

[show route protocol ripng table inet6 on page 283](#)

[show route protocol static detail on page 283](#)

Output Fields For information about output fields, see the output field tables for the [show route](#) command, the [show route detail](#) command, the [show route extensive](#) command, or the [show route terse](#) command.

Sample Output

show route protocol access

```
user@host> show route protocol access
inet.0: 30380 destinations, 30382 routes (30379 active, 0 holddown, 1 hidden)
+ = Active Route, - = Last Active, * = Both

13.160.0.3/32      *[Access/13] 00:00:09
                  > to 13.160.0.2 via fe-0/0/0.0
13.160.0.4/32      *[Access/13] 00:00:09
                  > to 13.160.0.2 via fe-0/0/0.0
13.160.0.5/32      *[Access/13] 00:00:09
                  > to 13.160.0.2 via fe-0/0/0.0
```

show route protocol access-internal extensive

```
user@host> show route protocol access-internal 13.160.0.19 extensive
inet.0: 100020 destinations, 100022 routes (100019 active, 0 holddown, 1 hidden)
13.160.0.19/32 (1 entry, 1 announced)
TSI:
KRT in-kernel 13.160.0.19/32 -> {13.160.0.2}
    *Access-internal Preference: 12
        Next-hop reference count: 200000
        Next hop: 13.160.0.2 via fe-0/0/0.0, selected
        State: <Active Int>
    Age: 36
        Task: RPD Unix Domain Server./var/run/rpd_serv.local
        Announcement bits (1): 0-KRT
        AS path: I
```

show route protocol arp

```
user@host> show route protocol arp
inet.0: 43 destinations, 43 routes (42 active, 0 holddown, 1 hidden)

inet.3: 3 destinations, 3 routes (3 active, 0 holddown, 0 hidden)

cust1.inet.0: 1033 destinations, 2043 routes (1033 active, 0 holddown, 0 hidden)
+ = Active Route, - = Last Active, * = Both

20.20.1.3/32      [ARP/4294967293] 00:04:35, from 20.20.1.1
                  Unusable
20.20.1.4/32      [ARP/4294967293] 00:04:35, from 20.20.1.1
                  Unusable
20.20.1.5/32      [ARP/4294967293] 00:04:32, from 20.20.1.1
                  Unusable
20.20.1.6/32      [ARP/4294967293] 00:04:34, from 20.20.1.1
                  Unusable
20.20.1.7/32      [ARP/4294967293] 00:04:35, from 20.20.1.1
                  Unusable
20.20.1.8/32      [ARP/4294967293] 00:04:35, from 20.20.1.1
                  Unusable
```

```

20.20.1.9/32      [ARP/4294967293] 00:04:35, from 20.20.1.1
                  Unusable
20.20.1.10/32     [ARP/4294967293] 00:04:35, from 20.20.1.1
                  Unusable
20.20.1.11/32     [ARP/4294967293] 00:04:33, from 20.20.1.1
                  Unusable
20.20.1.12/32     [ARP/4294967293] 00:04:33, from 20.20.1.1
                  Unusable
20.20.1.13/32     [ARP/4294967293] 00:04:33, from 20.20.1.1
                  Unusable
...

```

show route protocol bgp

```

user@host> show route protocol bgp 192.168.64.0/21
inet.0: 335832 destinations, 335833 routes (335383 active, 0 holddown, 450 hidden)
+ = Active Route, - = Last Active, * = Both

192.168.64.0/21    *[BGP/170] 6d 10:41:16, localpref 100, from 192.168.69.71
                   AS path: 10458 14203 2914 4788 4788 I
                   > to 192.168.167.254 via fxp0.0

```

show route protocol bgp detail

```

user@host> show route protocol bgp 66.117.63.0/24 detail
inet.0: 335805 destinations, 335806 routes (335356 active, 0 holddown, 450 hidden)
66.117.63.0/24    (1 entry, 1 announced)
  *BGP           Preference: 170/-101
                  Next hop type: Indirect
                  Next-hop reference count: 1006436
                  Source: 192.168.69.71
                  Next hop type: Router, Next hop index: 324
                  Next hop: 192.168.167.254 via fxp0.0, selected
                  Protocol next hop: 192.168.69.71
                  Indirect next hop: 8e166c0 342
                  State: <Active Ext>
                  Local AS: 69 Peer AS: 10458
                  Age: 6d 10:42:42 Metric2: 0
                  Task: BGP_10458.192.168.69.71+179
                  Announcement bits (3): 0-KRT 2-BGP RT Background 3-Resolve tree
1
  AS path: 10458 14203 2914 4788 4788 I
  Communities: 2914:410 2914:2403 2914:3400
  Accepted
  Localpref: 100
  Router ID: 207.17.136.192

```

show route protocol bgp extensive

```

user@host> show route protocol bgp 192.168.64.0/21 extensive

inet.0: 335827 destinations, 335828 routes (335378 active, 0 holddown, 450 hidden)
192.168.64.0/21 (1 entry, 1 announced)
TSI:
KRT in-kernel 1.9.0.0/16 -> {indirect(342)}
Page 0 idx 1 Type 1 val db31a80
  Nexthop: Self
  AS path: [69] 10458 14203 2914 4788 4788 I
  Communities: 2914:410 2914:2403 2914:3400
Path 1.9.0.0 from 192.168.69.71 Vector len 4. Val: 1
  *BGP           Preference: 170/-101
                  Next hop type: Indirect

```

```

Next-hop reference count: 1006502
Source: 192.168.69.71
Next hop type: Router, Next hop index: 324
Next hop: 192.168.167.254 via fxp0.0, selected
Protocol next hop: 192.168.69.71
Indirect next hop: 8e166c0 342
State: <Active Ext>
Local AS: 69 Peer AS: 10458
Age: 6d 10:44:45 Metric2: 0
Task: BGP_10458.192.168.69.71+179
Announcement bits (3): 0-KRT 2-BGP RT Background 3-Resolve tree
1
AS path: 10458 14203 2914 4788 4788 I
Communities: 2914:410 2914:2403 2914:3400
Accepted
Localpref: 100
Router ID: 207.17.136.192
Indirect next hops: 1
  Protocol next hop: 192.168.69.71
  Indirect next hop: 8e166c0 342
  Indirect path forwarding next hops: 1
    Next hop type: Router
    Next hop: 192.168.167.254 via fxp0.0
  192.168.0.0/16 Originating RIB: inet.0
  Node path count: 1
  Forwarding nexthops: 1
    Nexthop: 192.168.167.254 via fxp0.0

```

show route protocol bgp terse

```
user@host> show route protocol bgp 192.168.64.0/21 terse
```

```
inet.0: 24 destinations, 32 routes (23 active, 0 holddown, 1 hidden)
+ = Active Route, - = Last Active, * = Both
```

A Destination	P Prf	Metric 1	Metric 2	Next hop	AS path
192.168.64.0/21	B 170	100		>100.1.3.2	10023 21 I

show route protocol direct

```
user@host> show route protocol direct
```

```
inet.0: 335843 destinations, 335844 routes (335394 active, 0 holddown, 450 hidden)
+ = Active Route, - = Last Active, * = Both
```

```

8.8.8.0/24      *[Direct/0] 17w0d 10:31:49
                 > via fe-1/3/1.0
10.255.165.1/32 *[Direct/0] 25w4d 04:13:18
                 > via lo0.0
30.30.30.0/24   *[Direct/0] 17w0d 23:06:26
                 > via fe-1/3/2.0
192.168.164.0/22 *[Direct/0] 25w4d 04:13:20
                 > via fxp0.0

```

```
iso.0: 1 destinations, 1 routes (1 active, 0 holddown, 0 hidden)
+ = Active Route, - = Last Active, * = Both
```

```

47.0005.80ff.f800.0000.0108.0001.0102.5516.5001/152
   *[Direct/0] 25w4d 04:13:21
   > via lo0.0

