Show Commands

This chapter describes the Cisco NX-OS Enhanced Interior Gateway Routing Protocol (EIGRP) **show** commands.

show ip eigrp

To display a summary of the Enhanced Interior Gateway Routing Protocol (EIGRP) processes, use the **show ip eigrp** command.

show ip eigrp [*instance-tag*]

Syntax Description

instance-tag	(Optional) Name of the EIGRP instance. The *instance-tag* can be any case-sensitive, alphanumeric string up to 20 characters.

Command Default

None

Command Modes

Any command 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 display all the EIGRP instances:

```
switch# show ip eigrp
IP-EIGRP AS 65535 ID 3.1.1.1 VRF default
  Process-tag: Test1
  Status: running
  Authentication mode: none
  Authentication key-chain: none
  Metric weights: K1=1 K2=0 K3=1 K4=0 K5=0
  IP proto: 88 Multicast group: 224.0.0.10
  Int distance: 90 Ext distance: 170
  Max paths: 8
  Number of EIGRP interfaces: 8 (0 loopbacks)
  Number of EIGRP passive interfaces: 0
  Number of EIGRP peers: 8
  Redistributing:
    direct route-map SVI-EIGRP
  Graceful-Restart: Enabled
  Stub-Routing: Disabled
  NSF converge time limit/expiries: 120/0
  NSF route-hold time limit/expiries: 240/0
  NSF signal time limit/expiries: 20/0
  Redistributed max-prefix: Disabled
switch#
```

Related Commands

Command	Description
router eigrp	Configures an EIGRP instance.
show running-config eigrp	Displays EIGRP running configuration information.

show ip eigrp accounting

To display prefix accounting information for the Enhanced Interior Gateway Routing Protocol (EIGRP) processes, use the **show ip eigrp accounting** command.

show ip eigrp [*instance-tag*] **accounting** [**vrf** {*vrf-name* | **all** | **default** | **management**}]

Syntax Description

instance-tag	(Optional) Name of the EIGRP instance. This option is available when a virtual routing and forwarding (VRF) instance is not specified. The instance tag can be any case-sensitive, alphanumeric string up to 20 characters.
vrf *vrf-name*	(Optional) Specifies the name of the virtual routing and forwarding (VRF) instance. The *vrf-name* argument can be specified as any case-sensitive, alphanumeric string up to 32 characters.
all	(Optional) Specifies all VRF instances.
default	(Optional) Specifies the default VRF.
management	(Optional) Specifies the management VRF.

Command Default

None

Command Modes

Any command 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 display the EIGRP accounting information:

```
switch# show ip eigrp accounting
IP-EIGRP Accounting Statistics for AS 65535 VRF default
Total Prefix Count: 3536

States: A-Adjacency, P-Pending, D-Down

State Address/Source   Interface        Prefix   Restart  Restart/
                                        Count     Count   Reset(s)
 A    Redistributed    ----              118       0        0
 A    10.20.150.2      Po2001            3413      0        0
 A    10.20.200.2      Po2000            3418      0        0
 A    10.0.1.1         Eth1/26           3419      0        0
 A    10.50.2.1        Eth2/5            3419      0        0
 A    10.50.1.1        Eth2/6            3419      0        0
 A    10.50.3.1        Eth2/7            3419      0        0
 A    10.20.5.2        Eth3/11           3419      0        0
```

```
 A    10.20.6.2         Eth3/12            3419       0         0
switch#
```

Related Commands

Command	Description
router eigrp	Configures an EIGRP instance.
show running-config eigrp	Displays EIGRP running configuration information.

show ip eigrp interfaces

To display information about interfaces configured for the Enhanced Interior Gateway Routing Protocol (EIGRP), use the **show ip eigrp interfaces** command.

show ip eigrp [*instance-tag*] **interfaces** [{**ethernet** s*lot*/[*QSFP-module*/]*port* | **loopback** *if_number* | **port-channel** *number* | **vlan** *vlan-id*}] [**brief**] [**vrf** {*vrf-name* | **all** | **default** | **management**}]

