

A Commands

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

address (VRRP)

To add a single, primary IP address to a virtual router, use the **address** command. To remove an IP address from a virtual router, use the **no** form of this command.

address ip-address [secondary]

no address [ip-address [secondary]]

Syntax Description	ip-address	Virtual router address (IPv4). This address should be in the same subnet as the interface IP address.		
	secondary	(Optional) Specifies a secondary virtual router address.		
Command Default	None			
Command Modes	VRRP configuration mode			
Command History	Release	Modified		
	5.2(1)N1(1)	This command was introduced.		
Usage Guidelines	You can configure one virtual router IP address for a virtual router. If the configured IP address is the same as the interface IP address, this switch automatically owns the IP address. You can configure an IPv4 address only.			
	The master VRRP router drops the packets addressed to the virtual router's IP address because the virtual router is only intended as a next-hop router to forward packets. In NX-OS devices, some applications require that packets addressed to the virtual router's IP address be accepted and delivered. By using the secondary option to the virtual router IPv4 address, the VRRP router will accept these packets when it is the master.			
	This command does not require a license.			
Examples	This example show	vs how to configure a virtual router IP address:		
	<pre>switch(config)# interface ethernet 2/1 switch(config-if)# no switchport switch(config-if)# vrrp 250 switch(config-if-vrrp)# address 10.0.0.10</pre>			
	This example shows how to remove all the IP addresses (primary and secondary) using a single command:			
	<pre>switch(config-if-vrrp)# show running-config interface ethernet 9/10</pre>			
	!Command: show r !Time: Mon Apr 1	unning-config interface Ethernet9/10 4 06:04:18 2008		

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version 5.2(1)N1(1)
interface Ethernet9/10
vrrp 1
address 10.10.10.1/24
no shutdown
switch(config-if-vrrp)# no address
switch(config-if-vrrp)# show running-config interface ethernet 9/10
!Command: show running-config interface Ethernet1/5
!Time: Mon Apr 14 06:07:54 2008
version 5.2(1)N1(1)
interface Ethernet9/10
no switchport
vrrp 1
switch(config-if-vrrp)#
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Related	Commands
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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.	

advertisement-interval (VRRP)

To specify the time interval between the advertisement packets that are being sent to other Virtual Router Redundancy Protocol (VRRP) routers in the same group, use the **advertisement-interval** command. To return to the default interval value of 1 second, use the **no** form of this command.

advertisement-interval seconds

no advertisement-interval [seconds]

Syntax Description	seconds	Number of seconds between advertisement frames being sent. For IPv4, the range is from 1 to 255 seconds.	
Command Default	1 second		
Command Modes	VRRP configuration	on mode	
Command History	Release	Modified	
	5.2(1)N1(1)	This command was introduced.	
Usage Guidelines	VRRP advertisements communicate the priority and state of the virtual router master. The advertisements are encapsulated in IP packets and are sent to the IPv4 multicast address that is assigned to the VRRP group.		
	VRRP uses a dedicated Internet Assigned Numbers Authority (IANA) standard multicast address (224.0.0.18) for VRRP advertisements. This addressing scheme minimizes the number of routers that must service the multicasts and allows test equipment to accurately identify VRRP packets on a segment. The IANA-assigned VRRP IP protocol number is 112.		
Examples	This example shows how to specify an advertisement interval of 200 seconds for VRRP group 250:		
	<pre>switch(config)# interface ethernet 2/1 switch(config-if)# no switchport switch(config-if)# vrrp 250 switch(config-if-vrrp)# advertisement-interval 200 switch(config-if-vrrp)#</pre>		
Related Commands	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.	

authentication (VRRP)

To configure an authentication for the Virtual Router Redundancy Protocol (VRRP), use the **authentication** command. To disable authentication, use the **no** form of this command.

authentication text password

no authentication [text password]

Syntax Description	text password	Selects to use simple text password of up to 8 alphanumeric characters.	
Command Default	No authentication		
Command Modes	VRRP configuration mode		
Command History	Release	Modification	
	5.2(1)N1(1)	This command was introduced.	
Examples	This example shows how to configure MD5 authentication for VRRP: switch# configure terminal switch(config)# interface ethernet 2/1 switch(config-if)# no switchport switch(config-if)# vrrp 250 switch(config-if-vrrp)# authentication text mypwasswd switch(config-if-vrrp)#		
Related Commands	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.	