```

```
inet6.0: 2 destinations, 2 routes (2 active, 0 holddown, 0 hidden)
+ = Active Route, - = Last Active, * = Both
```

```
abcd::10:255:165:1/128
    *[Direct/0] 25w4d 04:13:21
    > via lo0.0
fe80::2a0:a5ff:fe12:ad7/128
    *[Direct/0] 25w4d 04:13:21
    > via lo0.0
```

show route protocol frr

```
user@host> show route protocol frr
inet.0: 43 destinations, 43 routes (42 active, 0 holddown, 1 hidden)

inet.3: 3 destinations, 3 routes (3 active, 0 holddown, 0 hidden)

cust1.inet.0: 1033 destinations, 2043 routes (1033 active, 0 holddown, 0 hidden)
+ = Active Route, - = Last Active, * = Both

20.20.1.3/32      *[FRR/200] 00:05:38, from 20.20.1.1
                  > to 20.20.1.3 via ge-4/1/0.0
                  to 10.10.15.1 via ge-0/2/4.0, Push 16, Push 299792(top)
20.20.1.4/32      *[FRR/200] 00:05:38, from 20.20.1.1
                  > to 20.20.1.4 via ge-4/1/0.0
                  to 10.10.15.1 via ge-0/2/4.0, Push 16, Push 299792(top)
20.20.1.5/32      *[FRR/200] 00:05:35, from 20.20.1.1
                  > to 20.20.1.5 via ge-4/1/0.0
                  to 10.10.15.1 via ge-0/2/4.0, Push 16, Push 299792(top)
20.20.1.6/32      *[FRR/200] 00:05:37, from 20.20.1.1
                  > to 20.20.1.6 via ge-4/1/0.0
                  to 10.10.15.1 via ge-0/2/4.0, Push 16, Push 299792(top)
20.20.1.7/32      *[FRR/200] 00:05:38, from 20.20.1.1
                  > to 20.20.1.7 via ge-4/1/0.0
                  to 10.10.15.1 via ge-0/2/4.0, Push 16, Push 299792(top)
20.20.1.8/32      *[FRR/200] 00:05:38, from 20.20.1.1
                  > to 20.20.1.8 via ge-4/1/0.0
                  to 10.10.15.1 via ge-0/2/4.0, Push 16, Push 299792(top)
20.20.1.9/32      *[FRR/200] 00:05:38, from 20.20.1.1
                  > to 20.20.1.9 via ge-4/1/0.0
                  to 10.10.15.1 via ge-0/2/4.0, Push 16, Push 299792(top)
20.20.1.10/32     *[FRR/200] 00:05:38, from 20.20.1.1
...

```

show route protocol l2circuit detail

```
user@host> show route protocol l2circuit detail

mpls.0: 5 destinations, 5 routes (5 active, 0 holddown, 0 hidden)
100000 (1 entry, 1 announced)
    *L2CKT Preference: 7
        Next hop: via ge-2/0/0.0, selected
        Label operation: Pop          Offset: 4
        State: <Active Int>
        Local AS: 99
        Age: 9:52
        Task: Common L2 VC
        Announcement bits (1): 0-KRT
        AS path: I

ge-2/0/0.0 (1 entry, 1 announced)
```

```

*L2CKT Preference: 7
  Next hop: via so-1/1/2.0 weight 1, selected
  Label-switched-path my-lsp
  Label operation: Push 100000, Push 100000(top)[0] Offset: -4
  Protocol next hop: 10.245.255.63
  Push 100000 Offset: -4
    Indirect next hop: 86af0c0 298
  State: <Active Int>
  Local AS: 99
  Age: 9:52
  Task: Common L2 VC
  Announcement bits (2): 0-KRT 1-Common L2 VC
  AS path: I

```

l2circuit.0: 2 destinations, 2 routes (2 active, 0 holddown, 0 hidden)

10.245.255.63:CtrlWord:4:3:Local/96 (1 entry, 1 announced)

```

*L2CKT Preference: 7
  Next hop: via so-1/1/2.0 weight 1, selected
  Label-switched-path my-lsp
  Label operation: Push 100000[0]
  Protocol next hop: 10.245.255.63 Indirect next hop: 86af000 296
  State: <Active Int>
  Local AS: 99
  Age: 10:21
  Task: l2 circuit
  Announcement bits (1): 0-LDP
  AS path: I
  VC Label 100000, MTU 1500, VLAN ID 512

```

show route protocol l2vpn extensive

```
user@host> show route protocol l2vpn extensive
```

inet.0: 14 destinations, 15 routes (13 active, 0 holddown, 1 hidden)

inet.3: 1 destinations, 1 routes (1 active, 0 holddown, 0 hidden)

iso.0: 1 destinations, 1 routes (1 active, 0 holddown, 0 hidden)

mpls.0: 7 destinations, 7 routes (7 active, 0 holddown, 0 hidden)
800001 (1 entry, 1 announced)

TSI:

KRT in-kernel 800001 /36 -> {so-0/0/0.0}

```

*L2VPN Preference: 7
  Next hop: via so-0/0/0.0 weight 49087 balance 97%, selected
  Label operation: Pop Offset: 4
  State: <Active Int>
  Local AS: 69
  Age: 7:48
  Task: Common L2 VC
  Announcement bits (1): 0-KRT
  AS path: I

```

so-0/0/0.0 (1 entry, 1 announced)

TSI:

KRT in-kernel so-0/0/0.0 /16 -> {indirect(288)}

```

*L2VPN Preference: 7
  Next hop: via so-0/0/1.0, selected
  Label operation: Push 800000 Offset: -4
  Protocol next hop: 10.255.14.220

```

```

Push 800000 Offset: -4
Indirect next hop: 85142a0 288
State: <Active Int>
Local AS: 69
Age: 7:48
Task: Common L2 VC
Announcement bits (2): 0-KRT 1-Common L2 VC
AS path: I
Communities: target:69:1 Layer2-info: encaps:PPP,
control flags:2, mtu: 0

```

show route protocol ldp

```

user@host> show route protocol ldp
inet.0: 12 destinations, 13 routes (12 active, 0 holddown, 0 hidden)

inet.3: 2 destinations, 2 routes (2 active, 0 holddown, 0 hidden)
+ = Active Route, - = Last Active, * = Both

192.168.16.1/32    *[LDP/9] 1d 23:03:35, metric 1
                  > via t1-4/0/0.0, Push 100000
192.168.17.1/32    *[LDP/9] 1d 23:03:35, metric 1
                  > via t1-4/0/0.0

private1___.inet.0: 2 destinations, 2 routes (2 active, 0 holddown, 0 hidden)

mpls.0: 6 destinations, 6 routes (6 active, 0 holddown, 0 hidden)
+ = Active Route, - = Last Active, * = Both

100064            *[LDP/9] 1d 23:03:35, metric 1
                  > via t1-4/0/0.0, Pop
100064(S=0)        *[LDP/9] 1d 23:03:35, metric 1
                  > via t1-4/0/0.0, Pop
100080            *[LDP/9] 1d 23:03:35, metric 1
                  > via t1-4/0/0.0, Swap 100000

```

show route protocol ldp extensive

```

user@host> show route protocol ldp extensive
192.168.16.1/32 (1 entry, 1 announced)
  State: <FlashAll>
  *LDP Preference: 9
    Next-hop reference count: 3
    Next hop: via t1-4/0/0.0, selected
    Label operation: Push 100000
    State: <Active Int>
    Local AS: 65500
    Age: 1d 23:03:58 Metric: 1
    Task: LDP
    Announcement bits (2): 0-Resolve tree 1 2-Resolve tree 2
    AS path: I

192.168.17.1/32 (1 entry, 1 announced)
  State: <FlashAll>
  *LDP Preference: 9
    Next-hop reference count: 3
    Next hop: via t1-4/0/0.0, selected
    State: <Active Int>
    Local AS: 65500
    Age: 1d 23:03:58 Metric: 1
    Task: LDP

```

```

Announcement bits (2): 0-Resolve tree 1 2-Resolve tree 2
AS path: I

private1__inet.0: 2 destinations, 2 routes (2 active, 0 holddown, 0 hidden)

mpls.0: 6 destinations, 6 routes (6 active, 0 holddown, 0 hidden)

100064 (1 entry, 1 announced)
TSI:
KRT in-kernel 100064 /36 -> {t1-4/0/0.0}
    *LDP      Preference: 9
              Next-hop reference count: 2
              Next hop: via t1-4/0/0.0, selected
              State: <Active Int>
              Local AS: 65500
              Age: 1d 23:03:58      Metric: 1
              Task: LDP
              Announcement bits (1): 0-KRT
              AS path: I
              Prefixes bound to route: 192.168.17.1/32

100064(S=0) (1 entry, 1 announced)
TSI:
KRT in-kernel 100064 /40 -> {t1-4/0/0.0}
    *LDP      Preference: 9
              Next-hop reference count: 2
              Next hop: via t1-4/0/0.0, selected
              Label operation: Pop
              State: <Active Int>
              Local AS: 65500
              Age: 1d 23:03:58      Metric: 1
              Task: LDP
              Announcement bits (1): 0-KRT
              AS path: I

100080 (1 entry, 1 announced)
TSI:
KRT in-kernel 100080 /36 -> {t1-4/0/0.0}
    *LDP      Preference: 9
              Next-hop reference count: 2
              Next hop: via t1-4/0/0.0, selected
              Label operation: Swap 100000
              State: <Active Int>
              Local AS: 65500
              Age: 1d 23:03:58      Metric: 1
              Task: LDP
              Announcement bits (1): 0-KRT
              AS path: I
              Prefixes bound to route: 192.168.16.1/32

```

show route protocol ospf (Layer 3 VPN)

```

user@host> show route protocol ospf
inet.0: 40 destinations, 40 routes (39 active, 0 holddown, 1 hidden)
+ = Active Route, - = Last Active, * = Both

10.39.1.4/30      *[OSPF/10] 00:05:18, metric 4
                  > via t3-3/2/0.0
10.39.1.8/30      [OSPF/10] 00:05:18, metric 2
                  > via t3-3/2/0.0
10.255.14.171/32 *[OSPF/10] 00:05:18, metric 4