Syntax Description

instance-tag	(Optional) EIGRP Instance. The instance tag can be any case-sensitive, alphanumeric string up to 20 characters.
ethernet s*lot*/[*QSFP-module*/]*port*	(Optional) Specifies the Ethernet interface and the slot number and port number. The *slot* number is from 1 to 255. The *QSFP-module* number is from 1 to 4. The *port* number is from 1 to 128. **Note** The *QSFP-module* number applies only to the QSFP+ Generic Expansion Module (GEM).
loopback *if_number*	(Optional) Specifies the loopback interface. The loopback interface number is from 0 to 1023.
port-channel *number*	(Optional) Specifies the EtherChannel interface and EtherChannel number. The range is from 1 to 4096.
vlan *vlan-id*	(Optional) Specifies the VLAN interface. The range is from 1 to 4094.
brief	(Optional) Displays a brief summary of EIGRP interface information.
vrf *vrf-name*	(Optional) Specifies the name of the virtual routing and forwarding (VRF) instance. The *vrf-name* argument can be specified as any case-sensitive, alphanumeric string up to 32 characters.
all	(Optional) Specifies all VRF instances.
default	(Optional) Specifies the default VRF.
management	(Optional) Specifies the management VRF.

Command Default

This command shows all interfaces for the default VRF if no VRF or no interface is specified.

Command Modes

Any command mode

Command History

Release	Modification
6.0(2)N1(2)	Support for the QSFP+ GEM was added.
5.2(1)N1(1)	This command was introduced.

Usage Guidelines

Use the **show ip eigrp interfaces** command to determine on which interfaces EIGRP is active and learn information about EIGRP related to those interfaces.

If you specify an interface, only that interface is displayed. Otherwise, all interfaces on which EIGRP is running are displayed.

If you specify an autonomous system, only the routing process for the specified autonomous system is displayed. Otherwise, all EIGRP processes are displayed.

This command requires the LAN Base Services license.

Examples

This example shows how to display information about EIGRP interfaces:

```
switch# show ip eigrp interfaces brief
IP-EIGRP interfaces for process 65535 VRF default

                        Xmit Queue   Mean   Pacing Time   Multicast    Pending
Interface        Peers  Un/Reliable  SRTT   Un/Reliable   Flow Timer   Routes
Eth1/26            1        0/0        16       0/1          64           0
Eth2/5             1        0/0        16       0/1          64           0
Eth2/6             1        0/0        16       0/1          64           0
Eth2/7             1        0/0        13       0/1          50           0
Eth3/11            1        0/0        18       0/1          80           0
Eth3/12            1        0/0        14       0/1          64           0
Po2000             1        0/0        13       0/1          72           0
Po2001             1        0/0        20       0/1          128          0
switch#
```

This example shows how to display information about a particular EIGRP interface:

```
switch# show ip eigrp interfaces ethernet 2/5
IP-EIGRP interfaces for process 65535 VRF default

                        Xmit Queue   Mean   Pacing Time   Multicast    Pending
Interface        Peers  Un/Reliable  SRTT   Un/Reliable   Flow Timer   Routes
Eth2/5             1        0/0        16       0/1          64           0
  Hello interval is 5 sec
  Holdtime interval is 15 sec
  Next xmit serial <none>
  Un/reliable mcasts: 0/178  Un/reliable ucasts: 292/17
  Mcast exceptions: 4  CR packets: 4  ACKs suppressed: 8
  Retransmissions sent: 8  Out-of-sequence rcvd: 146
  Authentication mode is not set
switch#
```

Related Commands

Command	Description
show ip eigrp neighbors	Displays the neighbors discovered by EIGRP.
show running-config eigrp	Displays EIGRP running configuration information.

show ip eigrp neighbors

To display information about neighbors discovered by the Enhanced Interior Gateway Routing Protocol (EIGRP), use the **show ip eigrp neighbors** command.

show ip eigrp [*instance-tag*] **neighbors** [**detail**] [{**ethernet** *slot*/[*QSFP-module*/]*port* | **loopback** *if_number* | **port-channel** *number* | **vlan** *vlan-id*}] [**vrf** {*vrf-name* | **all** | **default** | **management**}]

