sure the LAN Base Services license is installed on the switch to enable Layer 3 interfaces.

**Examples** 

This example shows how to enable the backup high-priority virtual router to preempt the low-priority master virtual router:

```
switch# configure terminal
switch(config)# interface ethernet 2/1
switch(config-if) # no switchport
switch(config-if)# vrrp 250
switch(config-if-vrrp)# preempt
switch(config-if-vrrp)#
```

<b>Related Commands</b>	Command	Description
	clear vrrp	Clears all the software counters for the specified virtual router.
	show vrrp	Displays VRRP configuration information.
	vrrp	Configures a VRRP group.

## priority (VRRP)

To set the priority for the Virtual Router Redundancy Protocol (VRRP), use the **priority** command. To revert to the default value, use the **no** form of this command.

priority level [forwarding-threshold lower lower-value upper-value]

no priority level [forwarding-threshold lower lower-value upper-value]

level	Interface priority for a virtual router. The range of values is from 1 to 254. If this router is the owner of the IP addresses, then the value is automatically set to 254. The default is 100.	
forwarding-threshold	(Optional) Sets the threshold used by a virtual port channel (vPC) to determine when to fail over to the vPC trunk.	
lower lower-value	(Optional) Sets the low threshold value. The range is from 1 to 254. The default is 1.	
<b>upper</b> upper-value	(Optional) Sets the upper threshold value. The range is from 1 to 254. The default is 254.	
	For switches whose interface IP address is the same as the primary virtual IP e is 254.	
VRRP configuration mode		
Release	Modification	
6.0(2)N1(1)	This command was introduced.	
The priority determines whether or not a VRRP router functions as a virtual router backup, the order of ascendancy for the VRRP router to become a virtual router master if the virtual router master fails, the role that each VRRP router plays, and what happens if the virtual router master fails.		
If a VRRP router owns the IP address of the virtual router and the IP address of the physical interface, then this router functions as a virtual router master.		
then this router function		
By default, a preemptive takes over for the backup disable preemption, then		
By default, a preemptive takes over for the backup disable preemption, then	s as a virtual router master. scheme is enabled. A backup high-priority virtual router that becomes available o virtual router that was elected to become the virtual router master. If you the backup virtual router that is elected to become the virtual router master the original virtual router master recovers and becomes the master again.	
	forwarding-threshold         lower lower-value         upper upper-value         The default value is 100, address, the default value         VRRP configuration mode         Release         6.0(2)N1(1)         The priority determines value         Interval         The priority determines value	

switch(config-if)# no switchport
switch(config-if)# vrrp 250
switch(config-if-vrrp)# priority 2
switch(config-if-vrrp)#

## **Related Commands**

feature vrrpEnables VRRP.preemptEnables preemption on the virtual router.show vrrpDisplays VRRP configuration information.shutdown (VRRP)Disables the VRRP configuration.vrrpConfigures a VRRP group.	Command	Description	
show vrrp     Displays VRRP configuration information.       shutdown (VRRP)     Disables the VRRP configuration.	feature vrrp	Enables VRRP.	
shutdown (VRRP)     Disables the VRRP configuration.	preempt	Enables preemption on the virtual router.	
	show vrrp	Displays VRRP configuration information.	
vrrpConfigures a VRRP group.	shutdown (VRRP)	Disables the VRRP configuration.	
	vrrp	Configures a VRRP group.	