```

```

> via t3-3/2/0.0
10.255.14.179/32  *[OSPF/10] 00:05:18, metric 2
> via t3-3/2/0.0
224.0.0.5/32     *[OSPF/10] 20:25:55, metric 1

VPN-AB.inet.0: 5 destinations, 5 routes (5 active, 0 holddown, 0 hidden)
+ = Active Route, - = Last Active, * = Both

10.39.1.16/30     [OSPF/10] 00:05:43, metric 1
> via so-0/2/2.0
10.255.14.173/32  *[OSPF/10] 00:05:43, metric 1
> via so-0/2/2.0
224.0.0.5/32     *[OSPF/10] 20:26:20, metric 1

```

show route protocol ospf detail

```

user@host> show route protocol ospf detail
VPN-AB.inet.0: 5 destinations, 5 routes (5 active, 0 holddown, 0 hidden)
+ = Active Route, - = Last Active, * = Both

10.39.1.16/30 (2 entries, 0 announced)
  OSPF   Preference: 10
         Nexthop: via so-0/2/2.0, selected
         State: <Int>
         Inactive reason: Route Preference
         Age: 6:25      Metric: 1
         Area: 0.0.0.0
         Task: VPN-AB-OSPF
         AS path: I
         Communities: Route-Type:0.0.0.0:1:0

...

```

show route protocol rip

```

user@host> show route protocol rip
inet.0: 26 destinations, 27 routes (25 active, 0 holddown, 1 hidden)
+ = Active Route, - = Last Active, * = Both

VPN-AB.inet.0: 5 destinations, 5 routes (5 active, 0 holddown, 0 hidden)
+ = Active Route, - = Last Active, * = Both
10.255.14.177/32  *[RIP/100] 20:24:34, metric 2
> to 10.39.1.22 via t3-0/2/2.0
224.0.0.9/32     *[RIP/100] 00:03:59, metric 1

```

show route protocol rip detail

```

user@host> show route protocol rip detail
inet.0: 26 destinations, 27 routes (25 active, 0 holddown, 1 hidden)
+ = Active Route, - = Last Active, * = Both

VPN-AB.inet.0: 5 destinations, 5 routes (5 active, 0 holddown, 0 hidden)
+ = Active Route, - = Last Active, * = Both
10.255.14.177/32 (1 entry, 1 announced)
  *RIP   Preference: 100
         Nexthop: 10.39.1.22 via t3-0/2/2.0, selected
         State: <Active Int>
         Age: 20:25:02  Metric: 2
         Task: VPN-AB-RIPv2
         Announcement bits (2): 0-KRT 2-BGP.0.0.0.0+179
         AS path: I
         Route learned from 10.39.1.22 expires in 96 seconds

```

show route protocol ripng table inet6

```

user@host> show route protocol ripng table inet6
inet6.0: 4215 destinations, 4215 routes (4214 active, 0 holddown, 1 hidden)
+ = Active Route, - = Last Active, * = Both

1111::1/128      *[RIPng/100] 02:13:33, metric 2
                  > to fe80::2a0:a5ff:fe3d:56 via t3-0/2/0.0
1111::2/128      *[RIPng/100] 02:13:33, metric 2
                  > to fe80::2a0:a5ff:fe3d:56 via t3-0/2/0.0
1111::3/128      *[RIPng/100] 02:13:33, metric 2
                  > to fe80::2a0:a5ff:fe3d:56 via t3-0/2/0.0
1111::4/128      *[RIPng/100] 02:13:33, metric 2
                  > to fe80::2a0:a5ff:fe3d:56 via t3-0/2/0.0
1111::5/128      *[RIPng/100] 02:13:33, metric 2
                  > to fe80::2a0:a5ff:fe3d:56 via t3-0/2/0.0
1111::6/128      *[RIPng/100] 02:13:33, metric 2
                  > to fe80::2a0:a5ff:fe3d:56 via t3-0/2/0.0

```

show route protocol static detail

```

user@host> show route protocol static detail
inet.0: 3 destinations, 3 routes (3 active, 0 holddown, 0 hidden)
10.5.0.0/16 (1 entry, 1 announced)
    *Static Preference: 5
        Next hop type: Router, Next hop index: 324
        Address: 0x9274010
        Next-hop reference count: 27
        Next hop: 192.168.187.126 via fxp0.0, selected
        Session Id: 0x0
        State: <Active NoReadvrt Int Ext>
        Age: 7w3d 21:24:25
        Validation State: unverified
        Task: RT
        Announcement bits (1): 0-KRT
        AS path: I

10.10.0.0/16 (1 entry, 1 announced)
    *Static Preference: 5
        Next hop type: Router, Next hop index: 324
        Address: 0x9274010
        Next-hop reference count: 27
        Next hop: 192.168.187.126 via fxp0.0, selected
        Session Id: 0x0
        State: <Active NoReadvrt Int Ext>
        Age: 7w3d 21:24:25
        Validation State: unverified
        Task: RT
        Announcement bits (1): 0-KRT
        AS path: I

10.13.10.0/23 (1 entry, 1 announced)
    *Static Preference: 5
        Next hop type: Router, Next hop index: 324
        Address: 0x9274010
        Next-hop reference count: 27
        Next hop: 192.168.187.126 via fxp0.0, selected
        Session Id: 0x0
        State: <Active NoReadvrt Int Ext>
        Age: 7w3d 21:24:25
        Validation State: unverified

```

Task: RT
Announcement bits (1): 0-KRT
AS path: I

show route range

List of Syntax	Syntax on page 285 Syntax (EX Series Switches) on page 285
Syntax	<pre>show route range <brief detail extensive terse> <destination-prefix> <logical-system (all logical-system-name)></pre>
Syntax (EX Series Switches)	<pre>show route range <brief detail extensive terse> <destination-prefix></pre>
Release Information	<p>Command introduced before Junos OS Release 7.4.</p> <p>Command introduced in Junos OS Release 9.0 for EX Series switches.</p>
Description	Display routing table entries using a prefix range.
Options	<p>none—Display standard information about all routing table entries using a prefix range.</p> <p>brief detail extensive terse—(Optional) Display the specified level of output. If you do not specify a level of output, the system defaults to brief.</p> <p>destination-prefix—Destination and prefix mask for the range.</p> <p>logical-system (all logical-system-name)—(Optional) Perform this operation on all logical systems or on a particular logical system.</p>
Required Privilege Level	view
List of Sample Output	show route range on page 285 show route range destination-prefix on page 286 show route range detail on page 286 show route range extensive on page 287 show route range terse on page 288
Output Fields	For information about output fields, see the output field tables for the show route command, the show route detail command, the show route extensive command, or the show route terse command.

Sample Output

show route range

```
user@host> show route range

inet.0: 11 destinations, 11 routes (10 active, 0 holddown, 1 hidden)
+ = Active Route, - = Last Active, * = Both

10.10.0.0/16      *[Static/5] 00:30:01
                  > to 192.168.71.254 via fxp0.0
10.209.0.0/16    *[Static/5] 00:30:01
```

```

10.255.71.14/32      > to 192.168.71.254 via fxp0.0
                    *[Direct/0] 00:30:01
                    > via lo0.0
172.16.0.0/12       *[Static/5] 00:30:01
                    > to 192.168.71.254 via fxp0.0
192.168.0.0/16      *[Static/5] 00:30:01
                    > to 192.168.71.254 via fxp0.0
192.168.64.0/21     *[Direct/0] 00:30:01
                    > via fxp0.0
192.168.71.14/32    *[Local/0] 00:30:01
                    Local via fxp0.0
192.168.102.0/23    *[Static/5] 00:30:01
                    > to 192.168.71.254 via fxp0.0
...

```

show route range destination-prefix

```

user@host> show route range 192.168.0.0/16

inet.0: 11 destinations, 11 routes (10 active, 0 holddown, 1 hidden)
+ = Active Route, - = Last Active, * = Both

192.168.0.0/16      *[Static/5] 00:31:14
                    > to 192.168.71.254 via fxp0.0
192.168.64.0/21     *[Direct/0] 00:31:14
                    > via fxp0.0
192.168.71.14/32    *[Local/0] 00:31:14
                    Local via fxp0.0
192.168.102.0/23    *[Static/5] 00:31:14
                    > to 192.168.71.254 via fxp0.0

```

show route range detail

```

user@host> show route range detail

inet.0: 11 destinations, 11 routes (10 active, 0 holddown, 1 hidden)
10.10.0.0/16 (1 entry, 1 announced)
  *Static Preference: 5
    Next-hop reference count: 22
    Next hop: 192.168.71.254 via fxp0.0, selected
    State: <Active NoReadvrt Int Ext>
    Age: 30:05
    Task: RT
    Announcement bits (1): 0-KRT
    AS path: I

10.209.0.0/16 (1 entry, 1 announced)
  *Static Preference: 5
    Next-hop reference count: 22
    Next hop: 192.168.71.254 via fxp0.0, selected
    State: <Active NoReadvrt Int Ext>
    Age: 30:05
    Task: RT
    Announcement bits (1): 0-KRT
    AS path: I

10.255.71.14/32 (1 entry, 0 announced)
  *Direct Preference: 0
    Next hop type: Interface
    Next-hop reference count: 1
    Next hop: via lo0.0, selected

```

```

State: <Active Int>
Age: 30:05
Task: IF
AS path: I

172.16.0.0/12 (1 entry, 1 announced)
  *Static Preference: 5
    Next-hop reference count: 22
    Next hop: 192.168.71.254 via fxp0.0, selected
    State: <Active NoReadvrt Int Ext>
    Age: 30:05
    Task: RT
    Announcement bits (1): 0-KRT
    AS path: I

...

