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

bgp *id*	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.
direct	Redistributes routes from directly connected routes only.
eigrp *id*	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.
ospf *id*	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.
static	Redistributes routes from IP static routes.
route-map *map-name*	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
address-family	Enters address-family configuration mode.
default-information originate	Generates a default route for routes redistributed into RIP.
default-metric	Sets default metric values for routes redistributed from other protocols into RIP.
show ip rip	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

instance-tag	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
copy running-config startup-config	Saves the configuration in the startup configuration file.
show ip eigrp interfaces	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

instance-tag	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
ip router rip	Specifies a RIP instance for an interface.