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## R Commands

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

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## 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 NX-OS 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                 |
|-----------------|-------------|------------------------------|
|                 | 5.0(3)N1(1) | This command was introduced. |

**Usage Guidelines** Cisco NX-OS 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 NX-OS determines the metric based on the redistributed protocol or by the **default-metric** command. If Cisco NX-OS 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)#
```

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| <b>Related Commands</b> | <b>Command</b>                       | <b>Description</b>   |
|-------------------------|--------------------------------------|--|
|                         | <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.                       |

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## restart (RIP)

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

```
restart eigrp instance-tag
```

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

|                        |      |
|------------------------|------|
| <b>Command Default</b> | None |
|------------------------|------|

|                      |                           |
|----------------------|---------------------------|
| <b>Command Modes</b> | Global configuration mode |
|----------------------|---------------------------|

| <b>Command History</b> | <b>Release</b> | <b>Modification</b>          |
|------------------------|----------------|------------------------------|
|                        | 5.0(3)N1(1)    | This command was introduced. |

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

| <b>Related Commands</b> | <b>Command</b>                            | <b>Description</b>   |
|-------------------------|---|--|
|                         | <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.               |

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## 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                 |
|-------------|------------------------------|
| 5.0(3)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. |

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