

Debugging CLI for Labeled-BGP

Show BGP Peers

Note: This CLI is used to show the BGP peer status.

```
admin@XorPlus> show bgp peers
Peer 1: local 3131::31 remote 1717::17 state ESTABLISHED
```

Show BGP Peer Details

Note: This CLI is used to show BGP peer detail info.

```
admin@XorPlus> show bgp peers detail
Peer 1: local 3131::31 remote 1717::17 state ESTABLISHED
Peer ID: 17.17.17.17
Peer Type: IBGP
Admin State: START
BFD: Disabled
Address family: ipv4-unicast ipv6-unicast ipv6-label-unicast
Options: < Refresh >
Negotiated BGP Version: 4
Peer AS Number: 17
Updates Received: 5, Updates Sent: 0
Messages Received: 514, Messages Sent: 509
Time since last received update: 4994 seconds
Number of transitions to ESTABLISHED: 2
Time since last entering ESTABLISHED state: 13360 seconds
Retry Interval: 120 seconds
Hold Time: 90 seconds, Keep Alive Time: 30 seconds
Configured Hold Time: 90 seconds, Configured Keep Alive Time: 30 seconds
Minimum AS Origination Interval: 0 seconds
Minimum Route Advertisement Interval: 0 seconds
Received prefixes: 1
Accepted prefixes: 1
Active prefixes:
```

Show BGP Routes IPv4/IPv6

Note: This CLI is used to show BGP route table.

```
admin@XorPlus> show bgp routes ipv6
Status Codes: * valid route, > best route
Origin Codes: i IGP, e EGP, ? incomplete

  Prefix                               Nexthop                               Peer                               AS Path
  -----                               -
*> 2001::/64                            1717::17                              17.17.17.17                        i
```

Show BGP Routes IPv4/IPv6 Detail

Note: This CLI is used to show the detailed info of BGP route.

```
admin@XorPlus> show bgp routes ipv6 detail
2001::/64
  From peer: 17.17.17.17
  Route: Winner
  Origin: IGP
  AS Path:
  Nexthop: 1717::17
  Nexthop references: 1
  Local Preference: 100
  Originator ID: 28.28.28.28
  Cluster List: 17.17.17.17
  Age: 1:25:20
```

Show BGP Routes IPv4/IPv6 Label

Note: This CLI is used to show the label of the BGP speaker assigned to the specify BGP route entry.

```
admin@XorPlus> show bgp routes ipv6 label
Status Codes: * valid route, > best route
```

Prefix	Nexthop	In-label/Out-label
*> 2001::/64	1717::17	16/16

Show Route Label

Note: This CLI is used to show the label info of the route table.

```

admin@XorPlus> show route label
IPv4 Routing table: 4 routes
17.17.17.17/32    [static(1)/1]
> to 192.168.5.2 via vlan500/vlan500
  in-label:nolabel out-label:nolabel
31.31.31.31/32    [connected(0)/0]
> via loopback/loopback
  in-label:nolabel out-label:nolabel
192.168.5.0/30    [connected(0)/0]
> via vlan500/vlan500
  in-label:nolabel out-label:nolabel
192.168.7.0/30    [connected(0)/0]
> via vlan700/vlan700
  in-label:nolabel out-label:nolabel

IPv6 Routing table: 8 routes
1717::17/128     [static(1)/1]
> to 5000::2 via vlan500/vlan500
  in-label:nolabel out-label:nolabel
2001::/64        [ibgp(200)/0]
> to 5000::2 via vlan500/vlan500
  in-label:16 out-label:16
3131::31/128     [connected(0)/0]
> via loopback/loopback
  in-label:nolabel out-label:nolabel
5000::/64        [connected(0)/0]
> via vlan500/vlan500
  in-label:nolabel out-label:nolabel
7000::/64        [connected(0)/0]
> via vlan700/vlan700
  in-label:nolabel out-label:nolabel
fe80::/64        [connected(0)/0]
> via loopback/loopback
  in-label:nolabel out-label:nolabel
fe80::/64        [connected(0)/0]
> via vlan500/vlan500
  in-label:nolabel out-label:nolabel
fe80::/64        [connected(0)/0]
> via vlan700/vlan700
  in-label:nolabel out-label:nolabel

```

Show MPLS Forwarding-Table IPv4/IPv6 All

Note: This CLI is used to show the MPLS forwarding table.

```

admin@XorPlus> show mpls forwarding-table ipv6 all
In-label  Out-label  Destination      Outgoing-Interface  Next Hop
-----
16         16         2001::/64        te-1/1/44           5000::2
1000      16         2001::/64        te-1/1/44           5000::2

```

set protocols bgp trace options flag [all/ FSM/configuration/damp/event/keepalive /nexthop-resolution/notification/notify-snmp/open/packet/policy/raw-packet/route-refresh/ timer/update] disable false

Note: This CLI is used to enable the debug switch for BGP.

set protocols mpls traceoptions disable false

Note: This CLI is used to enable mpls debug switch for mpls.