```

show route range extensive

```

user@host> show route range extensive

inet.0: 11 destinations, 11 routes (10 active, 0 holddown, 1 hidden)
10.10.0.0/16 (1 entry, 1 announced)
TSI:
KRT in-kernel 10.10.0.0/16 -> {192.168.71.254}
  *Static Preference: 5
    Next-hop reference count: 22
    Next hop: 192.168.71.254 via fxp0.0, selected
    State: <Active NoReadvrt Int Ext>
    Age: 30:17
    Task: RT
    Announcement bits (1): 0-KRT
    AS path: I

10.209.0.0/16 (1 entry, 1 announced)
TSI:
KRT in-kernel 10.209.0.0/16 -> {192.168.71.254}
  *Static Preference: 5
    Next-hop reference count: 22
    Next hop: 192.168.71.254 via fxp0.0, selected
    State: <Active NoReadvrt Int Ext>
    Age: 30:17
    Task: RT
    Announcement bits (1): 0-KRT
    AS path: I

10.255.71.14/32 (1 entry, 0 announced)
  *Direct Preference: 0
    Next hop type: Interface
    Next-hop reference count: 1
    Next hop: via lo0.0, selected
    State: <Active Int>
    Age: 30:17
    Task: IF
    AS path: I

172.16.0.0/12 (1 entry, 1 announced)
TSI:
KRT in-kernel 172.16.0.0/12 -> {192.168.71.254}
  *Static Preference: 5
    Next-hop reference count: 22

```

```

Next hop: 192.168.71.254 via fxp0.0, selected
State: <Active NoReadvrt Int Ext>
Age: 30:17
Task: RT
Announcement bits (1): 0-KRT
AS path: I

```

```
...
```

show route range terse

```
user@host> show route range terse
```

```
inet.0: 11 destinations, 11 routes (10 active, 0 holddown, 1 hidden)
+ = Active Route, - = Last Active, * = Both
```

A	Destination	P	Prf	Metric 1	Metric 2	Next hop	AS path
*	10.10.0.0/16	S	5			>192.168.71.254	
*	10.209.0.0/16	S	5			>192.168.71.254	
*	10.255.71.14/32	D	0			>100.0	
*	172.16.0.0/12	S	5			>192.168.71.254	
*	192.168.0.0/16	S	5			>192.168.71.254	
*	192.168.64.0/21	D	0			>fxp0.0	
*	192.168.71.14/32	L	0			Local	
*	192.168.102.0/23	S	5			>192.168.71.254	
*	207.17.136.0/24	S	5			>192.168.71.254	
*	207.17.136.192/32	S	5			>192.168.71.254	

```
__juniper_private1__inet.0: 2 destinations, 3 routes (2 active, 0 holddown, 0 hidden)
+ = Active Route, - = Last Active, * = Both
```

A	Destination	P	Prf	Metric 1	Metric 2	Next hop	AS path
*	10.0.0.0/8	D	0			>fxp2.0	
		D	0			>fxp1.0	
*	10.0.0.4/32	L	0			Local	

```
iso.0: 1 destinations, 1 routes (1 active, 0 holddown, 0 hidden)
+ = Active Route, - = Last Active, * = Both
```

A	Destination	P	Prf	Metric 1	Metric 2	Next hop	AS path
	47.0005.80ff.f800.0000.0108.0001.0102.5507.1014/152						
*		D	0			>100.0	

```
inet6.0: 2 destinations, 2 routes (2 active, 0 holddown, 0 hidden)
+ = Active Route, - = Last Active, * = Both
```

A	Destination	P	Prf	Metric 1	Metric 2	Next hop	AS path
	abcd::10:255:71:14/128						
*		D	0			>100.0	
	fe80::280:42ff:fe11:226f/128						
*		D	0			>100.0	

```
__juniper_private1__inet6.0: 1 destinations, 1 routes (1 active, 0 holddown, 0 hidden)
+ = Active Route, - = Last Active, * = Both
```

A	Destination	P	Prf	Metric 1	Metric 2	Next hop	AS path
	fe80::280:42ff:fe11:226f/128						
*		D	0			>100.16385	

show route receive-protocol

List of Syntax	Syntax on page 289 Syntax (EX Series Switches) on page 289
Syntax	show route receive-protocol <i>protocol neighbor-address</i> <brief detail extensive terse> <logical-system (all <i>logical-system-name</i>)>
Syntax (EX Series Switches)	show route receive-protocol <i>protocol neighbor-address</i> <brief detail extensive terse>
Release Information	Command introduced before Junos OS Release 7.4. Command introduced in Junos OS Release 9.0 for EX Series switches.
Description	Display the routing information as it was received through a particular neighbor using a particular dynamic routing protocol.
Options	<p>brief detail extensive terse—(Optional) Display the specified level of output.</p> <p>logical-system (all <i>logical-system-name</i>)—(Optional) Perform this operation on all logical systems or on a particular logical system.</p> <p><i>protocol neighbor-address</i>—Protocol transmitting the route (bgp, dvmrp, msdp, pim, rip, or ripng) and address of the neighboring router from which the route entry was received.</p>
Additional Information	The output displays the selected routes and the attributes with which they were received, but does not show the effects of import policy on the routing attributes.
Required Privilege Level	view
List of Sample Output	show route receive-protocol bgp on page 292 show route receive-protocol bgp extensive on page 292 show route receive-protocol bgp table extensive on page 292 show route receive-protocol bgp logical-system extensive on page 293 show route receive-protocol bgp detail (Layer 2 VPN) on page 294 show route receive-protocol bgp extensive (Layer 2 VPN) on page 294 show route receive-protocol bgp (Layer 3 VPN) on page 295 show route receive-protocol bgp detail (Layer 3 VPN) on page 295 show route receive-protocol bgp detail (Long-Lived Graceful Restart) on page 296 show route receive-protocol bgp extensive (Layer 3 VPN) on page 296
Output Fields	Table 24 on page 290 describes the output fields for the show route receive-protocol command. Output fields are listed in the approximate order in which they appear.

Table 24: show route receive-protocol Output Fields

Field Name	Field Description	Level of Output
<i>routing-table-name</i>	Name of the routing table—for example, inet.0.	All levels
<i>number destinations</i>	Number of destinations for which there are routes in the routing table.	All levels
<i>number routes</i>	Number of routes in the routing table and total number of routes in the following states: <ul style="list-style-type: none"> • active • holdddown (routes that are in pending state before being declared inactive) • hidden (routes that are not used because of a routing policy) 	All levels
Prefix	Destination prefix.	none brief
MED	Multiple exit discriminator value included in the route.	none brief
<i>destination-prefix</i> (entry, announced)	Destination prefix. The entry value is the number of routes for this destination, and the announced value is the number of routes being announced for this destination.	detail extensive
Accepted LongLivedStale	The LongLivedStale flag indicates that the route was marked LLGR-stale by this router, as part of the operation of LLGR receiver mode. Either this flag or the LongLivedStaleImport flag may be displayed for a route. Neither of these flags are displayed at the same time as the Stale (ordinary GR stale) flag.	detail extensive
Accepted LongLivedStaleImport	The LongLivedStaleImport flag indicates that the route was marked LLGR-stale when it was received from a peer, or by import policy. Either this flag or the LongLivedStale flag may be displayed for a route. Neither of these flags are displayed at the same time as the Stale (ordinary GR stale) flag. Accept all received BGP long-lived graceful restart (LLGR) and LLGR stale routes learned from configured neighbors and import into the inet.0 routing table	detail extensive
ImportAccepted LongLivedStaleImport	Accept all received BGP long-lived graceful restart (LLGR) and LLGR stale routes learned from configured neighbors and imported into the inet.0 routing table The LongLivedStaleImport flag indicates that the route was marked LLGR-stale when it was received from a peer, or by import policy.	detail extensive
Route Distinguisher	64-bit prefix added to IP subnets to make them unique.	detail extensive
Label-Base, range	First label in a block of labels and label block size. A remote PE routing device uses this first label when sending traffic toward the advertising PE routing device.	detail extensive
VPN Label	Virtual private network (VPN) label. Packets are sent between CE and PE routing devices by advertising VPN labels. VPN labels transit over either an RSVP or an LDP label-switched path (LSP) tunnel.	detail extensive