Syntax Description

instance-tag	(Optional) Name of the EIGRP instance. The instance tag can be any case-sensitive, alphanumeric string up to 20 characters.
detail	(Optional) Displays detailed EIGRP neighbor information.
ethernet *slot*/[*QSFP-module*/]*port*	(Optional) Specifies the Ethernet interface and the slot number and port number. The *slot* number is from 1 to 255. The *QSFP-module* number is from 1 to 4. The *port* number is from 1 to 128. **Note** The *QSFP-module* number applies only to the QSFP+ Generic Expansion Module (GEM).
loopback *if_number*	(Optional) Specifies the loopback interface. The loopback interface number is from 0 to 1023.
port-channel *number*	(Optional) Specifies the EtherChannel interface and EtherChannel number. The range is from 1 to 4096.
vlan *vlan-id*	(Optional) Specifies the VLAN interface. The range is from 1 to 4094.
vrf *vrf-name*	(Optional) Specifies the name of the virtual routing and forwarding (VRF) instance. The *vrf-name* argument can be specified as any case-sensitive, alphanumeric string up to 32 characters.
all	(Optional) Specifies all VRF instances.
default	(Optional) Specifies the default VRF.
management	(Optional) Specifies the management VRF.

Command Default

This command displays all neighbors for the default VRF on all interfaces if no VRF or interface is specified.

Command Modes

Any command mode

Command History

Release	Modification
6.0(2)N1(2	Support for the QSFP+ GEM was added.
5.2(1)N1(1)	This command was introduced.

Usage Guidelines

Use the **show ip eigrp neighbors** command to determine when neighbors become active and inactive. This command is also useful for debugging certain types of transport problems.

This command requires the LAN Base Services license.

Examples

This example shows how to display information about EIGRP neighbors:

```
switch# show ip eigrp neighbors
IP-EIGRP neighbors for process 65535 VRF default
H   Address                 Interface       Hold  Uptime  SRTT   RTO  Q  Seq
                                            (sec)         (ms)       Cnt Num
7   10.20.150.2             Po2001          12   03:44:02  20   200   0   10331
6   10.20.200.2             Po2000          14   03:44:02  13   200   0   158157
5   10.40.1.1               Eth1/26         13   03:44:14  16   200   0   158164
4   10.50.2.1               Eth2/5          12   03:44:14  16   200   0   158166
3   10.50.1.1               Eth2/6          13   03:44:15  16   200   0   158165
2   10.50.3.1               Eth2/7          11   03:44:15  13   200   0   158167
1   10.20.5.2               Eth3/11         14   03:44:16  18   200   0   158158
0   10.20.6.2               Eth3/12         11   03:44:17  14   200   0   158163
switch#
```

This example shows how to display detailed information about EIGRP neighbors:

```
switch# show ip eigrp neighbors detail
IP-EIGRP neighbors for process 65535 VRF default
H   Address                 Interface       Hold  Uptime  SRTT   RTO  Q  Seq
                                            (sec)         (ms)       Cnt Num
7   10.20.150.2             Po2001          10   03:45:21  20   200   0   10331
   Version 12.4/1.2, Retrans: 4, Retries: 0, Prefixes: 3413
6   10.20.200.2             Po2000          12   03:45:22  13   200   0   158157
   Version 12.4/1.2, Retrans: 2, Retries: 0, Prefixes: 3418
5   10.40.1.1                Eth1/26         11   03:45:34  16   200   0   158164
   Version 12.4/1.2, Retrans: 5, Retries: 0, Prefixes: 3419
4   10.50.2.1               Eth2/5          12   03:45:34  16   200   0   158166
   Version 12.4/1.2, Retrans: 8, Retries: 0, Prefixes: 3419
3   10.50.1.1               Eth2/6          12   03:45:35  16   200   0   158165
   Version 12.4/1.2, Retrans: 4, Retries: 0, Prefixes: 3419
2   10.50.3.1               Eth2/7          13   03:45:35  13   200   0   158167
   Version 12.4/1.2, Retrans: 3, Retries: 0, Prefixes: 3419
1   10.20.5.2               Eth3/11         12   03:45:36  18   200   0   158158
   Version 12.4/1.2, Retrans: 7, Retries: 0, Prefixes: 3419
0   10.20.6.2               Eth3/12         10   03:45:36  14   200   0   158163
   Version 12.4/1.2, Retrans: 5, Retries: 0, Prefixes: 3419
switch#
```

