

I Commands

This chapter describes the Cisco NX-OS unicast Routing Information Base (RIB) and the Forwarding Information Base (FIB) commands that begin with I.

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ip load-sharing address

To configure the load-sharing algorithm used by the unicast Forwarding Information Base (FIB), use the **ip load-sharing address** command. To restore the default, use the **no** form of this command.

ip load-sharing address {destination port destination | source-destination [port source-destination]} [universal-id seed]

no ip load-sharing address {destination port destination | source-destination [port source-destination]} [universal-id *seed*]

Syntax Description	destination port destination		
	source-destination	port. Sets the load-sharing algorithm based on the source and destination address.	
	port source-destination	(Optional) Sets the load-sharing algorithm based on the source and destination address and port address.	
	universal-id seed	(Optional) Sets the random seed for the load sharing hash algorithm. The range is from 1 to 4294967295.	
Command Default	Destination address and port a	uddress	
Command Modes	Global configuration mode		
Command History	Release Mo	dification	
	6.0(2)N1(1) Thi	s command was introduced.	
Usage Guidelines	Use the ip load-sharing address command to set the load-sharing algorithm that the unicast FIB uses to select a path from the equal-cost paths in the Routing Information Base (RIB).		
Examples	This example shows how to set the load-sharing algorithm to use the source and destination address: switch(config)# ip load-sharing address source-destination		
Related Commands			
Related Commands	Command	Description	
Kelaleu Commanus	Command show ip load-sharing	Description Displays the load-sharing algorithm.	
Related Commanus			

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ip route

To configure a static route, use the **ip route** command. To remove the static route, use the **no** form of this command.

ip route ip-prefix/mask {[interface] next-hop} [preference] [tag id]

no ip route *ip-prefix/mask* {[*interface*] *next-hop*} [*preference*] [**tag** *id*]

Syntax Description	ip-prefix/mask	IP prefix and prefix mask. The format is x.x.x.x/length. The length is 1 to 32.	
	interface	(Optional) Interface on which all packets are sent to reach this route. Use ? to display a list of supported interfaces.	
	next-hop	IP address of the next hop that can be used to reach that network. You can specify an IP address and an interface type and interface number. The format is x.x.x.x/length. The length is 1 to 32.	
	preference	(Optional) Route preference that is used as the administrative distance to this route. The range is from 1 to 255. The default is 1.	
	tag id	(Optional) Assigns a route tag that can be used to match against in a route map. The range is from 0 to 4294967295. The default is 0.	
Command Default	None		
Command Modes	Global configurati	on mode	
Command History	Release	Modification	
	6.0(2)N1(1)	This command was introduced.	
Usage Guidelines	Static routes have a default administrative distance of 1. If you want a dynamic routing protocol to tak precidence over a static route, you must configure the static route preference argument to be greater that the administrative distance of the dynamic routing protocol. For example, routes derived with the Enhanced Interior Gateway Routing Protocol (EIGRP) have a default administrative distance of 100. Thave a static route that would be overridden by an EIGRP dynamic route, you should specify an administrative distance greater than 100.		
Examples	This example shows how to create a static route for destinations with the IP address prefix 192.168.1.1/32, reachable through the next-hop address 10.0.0.2: switch(config) # ip route 192.168.1.1/32 10.0.0.2		
	This example show that can match on	vs how to assign a tag to the previous example so that you can configure a route map this static route:	
	<pre>switch(config)#</pre>	ip route 192.168.1.1/32 10.0.0.2 tag 5	

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This example shows how to choose a preference of 110. In this case, packets for prefix 10.0.0.0 are routed to a router at 172.31.3.4 if dynamic route information with an administrative distance less than 110 is not available.

```
switch# configure terminal
switch(config)# ip route 10.0.0.0/8 172.31.3.4 110
switch(config)#
```

Related Commands	Command	Description
	match tag	Matches the tag value associated with a route.