Table 24: show route receive-protocol Output Fields (*continued*)

Field Name	Field Description	Level of Output
Next hop	Next hop to the destination. An angle bracket (>) indicates that the route is the selected route.	All levels
Localpref or Lclpref	Local preference value included in the route.	All levels
AS path	<p>Autonomous system (AS) path through which the route was learned. The letters at the end of the AS path indicate the path origin, providing an indication of the state of the route at the point at which the AS path originated:</p> <ul style="list-style-type: none"> • I—IGP. • E—EGP. • ?—Incomplete; typically, the AS path was aggregated. <p>When AS path numbers are included in the route, the format is as follows:</p> <ul style="list-style-type: none"> • []—Brackets enclose the number that precedes the AS path. This number represents the number of ASs present in the AS path, when calculated as defined in RFC 4271. This value is used the AS-path merge process, as defined in RFC 4893. • []—If more than one AS number is configured on the router, or if AS path prepending is configured, brackets enclose the local AS number associated with the AS path. • { }—Braces enclose AS sets, which are groups of AS numbers in which the order does not matter. A set commonly results from route aggregation. The numbers in each AS set are displayed in ascending order. • ()—Parentheses enclose a confederation. • ([])—Parentheses and brackets enclose a confederation set. <p>NOTE: In Junos OS Release 10.3 and later, the AS path field displays an unrecognized attribute and associated hexadecimal value if BGP receives attribute 128 (attribute set) and you have not configured an independent domain in any routing instance.</p>	All levels
Cluster list	(For route reflected output only) Cluster ID sent by the route reflector.	detail extensive
Originator ID	(For route reflected output only) Address of routing device that originally sent the route to the route reflector.	detail extensive
Communities	Community path attribute for the route. See the Output Field table in the show route detail command for all possible values for this field.	detail extensive
AIGP	Accumulated interior gateway protocol (AIGP) BGP attribute.	detail extensive
Attrset AS	Number, local preference, and path of the AS that originated the route. These values are stored in the Attrset attribute at the originating routing device.	detail extensive
Layer2-info: encaps	Layer 2 encapsulation (for example, VPLS).	detail extensive
control flags	Control flags: none or Site Down .	detail extensive

Table 24: show route receive-protocol Output Fields (*continued*)

Field Name	Field Description	Level of Output
mtu	Maximum transmission unit (MTU) of the Layer 2 circuit.	detail extensive

Sample Output

show route receive-protocol bgp

```

user@host> show route receive-protocol bgp 10.255.245.215

inet.0: 28 destinations, 33 routes (27 active, 0 holddown, 1 hidden)
Prefix          Next hop          MED      Lclpref  AS path
10.22.1.0/24     10.255.245.215    0        100      I
10.22.2.0/24     10.255.245.215    0        100      I

```

show route receive-protocol bgp extensive

```

user@host> show route receive-protocol bgp 10.255.245.63 extensive
inet.0: 244 destinations, 244 routes (243 active, 0 holddown, 1 hidden)
Prefix          Next hop          MED      Lclpref  AS path
1.1.1.0/24 (1 entry, 1 announced)
  Next hop: 10.0.50.3
  Localpref: 100
  AS path: I <Originator>
  Cluster list: 10.2.3.1
  Originator ID: 10.255.245.45
165.3.0.0/16 (1 entry, 1 announced)
  Next hop: 111.222.5.254
  Localpref: 100
  AS path: I <Originator>
  Cluster list: 10.2.3.1
  Originator ID: 10.255.245.68
165.4.0.0/16 (1 entry, 1 announced)
  Next hop: 111.222.5.254
  Localpref: 100
  AS path: I <Originator>
  Cluster list: 10.2.3.1
  Originator ID: 10.255.245.45
195.1.2.0/24 (1 entry, 1 announced)
  Next hop: 111.222.5.254
  Localpref: 100
  AS path: I <Originator>
  Cluster list: 10.2.3.1
  Originator ID: 10.255.245.68
inet.2: 63 destinations, 63 routes (63 active, 0 holddown, 0 hidden)
Prefix          Next hop          MED      Lclpref  AS path
inet.3: 10 destinations, 10 routes (10 active, 0 holddown, 0 hidden)
Prefix          Next hop          MED      Lclpref  AS path
iso.0: 1 destinations, 1 routes (1 active, 0 holddown, 0 hidden)
Prefix          Next hop          MED      Lclpref  AS path
mpls.0: 48 destinations, 48 routes (48 active, 0 holddown, 0 hidden)

```

show route receive-protocol bgp table extensive

```

user@host> show route receive-protocol bgp 207.17.136.192 table inet.0 66.117.68.0/24 extensive
inet.0: 227315 destinations, 227316 routes (227302 active, 0 holddown, 13 hidden)
* 66.117.63.0/24 (1 entry, 1 announced)
  Nexthop: 207.17.136.29

```

```

Localpref: 100
AS path: AS2 PA[6]: 14203 2914 3356 29748 33437 AS_TRANS
AS path: AS4 PA[2]: 33437 393219
AS path: Merged[6]: 14203 2914 3356 29748 33437 393219 I
Communities: 2914:420

```

show route receive-protocol bgp logical-system extensive

```

user@host> show route receive-protocol bgp 10.0.0.9 logical-system PE4 extensive
inet.0: 12 destinations, 13 routes (12 active, 0 holddown, 0 hidden)
* 10.0.0.0/30 (1 entry, 1 announced)
    Accepted
    Route Label: 3
    Nexthop: 10.0.0.9
    AS path: 13979 I

* 10.0.0.4/30 (1 entry, 1 announced)
    Accepted
    Route Label: 3
    Nexthop: 10.0.0.9
    AS path: 13979 I

10.0.0.8/30 (2 entries, 1 announced)
    Accepted
    Route Label: 3
    Nexthop: 10.0.0.9
    AS path: 13979 I

* 10.9.9.1/32 (1 entry, 1 announced)
    Accepted
    Route Label: 3
    Nexthop: 10.0.0.9
    AS path: 13979 I

* 10.100.1.1/32 (1 entry, 1 announced)
    Accepted
    Route Label: 3
    Nexthop: 10.0.0.9
    AS path: 13979 I

* 44.0.0.0/24 (1 entry, 1 announced)
    Accepted
    Route Label: 300096
    Nexthop: 10.0.0.9
    AS path: 13979 I
    AIGP: 203

* 55.0.0.0/24 (1 entry, 1 announced)
    Accepted
    Route Label: 300112
    Nexthop: 10.0.0.9
    AS path: 13979 7018 I
    AIGP: 25

* 66.0.0.0/24 (1 entry, 1 announced)
    Accepted
    Route Label: 300144
    Nexthop: 10.0.0.9
    AS path: 13979 7018 I

* 99.0.0.0/24 (1 entry, 1 announced)

```

```

Accepted
Route Label: 300160
Nexthop: 10.0.0.9
AS path: 13979 7018 I

```

show route receive-protocol bgp detail (Layer 2 VPN)

```

user@host> show route receive-protocol bgp 10.255.14.171 detail
inet.0: 68 destinations, 68 routes (67 active, 0 holddown, 1 hidden)
Prefix          Nexthop          MED    Lclpref AS path
inet.3: 4 destinations, 4 routes (4 active, 0 holddown, 0 hidden)
Prefix          Nexthop          MED    Lclpref AS path
iso.0: 1 destinations, 1 routes (1 active, 0 holddown, 0 hidden)
Prefix          Nexthop          MED    Lclpref AS path
mpls.0: 10 destinations, 10 routes (10 active, 0 holddown, 0 hidden)
Prefix          Nexthop          MED    Lclpref AS path
frame-vpn.l2vpn.0: 2 destinations, 2 routes (2 active, 0 holddown, 0
hidden)
Prefix          Nexthop          MED    Lclpref AS path
10.255.245.35:1:5:1/96 (1 entry, 1 announced)
  Route Distinguisher: 10.255.245.35:1
  Label-base : 800000, range : 4, status-vector : 0x0
  Nexthop: 10.255.245.35
  Localpref: 100
  AS path: I
  Communities: target:65299:100 Layer2-info: encaps:FRAME RELAY,
  control flags: 0, mtu: 0
bgp.l2vpn.0: 1 destinations, 1 routes (1 active, 0 holddown, 0 hidden)
Prefix          Nexthop          MED    Lclpref AS path
10.255.245.35:1:5:1/96 (1 entry, 0 announced)
  Route Distinguisher: 10.255.245.35:1
  Label-base : 800000, range : 4, status-vector : 0x0
  Nexthop: 10.255.245.35
  Localpref: 100
  AS path: I
  Communities: target:65299:100 Layer2-info: encaps:FRAME RELAY,
  control flags: 0, mtu: 0