Related Commands

Command	Description
clear ip eigrp neighbors	Clears neighbors for EIGRP.
show running-config eigrp	Displays EIGRP running configuration information.

show ip eigrp route

To display the Enhanced Interior Gateway Routing Protocol (EIGRP) routes, use the **show ip eigrp route-map statistics** command in any mode.

show ip eigrp [*instance-tag*] **route** [*ip-prefix/length*] [**active**] [**all-links**] [**detail-links**] [**pending**] [**summary**] [**zero-successors**] [**vrf** {*vrf-name* | **all** | **default** | **management**}]

Syntax Description

instance-tag	(Optional) Name of the EIGRP instance. The instance tag can be any case-sensitive, alphanumeric string up to 20 characters.
ip-prefix/length	(Optional) IP address in four-part, dotted-decimal notation with a network mask indicated as a slash (/) and number. For example, /8 indicates that the first 8 bits of the mask are 1s, and the corresponding bits of the address are the network address.
active	(Optional) Displays only active entries in the EIGRP topology table.
all-links	(Optional) Displays all entries in the EIGRP topology table.
detail-links	(Optional) Displays detailed information for all entries in the EIGRP topology table.
pending	(Optional) Displays all entries in the EIGRP topology table that are waiting for an update from a neighbor or are waiting to reply to a neighbor.
summary	(Optional) Displays a summary of theEIGRP topology table.
zero-successors	(Optional) Displays available routes in the EIGRP topology table.
vrf *vrf-name*	(Optional) Specifies the name of the virtual routing and forwarding (VRF) instance. The *vrf-name* argument can be specified as any case-sensitive, alphanumeric string up to 32 characters.
all	(Optional) Specifies all VRF instances.
default	(Optional) Specifies the default VRF.
management	(Optional) Specifies the management VRF.

Command Default

None

Command Modes

Any command mode

Command History

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

Usage Guidelines

This command requires a LAN Base Services license.

Examples

This example shows how to display the EIGRP routes:

```
switch# show ip eigrp route
```

```
IP-EIGRP Topology Table for AS(65535)/ID(3.1.1.1) VRF default

Codes: P - Passive, A - Active, U - Update, Q - Query, R - Reply,
       r - reply Status, s - sia Status

P 192.0.2.0/24, 7 successors, FD is 13056
        via 192.0.2.1 (13056/12800), Ethernet2/7
        via 192.0.2.5 (13056/12800), Ethernet1/26
        via 192.0.2.3 (13056/12800), Ethernet3/12
        via 192.0.2.6 (13056/12800), Ethernet3/11
        via 192.0.2.4 (13056/12800), port-channel2000
        via 192.0.2.2 (13056/12800), Ethernet2/6
        via 192.0.2.7 (13056/12800), Ethernet2/5
P 192.0.2.1/24, 7 successors, FD is 13056
        via 192.0.2.1 (13056/12800), Ethernet2/7
        via 192.0.2.2 (13056/12800), Ethernet2/6
        via 192.0.2.3 (13056/12800), Ethernet3/12
        via 192.0.2.4 (13056/12800), port-channel2000
        via 192.0.2.6 (13056/12800), Ethernet3/11
        via 192.0.2.5 (13056/12800), Ethernet1/26
        via 192.0.2.7 (13056/12800), Ethernet2/5
P 192.0.2.5/24, 7 successors, FD is 13056
        via 192.0.2.1 (13056/12800), Ethernet2/7
<--Output truncated-->
switch#
```

Related Commands

Command	Description
clear ip eigrp route-map statistics	Clears route-map statistics for EIGRP.
show ip eigrp traffic	Displays EIGRP traffic statistics.
show running-config eigrp	Displays EIGRP running configuration information.

show ip eigrp route-map statistics

To display the route redistribution statistics for the Enhanced Interior Gateway Routing Protocol (EIGRP), use the **show ip eigrp route-map statistics** command in any mode.

show ip eigrp [*instance-tag*] **route-map statistics redistribute** {**bgp** *id* | **direct** | **eigrp** *id* | **ospf** *id* | **rip** *id* | **static**} [**vrf** {*vrf-name* | **all** | **default** | **management**}]

