

show ip bgp

Syntax To display information about networks for all address families or for a specific address family other than the L2VPN address family and the route-target address family:

```
show ip bgp [ ipv4 unicast | ipv4 multicast | vpnv4 all | vpnv4 vrf vrfName ]  
[ network [ networkMask [ longer-prefixes ] ] ] [ fields fieldOptions ] [ filter ]
```

To display information for networks associated with only the L2VPN address family:

```
show ip bgp { l2vpn all | l2vpn vpls vplsName | l2vpn vpws vpwsName }  
[ site-id siteId block-offset blockOffset ] [ fields fieldOptions ] [ filter ]
```

To display information for networks associated with only the route-target address family:

```
show ip bgp route-target signaling rtfPrefix [ longer-prefixes ]  
[ fields fieldOptions ] [ filter ]
```

Release Information Command introduced before JUNOS Release 7.1.0.
l2vpn and **all** keywords added in JUNOS Release 7.1.0.
vpls keyword and *vplsName* variable added in JUNOS Release 7.1.0.
site-id keyword and *siteId* variable added in JUNOS Release 7.1.0.
block-offset keyword and *blockOffset* variable added in JUNOS Release 7.1.0.
vpws keyword and *vpwsName* variable added in JUNOS Release 8.1.0.
route-target signaling keywords and *rtMemNlri* variable added in JUNOS Release 8.2.0.
rtMemNlri variable replaced by *rtfPrefix* variable in JUNOS Release 9.1.0.

Description Displays filtered information about a specified network, or all networks, in the BGP routing table associated with a specified address family or all address families. Only those fields that you specify are displayed, except that the prefix field is always displayed. Default fields can be set with the **default-fields route** command.

- Options**
- **ipv4 unicast**—Specifies the IPv4 unicast address family and routing table; the default option
 - **ipv4 multicast**—Specifies the IPv4 multicast address family and routing table
 - **vpnv4 all**—Specifies the IPv4 VPN address family and all IPv4 VPN routing and forwarding instances
 - **vpnv4 vrf *vrfName***—Specifies the IPv4 VPN address family and only the IPv4 VPN routing and forwarding instance with the name *vrfName*
 - ***network***—IP address for which the best matching route is displayed; if no network is specified, displays the fields for all networks
 - ***networkMask***—Address mask to be applied to the network address
 - **longer-prefixes**—Displays all routes with a prefix that is equal to or more specific than the specified prefix

- `l2vpn all`—Specifies all VPLS and VPWS instances in the L2VPN address family
- `l2vpn vpls vplsName`—Specifies the VPLS instance with the name *vplsName*
- `l2vpn vpws vpwsName`—Specifies the VPWS instance with the name *vpwsName*
- `siteId`—Numerical identifier for the site; must be an unsigned 16-bit integer greater than zero that is unique across the VPLS domain
- `blockOffset`—Integer in the range 1–65535 that identifies a block offset for which information is displayed
- `route-target signaling`—Specifies the route-target address family
- `rtfPrefix`—Prefix representing the route-target membership NLRI (RT-MEM-NLRI), in the format *asNumber:extendedCommunity/prefixLength* (for example, 320:320:524/36) where:
 - *asNumber*—AS number for origin of route target information, in the range 1–4294967295
 - *extendedCommunity*—Two-part number in the format *number1:number2* that identifies an extended community of VPNs, in the format *number1:number2*, where:
 - *number1*—Autonomous system (AS) number, in the range 1–4294967295, or an IP address
 - *number2*—Unique integer, in the range 1–4294967295; 32 bits if *number1* is a 16-bit AS number; 16 bits if *number1* is an IP address or a 32-bit AS number
 - *prefixLength*—Number that specifies the length of the route prefix, in the range 32–96
- `fields`—Displays only the specified fields; the display order of the fields is hard-coded and not affected by the order in which you enter them
- `fieldOptions`—Fields to be displayed, in the format `all | [afi | aggregator | as-path | atomic-aggregate | best | clusters | communities | extended-communities | imported | intro | in-label | loc-pref | med | next-hop | next-hop-cost | origin | originator-id | out-label | peer | peer-type | rd | safi | stale | unknown-types | weight]*`
 - `all`—All available information; not recommended, because this information for each network does not fit on a single line and is difficult to read
 - `afi`—Address family identifier
 - `aggregator`—AS number and IP address of aggregator
 - `as-path`—AS path through which this route has been advertised
 - `atomic-aggregate`—Whether the atomic aggregate attribute is present
 - `best`—Whether this is the best route for the prefix
 - `clusters`—List of cluster IDs through which the route has been advertised
 - `communities`—Community number associated with the route

- extended-communities—Extended community
- imported—Whether the route was imported
- intro—Introductory information about the state of various BGP attributes; this information is displayed only if you specify this keyword
- in-label—MPLS label for the route; the label received with incoming MPLS frames; typically, but not always, this is the label advertised to MP-BGP peers
- loc-pref—Local preference for the route
- med—Multiexit discriminator for the route
- next-hop—IP address of the next router that is used when forwarding a packet to the destination network
- next-hop-cost—Whether the indirect next hop of the route is unreachable, if not, displays IGP cost to the indirect next hop
- origin—Origin of the route
- originator-id—Router ID of the router in the local AS that originated the route
- out-label—MPLS label for the route; the label sent with outgoing MPLS frames; also the label received from MP-BGP peer; typically, but not always, this is the label received from MP-BGP peers
- peer—IP address of BGP peer from which route was learned
- peer-type—Type of BGP peer: internal, external, or confederation
- rd—Route distinguisher
- safi—Subsequent address family identifier
- stale—Route that has gone stale due to peer restart
- unknown-types—Attribute codes for unknown path attributes
- weight—Weight of the route
- *—Indicates that one or more parameters can be repeated multiple times in a list in the command line
- *filter*—See Filtering show Commands

Mode Privileged Exec, User Exec

Related Topics ■ *Monitoring BGP-Related Settings for L2VPNs and Monitoring Layer 2 NLRI for VPLS Instances in the JUNOS BGP and MPLS Configuration Guide*