```

show route receive-protocol bgp extensive (Layer 2 VPN)

```

user@host> show route receive-protocol bgp 10.255.14.171 extensive
inet.0: 68 destinations, 68 routes (67 active, 0 holddown, 1 hidden)
Prefix          Nexthop          MED    Lclpref AS path
inet.3: 4 destinations, 4 routes (4 active, 0 holddown, 0 hidden)
Prefix          Nexthop          MED    Lclpref AS path
iso.0: 1 destinations, 1 routes (1 active, 0 holddown, 0 hidden)
Prefix          Nexthop          MED    Lclpref AS path
mpls.0: 10 destinations, 10 routes (10 active, 0 holddown, 0 hidden)
Prefix          Nexthop          MED    Lclpref AS path
frame-vpn.l2vpn.0: 2 destinations, 2 routes (2 active, 0 holddown, 0 hidden)
Prefix          Nexthop          MED    Lclpref AS path
10.255.245.35:1:5:1/96 (1 entry, 1 announced)
  Route Distinguisher: 10.255.245.35:1
  Label-base : 800000, range : 4, status-vector : 0x0
  Nexthop: 10.255.245.35
  Localpref: 100
  AS path: I
  Communities: target:65299:100 Layer2-info: encaps:FRAME RELAY,
  control flags: 0, mtu: 0
bgp.l2vpn.0: 1 destinations, 1 routes (1 active, 0 holddown, 0 hidden)
Prefix          Nexthop          MED    Lclpref AS path

```

```

10.255.245.35:1:5:1/96 (1 entry, 0 announced)
  Route Distinguisher: 10.255.245.35:1
  Label-base : 800000, range : 4, status-vector : 0x0
  Nexthop: 10.255.245.35
  Localpref: 100
  AS path: I
  Communities: target:65299:100 Layer2-info: encaps:FRAME RELAY,
  control flags:0, mtu: 0

```

show route receive-protocol bgp (Layer 3 VPN)

```

user@host> show route receive-protocol bgp 10.255.14.171
inet.0: 33 destinations, 33 routes (32 active, 0 holddown, 1 hidden)
Prefix          Nexthop          MED    Lclpref AS path
inet.3: 2 destinations, 2 routes (2 active, 0 holddown, 0 hidden)
Prefix          Nexthop          MED    Lclpref AS path
VPN-A.inet.0: 6 destinations, 6 routes (6 active, 0 holddown, 0 hidden)
Prefix          Nexthop          MED    Lclpref AS path
10.255.14.175/32 10.255.14.171          100 2 I
10.255.14.179/32 10.255.14.171          2    100 I
VPN-B.inet.0: 6 destinations, 6 routes (6 active, 0 holddown, 0 hidden)
Prefix          Nexthop          MED    Lclpref AS path
10.255.14.175/32 10.255.14.171          100 2 I
10.255.14.177/32 10.255.14.171          100 I
iso.0: 1 destinations, 1 routes (1 active, 0 holddown, 0 hidden)
Prefix          Nexthop          MED    Lclpref AS path
mpls.0: 9 destinations, 9 routes (9 active, 0 holddown, 0 hidden)
Prefix          Nexthop          MED    Lclpref AS path
bgp.l3vpn.0: 3 destinations, 3 routes (3 active, 0 holddown, 0 hidden)
Prefix          Nexthop          MED    Lclpref AS path
10.255.14.171:300:10.255.14.177/32
                  10.255.14.171          100 I
10.255.14.171:100:10.255.14.179/32
                  10.255.14.171          2    100 I
10.255.14.171:200:10.255.14.175/32
                  10.255.14.171          100 2 I

```

show route receive-protocol bgp detail (Layer 3 VPN)

```

user@host> show route receive-protocol bgp 10.255.14.174 detail
inet.0: 16 destinations, 17 routes (15 active, 0 holddown, 1 hidden)
inet.3: 2 destinations, 2 routes (2 active, 0 holddown, 0 hidden)
vpna.inet.0: 5 destinations, 5 routes (5 active, 0 holddown, 0 hidden)
* 10.49.0.0/30 (1 entry, 1 announced)
  Route Distinguisher: 10.255.14.176:2
  VPN Label: 101264
  Nexthop: 10.255.14.174
  Localpref: 100
  AS path: I
  Communities: target:200:100
  AttrSet AS: 100
    Localpref: 100
    AS path: I
* 10.255.14.172/32 (1 entry, 1 announced)
  Route Distinguisher: 10.255.14.176:2
  VPN Label: 101280
  Nexthop: 10.255.14.174
  Localpref: 100
  AS path: I
  Communities: target:200:100
  AttrSet AS: 100

```

```

        Localpref: 100
        AS path: I
iso.0: 1 destinations, 1 routes (1 active, 0 holddown, 0 hidden)
mpls.0: 5 destinations, 5 routes (5 active, 0 holddown, 0 hidden)
bgp.l3vpn.0: 2 destinations, 2 routes (2 active, 0 holddown, 0 hidden)
* 10.255.14.174:2:10.49.0.0/30 (1 entry, 0 announced)
    Route Distinguisher: 10.255.14.174:2
    VPN Label: 101264
    Nexthop: 10.255.14.174
    Localpref: 100
    AS path: I
    Communities: target:200:100
    AttrSet AS: 100
        Localpref: 100
        AS path: I
* 10.255.14.174:2:10.255.14.172/32 (1 entry, 0 announced)
    Route Distinguisher: 10.255.14.174:2
    VPN Label: 101280
    Nexthop: 10.255.14.174
    Localpref: 100
    AS path: I
    Communities: target:200:100
    AttrSet AS: 100
        Localpref: 100
        AS path: I
inet6.0: 2 destinations, 2 routes (2 active, 0 holddown, 0 hidden)

```

show route receive-protocol bgp detail (Long-Lived Graceful Restart)

```

user@host> show route receive-protocol bgp 10.4.12.11 detail

bgp.l2vpn.0: 38 destinations, 39 routes (37 active, 0 holddown, 1 hidden)
* 1.1.1.4:100:1.1.1.4/96 AD (1 entry, 1 announced)
    Accepted LongLivedStale LongLivedStaleImport
    Nexthop: 10.4.12.11
    Localpref: 100
    AS path: I

```

show route receive-protocol bgp extensive (Layer 3 VPN)

```

user@host> show route receive-protocol bgp 10.255.245.63 extensive
inet.0: 244 destinations, 244 routes (243 active, 0 holddown, 1 hidden)
  Prefix                Nexthop                MED      Lclpref AS path
  1.1.1.0/24 (1 entry, 1 announced)
    Nexthop: 10.0.50.3
    Localpref: 100
    AS path: I <Originator>
    Cluster list: 10.2.3.1
    Originator ID: 10.255.245.45
  165.3.0.0/16 (1 entry, 1 announced)
    Nexthop: 111.222.5.254
    Localpref: 100
    AS path: I <Originator>
    Cluster list: 10.2.3.1
    Originator ID: 10.255.245.68
  165.4.0.0/16 (1 entry, 1 announced)
    Nexthop: 111.222.5.254
    Localpref: 100
    AS path: I <Originator>
    Cluster list: 10.2.3.1
    Originator ID: 10.255.245.45

```

```
195.1.2.0/24 (1 entry, 1 announced)
  Nexthop: 111.222.5.254
  Localpref: 100
  AS path: I <Originator>
  Cluster list: 10.2.3.1
  Originator ID: 10.255.245.68
inet.2: 63 destinations, 63 routes (63 active, 0 holddown, 0 hidden)
Prefix          Nexthop          MED    Lclpref AS path
inet.3: 10 destinations, 10 routes (10 active, 0 holddown, 0 hidden)
Prefix          Nexthop          MED    Lclpref AS path
iso.0: 1 destinations, 1 routes (1 active, 0 holddown, 0 hidden)
Prefix          Nexthop          MED    Lclpref AS path
mpls.0: 48 destinations, 48 routes (48 active, 0 holddown, 0 hidden)
```

show route resolution

List of Syntax	Syntax on page 298 Syntax (EX Series Switches) on page 298
Syntax	<pre>show route resolution <brief detail extensive summary> <index <i>index</i>> <logical-system (all <i>logical-system-name</i>)> <prefix> <table <i>routing-table-name</i>> <unresolved></pre>
Syntax (EX Series Switches)	<pre>show route resolution <brief detail extensive summary> <index <i>index</i>> <prefix> <table <i>routing-table-name</i>> <unresolved></pre>
Release Information	Command introduced before Junos OS Release 7.4. Command introduced in Junos OS Release 9.0 for EX Series switches.
Description	Display the entries in the next-hop resolution database. This database provides for recursive resolution of next hops through other prefixes in the routing table.
Options	<p>none—Display standard information about all entries in the next-hop resolution database.</p> <p>brief detail extensive summary—(Optional) Display the specified level of output.</p> <p>index <i>index</i>—(Optional) Show the index of the resolution tree.</p> <p>logical-system (all <i>logical-system-name</i>)—(Optional) Perform this operation on all logical systems or on a particular logical system.</p> <p>prefix <i>network/destination-prefix</i>—(Optional) Display database entries for the specified address.</p> <p>table <i>routing-table-name</i>—(Optional) Display information about a particular routing table (for example, inet.0) where policy-based export is currently enabled.</p> <p>unresolved—(Optional) Display routes that could not be resolved.</p>
Required Privilege Level	view
Related Documentation	<ul style="list-style-type: none">• Example: Configuring Route Resolution on PE Routers
List of Sample Output	show route resolution detail on page 299 show route resolution summary on page 300 show route resolution unresolved on page 300

Output Fields Table 25 on page 299 describes the output fields for the **show route resolution** command. Output fields are listed in the approximate order in which they appear.