Syntax Description

instance-tag	(Optional) Name of the EIGRP instance. The instance tag can be any case-sensitive, alphanumeric string up to 20 characters.
bgp	Displays policy statistics for the Border Gateway Protocol (BGP).
direct	Displays policy statistics for directly connected routes only.
eigrp	Displays policy statistics for EIGRP.
ospf	Displays policy statistics for the Open Shortest Path First (OSPF) protocol.
rip	Displays policy statistics for the Routing Information Protocol (RIP).
static	Displays policy statistics for IP static routes.
id	For the **bgp** keyword, 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. For the **eigrp** keyword, 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. For the **ospf** keyword, an OSPF 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.
vrf *vrf-name*	(Optional) Specifies the name of the virtual routing and forwarding (VRF) instance. The *vrf-name* argument can be specified as any case-sensitive, alphanumeric string up to 32 characters.
all	(Optional) Specifies all VRF instances.
default	(Optional) Specifies the default VRF.
management	(Optional) Specifies the management VRF.

Command Default

None

Command Modes

Any command mode

Command History

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

Usage Guidelines

This command requires a LAN Base Services license.

Examples

This example shows how to display route-map statistics for EIGRP:

```
switch# show ip eigrp route-map statistics redistribute direct
C: No. of comparisions, M: No. of matches

route-map SVI-EIGRP permit 10
  match source-protocol direct                                  C: 129    M: 0
Total accept count for policy: 129
Total reject count for policy: 0
switch#
```

Related Commands

Command	Description
clear ip eigrp route-map statistics	Clears route-map statistics for EIGRP.
show ip eigrp traffic	Displays EIGRP traffic statistics.
show running-config eigrp	Displays EIGRP running configuration information.

show ip eigrp topology

To display the Enhanced Interior Gateway Routing Protocol (EIGRP) topology table, use the **show ip eigrp topology** command.

show ip eigrp [*instance-tag*] **topology** [*ip-address/length*] [**active | all-links | detail-links | pending | summary | zero-successors**] [**vrf** {*vrf-name* | **all** | **default** | **management**}]

Syntax Description

instance-tag	(Optional) Name of the EIGRP instance. The instance tag can be any case-sensitive, alphanumeric string up to 20 characters.
ip-address/length	(Optional) IP address in four-part, dotted-decimal notation with a network mask indicated as a slash (/) and number. For example, /8 indicates that the first 8 bits of the mask are 1s, and the corresponding bits of the address are the network address.
active	(Optional) Displays only active entries in the EIGRP topology table.
all-links	(Optional) Displays all entries in the EIGRP topology table.
detail-links	(Optional) Displays detailed information for all entries in the EIGRP topology table.
pending	(Optional) Displays all entries in the EIGRP topology table that are waiting for an update from a neighbor or are waiting to reply to a neighbor.
summary	(Optional) Displays a summary of the EIGRP topology table.
zero-successors	(Optional) Displays available routes in the EIGRP topology table.
vrf *vrf-name*	(Optional) Specifies the name of the virtual routing and forwarding (VRF) instance. The *vrf-name* argument can be specified as any case-sensitive, alphanumeric string up to 32 characters.
all	(Optional) Specifies all VRF instances.
default	(Optional) Specifies the default VRF.
management	(Optional) Specifies the management VRF.

Command Default

This command displays information for the default VRF if no VRF is specified.

Command Modes

Any command mode

Command History

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

Usage Guidelines

Use the **show ip eigrp topology** command to determine Diffusing Update Algorithm (DUAL) states and to debug possible DUAL problems.

When you use the **show ip eigrp topology** command without any keywords or arguments, Cisco Nexus 5500 displays only routes that are feasible successors.

This command requires the LAN Base Services license.

