



# R Commands

---

This chapter describes the Cisco NX-OS Routing Information Protocol (RIP) commands that begin with R.

# redistribute (RIP)

To redistribute routes from another routing domain into the Routing Information Protocol (RIP), use the **redistribute** command. To restore the system to its default condition in which the software does not redistribute routes, use the **no** form of this command.

**redistribute** { **bgp** *id* | **direct** | **eigrp** *id* | **ospf** *id* | **static** } **route-map** *map-name*

## Syntax Description

<b>bgp</b> <i>id</i>	Redistributes routes from the Border Gateway Protocol (BGP). The ID is an autonomous system number. The range for 2-byte numbers is from 1 to 65535. The range for 4-byte numbers is from 1.0 to 65535.65535.
<b>direct</b>	Redistributes routes from directly connected routes only.
<b>eigrp</b> <i>id</i>	Redistributes routes from the Enhanced Interior Gateway Routing Protocol (EIGRP). The ID is an EIGRP instance name from which routes are to be redistributed. The value takes the form of a string. You can enter a decimal number, but Cisco Nexus 5500 stores it internally as a string.
<b>ospf</b> <i>id</i>	Redistributes routes from the Open Shortest Path First (OSPF) protocol. The ID is an OSPF instance name from which routes are to be redistributed. The value takes the form of a string. A decimal number can be entered, but it is stored internally as a string.
<b>static</b>	Redistributes routes from IP static routes.
<b>route-map</b> <i>map-name</i>	Associates a route map to set the redistribution policy for RIP.

## Command Default

Route redistribution is disabled.

## Command Modes

Router address-family configuration mode

## Command History

Release	Modification
5.2(1)N1(1)	This command was introduced.

## Usage Guidelines

Cisco Nexus 5500 filters redistributed routing information using a route map. You can configure the route map to set the RIP metric used for redistributed routes. If you do not set the RIP metric with a route map, Cisco Nexus 5500 determines the metric based on the redistributed protocol or by the **default-metric** command. If Cisco Nexus 5500 cannot determine a valid metric, then it does not redistribute the routes.

## Examples

This example shows how to redistribute BGP routes into a RIP process:

```
switch(config)# router rip Enterprise
switch(config-router)# address-family ipv4 unicast
switch(config-router-af)# redistribute bgp 64496
switch(config-router-af)#
```

Related Commands	Command	Description
	<b>address-family</b>	Enters address-family configuration mode.
	<b>default-information originate</b>	Generates a default route for routes redistributed into RIP.
	<b>default-metric</b>	Sets default metric values for routes redistributed from other protocols into RIP.
	<b>show ip rip</b>	Displays a summary of RIP information for all RIP instances.

# restart (RIP)

To restart a Routing Information Protocol (RIP) instance and remove all associated neighbors, use the **restart** command.

**restart eigrp** *instance-tag*

Syntax Description	<i>instance-tag</i>	Name for an RIP routing instance. The name can be a maximum of 20 alphanumeric characters.
--------------------	---------------------	--

Command Default	None
-----------------	------

Command Modes	Global configuration mode
---------------	---------------------------

Command History	Release	Modification
	5.2(1)N1(1)	This command was introduced.

Usage Guidelines	This command requires the LAN Base Services license.
------------------	--

Examples	This example shows how to restart the RIP instance and remove all neighbors:
----------	--

```
switch(config)# restart rip Enterprise
switch(config)#
```

Related Commands	Command	Description
	<b>copy running-config startup-config</b>	Saves the configuration in the startup configuration file.
	<b>show ip eigrp interfaces</b>	Displays information about EIGRP interfaces.

# router rip

To configure the Routing Information Protocol (RIP) routing process, use the **router rip** command. To turn off the RIP routing process, use the **no** form of this command.

**router rip** *instance-tag*

**no router rip**

## Syntax Description

<i>instance-tag</i>	Name for this RIP instance.
---------------------	-----------------------------

## Command Default

No RIP routing process is defined.

## Command Modes

Global configuration mode

## Command History

Release	Modification
5.2(1)N1(1)	This command was introduced.

## Examples

This example shows how to begin the RIP routing process:

```
switch(config)# router rip Enterprise
```

## Related Commands

Command	Description
<b>ip router rip</b>	Specifies a RIP instance for an interface.