Table 25: show route resolution Output Fields

Field Name	Field Description
<i>routing-table-name</i>	Name of the routing table whose prefixes are resolved using the entries in the route resolution database. For routing table groups, this is the name of the primary routing table whose prefixes are resolved using the entries in the route resolution database.
Tree index	Tree index identifier.
Nodes	Number of nodes in the tree.
Reference count	Number of references made to the next hop.
Contributing routing tables	Routing tables used for next-hop resolution.
Originating RIB	Name of the routing table whose active route was used to determine the forwarding next-hop entry in the resolution database. For example, in the case of inet.0 resolving through inet.0 and inet.3 , this field indicates which routing table, inet.0 or inet.3 , provided the best path for a particular prefix.
Metric	Metric associated with the forwarding next hop.
Node path count	Number of nodes in the path.
Forwarding next hops	Number of forwarding next hops. The forwarding next hop is the network layer address of the directly reachable neighboring system (if applicable) and the interface used to reach it.

Sample Output

show route resolution detail

```

user@host> show route resolution detail
Tree Index: 1, Nodes 0, Reference Count 1
Contributing routing tables: inet.3
Tree Index: 2, Nodes 23, Reference Count 1
Contributing routing tables: inet.0 inet.3
10.10.0.0/16 Originating RIB: inet.0
  Node path count: 1
  Forwarding nexthops: 1
10.31.1.0/30 Originating RIB: inet.0
  Node path count: 1
  Forwarding nexthops: 1
10.31.1.1/32 Originating RIB: inet.0
  Node path count: 1
  Forwarding nexthops: 0
10.31.1.4/30 Originating RIB: inet.0
  Node path count: 1
  Forwarding nexthops: 1
10.31.1.5/32 Originating RIB: inet.0

```

```

Node path count: 1
Forwarding nexthops: 0
10.31.2.0/30 Originating RIB: inet.0
Metric: 2 Node path count: 1
Forwarding nexthops: 2
10.31.11.0/24 Originating RIB: inet.0
Node path count: 1
Forwarding nexthops: 1

```

show route resolution summary

```

user@host> show route resolution summary
Tree Index: 1, Nodes 24, Reference Count 1
Contributing routing tables: :voice.inet.0 :voice.inet.3
Tree Index: 2, Nodes 2, Reference Count 1
Contributing routing tables: inet.3
Tree Index: 3, Nodes 43, Reference Count 1
Contributing routing tables: inet.0 inet.3

```

show route resolution unresolved

```

user@host> show route resolution unresolved
Tree Index 1
vt-3/2/0.32769.0      /16
    Protocol Nexthop: 10.255.71.238 Push 800000
    Indirect nexthop: 0 -
vt-3/2/0.32772.0      /16
    Protocol Nexthop: 10.255.70.103 Push 800008
    Indirect nexthop: 0 -
Tree Index 2

```

show route snooping

Syntax	<pre>show route snooping <brief detail extensive terse> <all> <best address/prefix> <exact address> <logical-system logical-system-name> <range prefix-range> <summary> <table table-name></pre>
Release Information	<p>Command introduced in Junos OS Release 8.5.</p> <p>Command introduced in Junos OS Release 9.0 for EX Series switches.</p>
Description	Display the entries in the routing table that were learned from snooping.
Options	<p>none—Display the entries in the routing table that were learned from snooping.</p> <p>brief detail extensive terse—(Optional) Display the specified level of output. If you do not specify a level of output, the system defaults to brief.</p> <p>all—(Optional) Display all entries, including hidden entries.</p> <p>best address/prefix—(Optional) Display the longest match for the provided address and optional prefix.</p> <p>exact address/prefix—(Optional) Display exact matches for the provided address and optional prefix.</p> <p>logical-system logical-system-name—(Optional) Display information about a particular logical system, or type 'all'.</p> <p>range prefix-range—(Optional) Display information for the provided address range.</p> <p>summary—(Optional) Display route snooping summary statistics.</p> <p>table table-name—(Optional) Display information for the named table.</p>
Required Privilege Level	view
List of Sample Output	<p>show route snooping detail on page 301</p> <p>show route snooping logical-system all on page 302</p>
Output Fields	For information about output fields, see the output field tables for the show route command, the show route detail command, the show route extensive command, or the show route terse command.

Sample Output

show route snooping detail

```
user@host> show route snooping detail
```

```

__+domainAll__.inet.0: 2 destinations, 2 routes (2 active, 0 holddown, 0 hidden)

224.0.0.2/32 (1 entry, 1 announced)
  *IGMP   Preference: 0
          Next hop type: MultiRecv
          Next-hop reference count: 4
          State: <Active NoReadvrt Int>
          Age: 2:24
          Task: IGMP
          Announcement bits (1): 0-KRT
          AS path: I

224.0.0.22/32 (1 entry, 1 announced)
  *IGMP   Preference: 0
          Next hop type: MultiRecv
          Next-hop reference count: 4
          State: <Active NoReadvrt Int>
          Age: 2:24
          Task: IGMP
          Announcement bits (1): 0-KRT
          AS path: I

__+domainAll__.inet.1: 36 destinations, 36 routes (36 active, 0 holddown, 0 hidden)

224.0.0.0.0.0.0.0/24 (1 entry, 1 announced)
  *Multicast Preference: 180
          Next hop type: Multicast (IPv4), Next hop index: 1048584
          Next-hop reference count: 4
          State: <Active Int>
          Age: 2:24
          Task: MC
          Announcement bits (1): 0-KRT
          AS path: I

<snip>

```

show route snooping logical-system all

```

user@host> show route snooping logical-system all

logical-system: default

inet.1: 20 destinations, 20 routes (20 active, 0 holddown, 0 hidden)
Restart Unsupported
+ = Active Route, - = Last Active, * = Both

0.0,0.1,0.0,232.1.1.65,100.1.1.2/112*[Multicast/180] 00:07:36
      Multicast (IPv4) Composite
0.0,0.1,0.0,232.1.1.66,100.1.1.2/112*[Multicast/180] 00:07:36
      Multicast (IPv4) Composite
0.0,0.1,0.0,232.1.1.67,100.1.1.2/112*[Multicast/180] 00:07:36

<snip>

default-switch.inet.1: 237 dest, 237 rts (237 active, 0 holddown, 0 hidden)
Restart Complete
+ = Active Route, - = Last Active, * = Both

0.15,0.1,0.0,0.0.0.0,0.0.0.0,2/120*[Multicast/180] 00:08:21
      Multicast (IPv4) Composite
0.15,0.1,0.0,0.0.0.0,0.0.0.0,2,17/128*[Multicast/180] 00:08:21

```

Multicast (IPv4) Composite

<snip>

show route source-gateway

List of Syntax	Syntax on page 304 Syntax (EX Series Switches) on page 304
Syntax	<code>show route source-gateway address</code> <brief detail extensive terse> <logical-system (all <i>logical-system-name</i>)>
Syntax (EX Series Switches)	<code>show route source-gateway address</code> <brief detail extensive terse>
Release Information	Command introduced before Junos OS Release 7.4. Command introduced in Junos OS Release 9.0 for EX Series switches.
Description	Display the entries in the routing table that were learned from a particular address. The Source field in the <code>show route detail</code> command output lists the source for each route, if known.
Options	brief detail extensive terse —(Optional) Display the specified level of output. If you do not specify a level of output, the system defaults to brief . address —IP address of the system. logical-system (all <i>logical-system-name</i>) —(Optional) Perform this operation on all logical systems or on a particular logical system.
Required Privilege Level	view
List of Sample Output	show route source-gateway on page 304 show route source-gateway detail on page 305 show route source-gateway extensive on page 307
Output Fields	For information about output fields, see the output field tables for the show route command, the show route detail command, the show route extensive command, or the show route terse command.