Examples

This example shows how to display the EIGRP topology table. The EIGRP metrics for specified internal routes and external routes are displayed.

```
switch# show ip eigrp topology 192.0.2.0/24
IP-EIGRP (AS 65535): Topology entry for 192.0.2.0/24
  State is Passive, Query origin flag is 1, 7 Successor(s), FD is 13056
  Routing Descriptor Blocks:
  192.0.2.1 (Ethernet2/7), from 192.0.2.1, Send flag is 0x0
      Composite metric is (13056/12800), Route is External
      Vector metric:
        Minimum bandwidth is 500000 Kbit
        Total delay is 310 microseconds
        Reliability is 200/255
        Load is 1/255
        Minimum MTU is 1500
        Hop count is 1
      External data:
        Originating router is 1.1.1.1
        AS number of route is 0
        External protocol is OSPF, external metric is 0
        Administrator tag is 0 (0x00000000)
  192.0.2.2 (Ethernet2/6), from 192.0.2.2, Send flag is 0x0
      Composite metric is (13056/12800), Route is External
      Vector metric:
        Minimum bandwidth is 500000 Kbit
        Total delay is 310 microseconds
        Reliability is 200/255
        Load is 1/255
        Minimum MTU is 1500
        Hop count is 1
      External data:
        Originating router is 1.1.1.1
        AS number of route is 0
        External protocol is OSPF, external metric is 40
        Administrator tag is 0 (0x00000000)
  192.0.2.3 (Ethernet3/12), from 192.0.2.3, Send flag is 0x0
      Composite metric is (13056/12800), Route is External
      Vector metric:
        Minimum bandwidth is 500000 Kbit
        Total delay is 310 microseconds
        Reliability is 200/255
        Load is 1/255
        Minimum MTU is 1500
        Hop count is 1
      External data:
        Originating router is 1.1.1.1
        AS number of route is 0
        External protocol is OSPF, external metric is 40
        Administrator tag is 0 (0x00000000)
  192.0.2.6 (Ethernet3/11), from 192.0.2.6, Send flag is 0x0
      Composite metric is (13056/12800), Route is External
      Vector metric:
        Minimum bandwidth is 500000 Kbit
        Total delay is 310 microseconds
        Reliability is 200/255
        Load is 1/255
        Minimum MTU is 1500
        Hop count is 1
      External data:
        Originating router is 1.1.1.1
```

```
      AS number of route is 0
      External protocol is OSPF, external metric is 40
      Administrator tag is 0 (0x00000000)
  192.0.2.4 (port-channel2000), from 192.0.2.4, Send flag is 0x0
    Composite metric is (13056/12800), Route is External
    Vector metric:
      Minimum bandwidth is 500000 Kbit
      Total delay is 310 microseconds
      Reliability is 200/255
      Load is 1/255
      Minimum MTU is 1500
      Hop count is 1
    External data:
      Originating router is 1.1.1.1
      AS number of route is 0
      External protocol is OSPF, external metric is 40
      Administrator tag is 0 (0x00000000)
  192.0.2.2 (Ethernet2/6), from 192.0.2.2, Send flag is 0x0
    Composite metric is (13056/12800), Route is External
    Vector metric:
      Minimum bandwidth is 500000 Kbit
      Total delay is 310 microseconds
      Reliability is 200/255
      Load is 1/255
      Minimum MTU is 1500
      Hop count is 1
    External data:
      Originating router is 1.1.1.1
      AS number of route is 0
      External protocol is OSPF, external metric is 40
      Administrator tag is 0 (0x00000000)
  192.0.2.7 (Ethernet2/5), from 192.0.2.7, Send flag is 0x0
    Composite metric is (13056/12800), Route is External
    Vector metric:
      Minimum bandwidth is 500000 Kbit
      Total delay is 310 microseconds
      Reliability is 200/255
      Load is 1/255
      Minimum MTU is 1500
      Hop count is 1
    External data:
      Originating router is 1.1.1.1
      AS number of route is 0
      External protocol is OSPF, external metric is 40
      Administrator tag is 0 (0x00000000)
  192.0.2.200 (port-channel2001), from 192.0.2.200, Send flag is 0x0
    Composite metric is (13312/13056), Route is External
    Vector metric:
      Minimum bandwidth is 500000 Kbit
      Total delay is 320 microseconds
      Reliability is 200/255
      Load is 1/255
      Minimum MTU is 1500
      Hop count is 2
    External data:
      Originating router is 1.1.1.1
      AS number of route is 0
      External protocol is OSPF, external metric is 40
      Administrator tag is 0 (0x00000000)
switch#
```

