Table 7: show bgp af-group Field Descriptions, on page 362 describes the significant fields shown in the display.

This table describes the significant fields shown in the display.

Table 7: show bgp af-group Field Descriptions

Field	Description
[ ]	Configures the command directly on the specified address family group.
a:	Indicates the name that follows is an address family group.
n:	Indicates the name that follows is a neighbor group.
[dflt]	Indicates the setting is not explicitly configured or inherited, and the default value for the setting is used. This field may be shown when the **defaults** keyword is specified.
<not set>	Indicates that the configuration is disabled by default. This field may be shown when the **defaults** keyword is specified.

Related Commands

Command	Description
af-group, on page 26	Configures a BGP address family group.
show bgp neighbors, on page 409	Displays information about BGP neighbors, including configuration inherited from neighbor groups, session groups, and address family groups.
show bgp neighbor-group, on page 405	Displays information about configuration for neighbor groups.
use, on page 562 **af-group**	Configures an af-group to inherit the configuration of a specified af-group.

show bgp attribute-key

To display all existing attribute keys, use the **show bgp attribute-key**command in EXEC mode.

show bgp {**ipv4** | **ipv6** | **all** | **vpnv4 unicast** | **vrf**} **attribute-key**

Syntax Description

ipv4	(Optional) Specifies IP Version 4 address prefixes.
unicast	(Optional) Specifies unicast address prefixes.
multicast	(Optional) Specifies multicast address prefixes.
labeled-unicast	(Optional) Specifies labeled unicast address prefixes.
all	(Optional) For address family, specifies prefixes for all address families.
tunnel	(Optional) Specifies tunnel address prefixes.
all	(Optional) For subaddress family, specifies prefixes for all subaddress families.
ipv6	(Optional) Specifies IP Version 6 address prefixes.
vpnv4-unicast	(Optional) Specifies VPNv4 unicast address families.
vrf	(Optional) Specifies VPN routing and forwarding (VRF) instance.
vrf-name	(Optional) Name of a VRF.
all	(Optional) For VRF, specifies all VRFs.
ipv4 { **unicast** | **labeled-unicast** }	(Optional) For VRF, specifies IPv4 unicast or labeled-unicast address families.

Command Default

If no address family or subaddress family is specified, the default address family and subaddress family specified using the **set default-afi** and **set default-safi** commands are used.

Command Modes

EXEC

Command History

Release	Modification
Release 3.7.2	This command was introduced.

Usage Guidelines

To use this command, you must be in a user group associated with a task group that includes appropriate task IDs. If the user group assignment is preventing you from using a command, contact your AAA administrator for assistance.

Note The **set default-afi** command is used to specify the default address family for the session, and the **set default-safi** command is used to specify the default subaddress family for the session. See the *System Management Command Reference for Cisco ASR 9000 Series Routers* for detailed information and syntax for the **set default-afi** and **set default-safi** commands. If you do not specify a default address family, the default address family is IPv4. If you do not specify a default subaddress family, the default subaddress family is unicast.

Task ID

Task ID	Operations
bgp	read

Examples

The following is sample output from the **show bgp attribute-key**command in EXEC mode:

```
RP/0/RSP0/CPU0:router# show bgp all all attribute-key

Address Family: IPv4 Unicast
============================

BGP router identifier 10.0.0.1, local AS number 1
BGP generic scan interval 60 secs
BGP main routing table version 109
BGP scan interval 60 secs
Status codes: s suppressed, d damped, h history, * valid, > best
              i - internal, S stale
Origin codes: i - IGP, e - EGP, ? - incomplete
   Network            Next Hop        AttrKey
*> 1.1.0.0/16         0.0.0.0         0x00000002
*> 10.0.0.0/16        0.0.0.0         0x00000002
*> 12.21.0.0/16       0.0.0.0         0x00000002
*> 194.3.192.1/32     10.0.101.1      0x00000009
*> 194.3.192.2/32     10.0.101.1      0x00000009
*> 194.3.192.3/32     10.0.101.1      0x00000009
*> 194.3.192.4/32     10.0.101.1      0x00000009
*> 194.3.192.5/32     10.0.101.1      0x00000009

Processed 8 prefixes, 8 paths

Address Family: IPv4 Multicast
==============================

BGP router identifier 10.0.0.1, local AS number 1
BGP generic scan interval 60 secs
BGP main routing table version 15
BGP scan interval 60 secs
Status codes: s suppressed, d damped, h history, * valid, > best
              i - internal, S stale
Origin codes: i - IGP, e - EGP, ? - incomplete
   Network            Next Hop        AttrKey
*> 194.3.193.2/32     10.0.101.1      0x00000009
*> 194.3.193.3/32     10.0.101.1      0x00000009

Processed 2 prefixes, 2 paths

Address Family: IPv6 Unicast
```

```
============================

BGP router identifier 10.0.0.1, local AS number 1
BGP generic scan interval 60 secs
BGP main routing table version 19
BGP scan interval 60 secs
Status codes: s suppressed, d damped, h history, * valid, > best
              i - internal, S stale
Origin codes: i - IGP, e - EGP, ? - incomplete
   Network            Next Hop        AttrKey
*> 2222::1111/128     2222::2         0x00000009
*> 2222::1112/128     2222::2         0x00000009

Processed 2 prefixes, 2 paths
```

This table describes the significant fields shown in the display.

