A Commands

This chapter describes the Cisco NX-OS Enhanced Interior Gateway Routing Protocol (EIGRP) commands that begin with A.

address-family (EIGRP)

To configure an address family for the Enhanced Interior Gateway Routing Protocol (EIGRP), use the **address-family** command. To remove an address family, use the **no** form of this command.

> **address-family ipv4 unicast**

> **no address-family ipv4 unicast**

Syntax Description		
	ipv4	Specifies the IPv4 address family.
	unicast	Specifies unicast address support.

Command Default   None

Command Modes   Router configuration mode

Address family 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 set the IPv4 unicast address family for an EIGRP instance:

```
switch(config)# router eigrp 201
switch(config-router)# address-family ipv4 unicast
switch(config-router)#
```

Related Commands

Command	Description
default-information	Controls the distribution of a default route.
default-metric	Configures the default metric for routes redistributed into EIGRP.
distance	Configures the administrative distance.
maximum-paths	Configures the maximum number of equal-cost paths.
redistribute	Configures route redistribution for EIGRP.
router-id	Configures the router ID.
show ip eigrp	Displays EIGRP information.
timers	Configures the EIGRP timers.

authentication key-chain (EIGRP)

To enable authentication for the Enhanced Interior Gateway Routing Protocol (EIGRP) packets and to specify the set of keys that can be used on an interface, use the **authentication key-chain** command. To prevent authentication, use the **no** form of this command.

authentication key-chain *name-of-chain*

no authentication key-chain *name-of-chain*

Syntax Description	*name-of-chain*	Group of keys that are valid.

Command Default   No authentication is provided for EIGRP packets.

Command Modes   Router configuration mode

Address family configuration mode

VRF configuration mode

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

Usage Guidelines   Set the authentication mode using the **authentication mode** command in VRF configuration mode. You must separately configure a key chain using the **key-chain** command to complete the authentication configuration for an interface.

This command requires the LAN Base Services license.

Examples   This example shows how to configure the interface to accept and send any key that belongs to the key-chain trees:

```
switch(config)# router eigrp 209
switch(config-router)# vrf red
switch(config-router-vrf)# authentication key-chain trees
```

Related Commands	Command	Description
	authentication mode (EIGRP)	Sets the authentication mode for EIGRP in a VRF.
	ip authentication key-chain eigrp	Enables authentication for EIGRP and specifies the set of keys that can be used on an interface.
	key-chain	Creates a set of keys that can be used by an authentication method.
	show ip eigrp	Displays EIGRP information.

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authentication mode (EIGRP)

To specify the type of authentication used in the Enhanced Interior Gateway Routing Protocol (EIGRP) packets, use the **authentication mode** command. To remove authentication, use the **no** form of this command.

authentication mode md5

no authentication mode md5

Syntax Description	md5	Specifies Message Digest 5 (MD5) authentication.

Command Default None

Command Modes Router configuration mode

Address family configuration mode

VRF 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 configure the interface to use MD5 authentication:

```
switch(config)# router eigrp 209
switch(config-router)# vrf red
switch(config-router-vrf)# authentication mode md5
switch(config-router-vrf)#
```

Related Commands

Command	Description
authentication key-chain eigrp	Enables authentication for EIGRP and specifies the set of keys that can be used on an interface.
ip authentication mode eigrp	Configures the authentication mode for EIGRP on an interface.
key chain	Creates a set of keys that can be used by an authentication method.
show ip eigrp	Displays EIGRP information.

autonomous-system

To configure the autonomous system (AS) number for an Enhanced Interior Gateway Routing Protocol (EIGRP) address family, use the **autonomous-system** command. To revert to default, use the **no** form of this command.

autonomous-system *as-number*

no autonomous-system [*as-number*]

Syntax Description	*as-number*	Autonomous system number. The range is from 1 to 65535.

Command Default   None

Command Modes   Address family configuration mode

Command History

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

Usage Guidelines   Use the **autonomous-system** command to set a common AS number for all EIGRP instances in an address family.

This command requires the LAN Base Services license.

Examples   This example shows how to set an AS number for EIGRP for IPv4 unicast:

```
switch(config)# router eigrp 201
switch(config-router)# address-family ipv4 unicast
switch(config-router-af)# autonomous-system 64496
switch(config-router-af)#
```

Related Commands

Command	Description
address-family (EIGRP)	Enters the address family configuration mode for EIGRP.