This example show how to display all the entries in the EIGRP topology table:

```
switch(config)# show ip eigrp topology all-links
```

This example shows how to display the detailed information for all entries in the EIGRP topology table:

```
switch(config)# show ip eigrp topology detail-links
```

This example shows how to display a summary of the topology table:

```
switch(config)# show ip eigrp topology summary
IP-EIGRP Topology Table for AS(65535)/ID(3.1.1.1) VRF default

Head serial 3, next serial 15631
3536 routes, 0 pending replies, 0 dummies
IP-EIGRP(0) enabled on 8 interfaces, 8 neighbors present on 8 interfaces
Quiescent interfaces:  Eth3/11 Po2000 Po2001 Eth2/7 Eth2/5 Eth2/6 Eth1/26 Eth3/12
switch#
```

This example shows how to display the active entries in the topology table:

```
switch(config-if)# show ip eigrp topology active
```

This example shows how to display zero-successors in the topology table:

```
switch(config-router)# show ip eigrp topology zero-successors
```

This example shows how to display pending entries:

```
switch(config)# show ip eigrp topology pending
```

Related Commands

Command	Description
show running-config eigrp	Displays EIGRP running configuration information.

show ip eigrp traffic

To display the number of Enhanced Interior Gateway Routing Protocol (EIGRP) packets sent and received, use the **show ip eigrp traffic** command.

show ip eigrp [*instance-tag*] **traffic** [**vrf** {*vrf-name* | **all** | **default** | **management**}]

Syntax Description

instance-tag	(Optional) Name of the EIGRP instance. The instance tag can be any case-sensitive, alphanumeric string up to 20 characters.
vrf *vrf-name*	(Optional) Specifies the name of the virtual routing and forwarding (VRF) instance. The *vrf-name* argument can be specified as any case-sensitive, alphanumeric string up to 32 characters.
all	(Optional) Specifies all VRF instances.
default	(Optional) Specifies the default VRF.
management	(Optional) Specifies the management VRF.

Command Default

This command displays information for the default VRF if no VRF is specified.

Command Modes

Any command mode

Command History

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

Usage Guidelines

Use the **show ip eigrp traffic** command to find the number of packets sent and received by this EIGRP instance.

In addition, this command is useful in determining whether packets from one node are not reaching the neighboring node due to connectivity or configuration problems.

This command requires the LAN Base Services license.

Examples

This example shows how to display the EIGRP traffic statistics:

```
switch# show ip eigrp traffic
IP-EIGRP Traffic Statistics for AS 65535 VRF default
  Hellos sent/received: 29838/44756
  Updates sent/received: 1448/1775
  Queries sent/received: 33/47
  Replies sent/received: 31/31
  Acks sent/received: 1759/2061
  Input queue high water mark 33, 0 drops
  SIA-Queries sent/received: 0/0
  SIA-Replies sent/received: 0/0
  Hello Process ID: (no process)
  PDM Process ID: (no process)
switch#
```

Related Commands

Command	Description
show running-config eigrp	Displays EIGRP running configuration information.

show running-config eigrp

To display the running configuration for the Enhanced Interior Gateway Routing Protocol (EIGRP) for IPv4 networks, use the **show running-config eigrp** command.

show running-config eigrp

Syntax Description

This command has no arguments or keywords.

Command Default

None

Command Modes

Any command 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 display the running configuration for EIGRP:

```
switch# show running-config eigrp

!Command: show running-config eigrp
!Time: Mon Feb 28 05:47:18 2011

version 5.2(1)N1(1)
feature eigrp

router eigrp Test1
  autonomous-system 65535
  default-metric 500000 30 200 1 1500
  redistribute direct route-map SVI-EIGRP

interface port-channel2000
  ip router eigrp Test1

interface port-channel2001
  ip router eigrp Test1

interface Ethernet1/26
  ip router eigrp Test1

interface Ethernet2/5
  ip router eigrp Test1

interface Ethernet2/6
  ip router eigrp Test1
```

```
interface Ethernet2/7
  ip router eigrp Test1

interface Ethernet3/11
  ip router eigrp Test1

interface Ethernet3/12
  ip router eigrp Test1


switch#
```

Related Commands

Command	Description
router ospf	Creates an OSPF instance.