Table 8: show bgp attribute-key Field Descriptions

Field	Description
BGP router identifier	BGP identifier for the local system.
local AS number	Autonomous system number for the local system.
BGP generic scan interval	Interval (in seconds) between scans of the BGP table by a generic scanner.
BGP main routing table version	Last version of the BGP database that was installed into the main routing table.
BGP scan interval	Interval (in seconds) between scans.
Status codes	Status of the table entry. The status is displayed as a three-character field at the beginning of each line in the table. The first character may be (in order of precedence): S—Path is stale, indicating that a graceful restart is in progress with the peer from which the route was learned. s—Path is more specific than a locally sourced aggregate route and has been suppressed. *—Path is valid. The second character may be (in order of precedence): >—Path is the best path to use for that network. d—Path is dampened. h—Path is a history entry, representing a route that is currently withdrawn, but that is being maintained to preserve dampening information. Such routes should never be marked as valid. The third character may be: i—Path was learned by an internal BGP (iBGP) session.

Field	Description
Origin codes	Origin of the path. The origin code is displayed at the end of each line in the table. It can be one of the following values: i—Path originated from an Interior Gateway Protocol (IGP) and was sourced by BGP using a **network** or **aggregate-address** command. e—Entry originated from an Exterior Gateway Protocol (EGP). ?—Origin of the path is not clear. Usually, this is a route that is redistributed into BGP from an IGP.
Network	IP prefix and prefix length for a network.
Next Hop	IP address of the next system that is used when a packet is forwarded to the destination network. An entry of 0.0.0.0 indicates that the router has a non-BGP route to this network.
AttrKey	Key associated with the route attribute.
Processed *n* prefixes, *n* paths	Number of prefixes and number of paths processed for the table.

Related Commands

Command	Description
set default-afi	Sets the default Address Family Identifier (AFI) for the current session.
set default-safi	Sets the default Subaddress Family Identifier (SAFI) for the current session.

show bgp cidr-only

To display routes with nonnatural network masks, also known as classless interdomain routing (CIDR) routes, use the **show bgp cidr-only** command in EXECEXEC mode mode.

show bgp [{**ipv4** | **vrf**}] **cidr-only** [**standby**]

Syntax Description

ipv4	(Optional) Specifies the IP Version 4 address family.
unicast	(Optional) Specifies the unicast address family.
multicast	(Optional) Specifies the multicast address family.
labeled-unicast	(Optional) Specifies labeled unicast address prefixes.
all	(Optional) For subaddress family, specifies all subaddress families.
tunnel	(Optional) Specifies the tunnel address family.
vrf	(Optional) Specifies VPN routing and forwarding (VRF) instance.
vrf-name	(Optional) Name of a VRF.
all	(Optional) For VRF, specifies all VRFs.
ipv4 { **unicast** | **labeled-unicast** }	(Optional) For VRF, specifies IPv4 unicast or labeled-unicast address families.

Command Default

If no address family or subaddress family is specified, the default address family and subaddress family specified using the **set default-afi** and **set default-safi** commands are used. This command is applicable only for IPv4 prefixes. If the default address family is not IPv4, then the **ipv4** keyword must be used.

Command Modes

EXECEXEC mode

Command History

Release	Modification
Release 3.7.2	This command was introduced.

Usage Guidelines

To use this command, you must be in a user group associated with a task group that includes appropriate task IDs. If the user group assignment is preventing you from using a command, contact your AAA administrator for assistance.

Note The **set default-afi** command is used to specify the default address family for the session, and the **set default-safi** command is used to specify the default subaddress family for the session. See the *System Management Command Reference for Cisco ASR 9000 Series Routers* for detailed information and syntax for the **set default-afi** and **set default-safi** commands. If you do not specify a default address family, the default address family is IPv4. If you do not specify a default subaddress family, the default subaddress family is unicast.

Border Gateway Protocol (BGP) contains a separate routing table for each address family and subaddress family combination that has been configured. The address family and subaddress family options specify the routing table to be examined. If the **all** keyword is specified for subaddress family, all subaddress family routing tables are examined.

The **show bgp cidr-only** command applies only for IPv4 prefixes. If the **ipv4** keyword is not specified and the default address family is not IPv4, the command is not available.

Use the **show bgp cidr-only** command to display CIDR routes. Routes that have their correct class (class A, B, or C) prefix length are not displayed.

Task ID

Task ID	Operations
bgp	read

Examples

The following is sample output from the **show bgp cidr-only** command in EXECEXEC mode mode:

```
Router# show bgp cidr-only

BGP router identifier 172.20.1.1, local AS number 1820
BGP main routing table version 2589
Dampening enabled
BGP scan interval 60 secs
Status codes: s suppressed, d damped, h history, * valid, > best
              i - internal, S stale
Origin codes: i - IGP, e - EGP, ? - incomplete
Network             Next Hop          Metric   LocPrf   Weight   Path
*> 192.0.0.0/8      192.168.72.24     0        1878     ?
*> 192.168.0.0/16   192.168.72.30     0        108      ?
```

This table describes the significant fields shown in the display.

Table 9: show bgp cidr-only Field Descriptions

Field	Description
BGP router identifier	BGP identifier for the local system.
local AS number	Autonomous system number for the local system.
BGP main routing table version	Last version of the BGP database that was installed into the main routing table.
Dampening enabled	Displayed if dampening is enabled for the routes in this BGP routing table.
BGP scan interval	Interval (in seconds) between scans of the BGP table specified by the address family and subaddress family.