Sample Output

show route source-gateway

```
user@host> show route source-gateway 10.255.70.103
inet.0: 24 destinations, 25 routes (23 active, 0 holddown, 1 hidden)
Restart Complete

inet.3: 2 destinations, 2 routes (2 active, 0 holddown, 0 hidden)
Restart Complete

private1___.inet.0: 2 destinations, 3 routes (2 active, 0 holddown, 0 hidden)

iso.0: 1 destinations, 1 routes (1 active, 0 holddown, 0 hidden)
Restart Complete
```

```

mpls.0: 7 destinations, 7 routes (5 active, 0 holddown, 2 hidden)
Restart Complete

inet6.0: 5 destinations, 5 routes (5 active, 0 holddown, 0 hidden)
Restart Complete

private1___.inet6.0: 1 destinations, 1 routes (1 active, 0 holddown, 0 hidden)

green.l2vpn.0: 4 destinations, 4 routes (4 active, 0 holddown, 0 hidden)
Restart Complete
+ = Active Route, - = Last Active, * = Both

10.255.70.103:1:3:1/96
    *[BGP/170] 12:12:24, localpref 100, from 10.255.70.103
    AS path: I
    > via so-0/3/0.0, label-switched-path green-r1-r3

red.l2vpn.0: 3 destinations, 3 routes (3 active, 0 holddown, 0 hidden)
Restart Complete
+ = Active Route, - = Last Active, * = Both

10.255.70.103:2:3:1/96
    *[BGP/170] 12:12:24, localpref 0, from 10.255.70.103
    AS path: I
    > via so-0/3/0.0, label-switched-path green-r1-r3

bgp.l2vpn.0: 4 destinations, 4 routes (4 active, 0 holddown, 0 hidden)
Restart Complete
+ = Active Route, - = Last Active, * = Both

10.255.70.103:1:3:1/96
    *[BGP/170] 12:12:24, localpref 100, from 10.255.70.103
    AS path: I
    > via so-0/3/0.0, label-switched-path green-r1-r3

10.255.70.103:2:3:1/96
    *[BGP/170] 12:12:24, localpref 0, from 10.255.70.103
    AS path: I
    > via so-0/3/0.0, label-switched-path green-r1-r3

```

show route source-gateway detail

```

user@host> show route source-gateway 10.255.70.103 detail
inet.0: 24 destinations, 25 routes (23 active, 0 holddown, 1 hidden)
Restart Complete

inet.3: 2 destinations, 2 routes (2 active, 0 holddown, 0 hidden)
Restart Complete

private1___.inet.0: 2 destinations, 3 routes (2 active, 0 holddown, 0 hidden)

iso.0: 1 destinations, 1 routes (1 active, 0 holddown, 0 hidden)
Restart Complete

mpls.0: 7 destinations, 7 routes (5 active, 0 holddown, 2 hidden)
Restart Complete

inet6.0: 5 destinations, 5 routes (5 active, 0 holddown, 0 hidden)
Restart Complete
green.l2vpn.0: 4 destinations, 4 routes (4 active, 0 holddown, 0 hidden)

```

Restart Complete

10.255.70.103:1:3:1/96 (1 entry, 1 announced)

```
*BGP      Preference: 170/-101
          Route Distinguisher: 10.255.70.103:1
          Next-hop reference count: 7
          Source: 10.255.70.103
          Protocol next hop: 10.255.70.103
          Indirect next hop: 2 no-forward
          State: <Secondary Active Int Ext>
          Local AS: 69 Peer AS: 69
          Age: 12:14:00 Metric2: 1
          Task: BGP_69.10.255.70.103+179
          Announcement bits (1): 0-green-12vpn
          AS path: I
          Communities: target:11111:1 Layer2-info: encaps:VPLS,
          control flags:, mtu: 0
          Label-base: 800008, range: 8
          Localpref: 100
          Router ID: 10.255.70.103
          Primary Routing Table bgp.12vpn.0
```

red.12vpn.0: 3 destinations, 3 routes (3 active, 0 holddown, 0 hidden)

Restart Complete

10.255.70.103:2:3:1/96 (1 entry, 1 announced)

```
*BGP      Preference: 170/-1
          Route Distinguisher: 10.255.70.103:2
          Next-hop reference count: 7
          Source: 10.255.70.103
          Protocol next hop: 10.255.70.103
          Indirect next hop: 2 no-forward
          State: <Secondary Active Int Ext>
          Local AS: 69 Peer AS: 69
          Age: 12:14:00 Metric2: 1
          Task: BGP_69.10.255.70.103+179
          Announcement bits (1): 0-red-12vpn
          AS path: I
          Communities: target:11111:2 Layer2-info: encaps:VPLS,
          control flags:Site-Down, mtu: 0
          Label-base: 800016, range: 8
          Localpref: 0
          Router ID: 10.255.70.103
          Primary Routing Table bgp.12vpn.0
```

bgp.12vpn.0: 4 destinations, 4 routes (4 active, 0 holddown, 0 hidden)

Restart Complete

10.255.70.103:1:3:1/96 (1 entry, 0 announced)

```
*BGP      Preference: 170/-101
          Route Distinguisher: 10.255.70.103:1
          Next-hop reference count: 7
          Source: 10.255.70.103
          Protocol next hop: 10.255.70.103
          Indirect next hop: 2 no-forward
          State: <Active Int Ext>
          Local AS: 69 Peer AS: 69
          Age: 12:14:00 Metric2: 1
          Task: BGP_69.10.255.70.103+179
          AS path: I
          Communities: target:11111:1 Layer2-info: encaps:VPLS, control
          flags:, mtu: 0
```

```

Label-base: 800008, range: 8
Localpref: 100
Router ID: 10.255.70.103
Secondary Tables: green.l2vpn.0
10.255.70.103:2:3:1/96 (1 entry, 0 announced)
  *BGP Preference: 170/-1
    Route Distinguisher: 10.255.70.103:2
    Next-hop reference count: 7
    Source: 10.255.70.103
    Protocol next hop: 10.255.70.103
    Indirect next hop: 2 no-forward
    State: <Active Int Ext>
    Local AS: 69 Peer AS: 69
    Age: 12:14:00 Metric2: 1
    Task: BGP_69.10.255.70.103+179
    AS path: I
    Communities: target:11111:2 Layer2-info: encaps:VPLS,
    control flags:Site-Down,
    mtu: 0
    Label-base: 800016, range: 8
    Localpref: 0
    Router ID: 10.255.70.103
    Secondary Tables: red.l2vpn.0

```

show route source-gateway extensive

```

user@host> show route source-gateway 10.255.70.103 extensive
inet.0: 24 destinations, 25 routes (23 active, 0 holddown, 1 hidden)
Restart Complete

inet.3: 2 destinations, 2 routes (2 active, 0 holddown, 0 hidden)
Restart Complete

private1___.inet.0: 2 destinations, 3 routes (2 active, 0 holddown, 0 hidden)

iso.0: 1 destinations, 1 routes (1 active, 0 holddown, 0 hidden)
Restart Complete

mpls.0: 7 destinations, 7 routes (5 active, 0 holddown, 2 hidden)
Restart Complete

inet6.0: 5 destinations, 5 routes (5 active, 0 holddown, 0 hidden)
Restart Complete

green.l2vpn.0: 4 destinations, 4 routes (4 active, 0 holddown, 0 hidden)
Restart Complete
10.255.70.103:1:3:1/96 (1 entry, 1 announced)
  *BGP Preference: 170/-101
    Route Distinguisher: 10.255.70.103:1
    Next-hop reference count: 7
    Source: 10.255.70.103
    Protocol next hop: 10.255.70.103
    Indirect next hop: 2 no-forward
    State: <Secondary Active Int Ext>
    Local AS: 69 Peer AS: 69
    Age: 12:15:24 Metric2: 1
    Task: BGP_69.10.255.70.103+179
    Announcement bits (1): 0-green-l2vpn
    AS path: I
    Communities: target:11111:1 Layer2-info: encaps:VPLS,
    control flags:, mtu: 0

```

```

Label-base: 800008, range: 8
Localpref: 100
Router ID: 10.255.70.103
Primary Routing Table bgp.l2vpn.0

red.l2vpn.0: 3 destinations, 3 routes (3 active, 0 holddown, 0 hidden)
Restart Complete

10.255.70.103:2:3:1/96 (1 entry, 1 announced)
  *BGP Preference: 170/-1
    Route Distinguisher: 10.255.70.103:2
    Next-hop reference count: 7
    Source: 10.255.70.103
    Protocol next hop: 10.255.70.103
    Indirect next hop: 2 no-forward
    State: <Secondary Active Int Ext>
    Local AS: 69 Peer AS: 69
    Age: 12:15:24 Metric2: 1
    Task: BGP_69.10.255.70.103+179
    Announcement bits (1): 0-red-l2vpn
    AS path: I
    Communities: target:11111:2 Layer2-info: encaps:VPLS,
    control flags:Site-Down, mtu: 0
    Label-base: 800016, range: 8
    Localpref: 0
    Router ID: 10.255.70.103
    Primary Routing Table bgp.l2vpn.0

bgp.l2vpn.0: 4 destinations, 4 routes (4 active, 0 holddown, 0 hidden)
Restart Complete

10.255.70.103:1:3:1/96 (1 entry, 0 announced)
  *BGP Preference: 170/-101
    Route Distinguisher: 10.255.70.103:1
    Next-hop reference count: 7
    Source: 10.255.70.103
    Protocol next hop: 10.255.70.103
    Indirect next hop: 2 no-forward
    State: <Active Int Ext>
    Local AS: 69 Peer AS: 69
    Age: 12:15:24 Metric2: 1
    Task: BGP_69.10.255.70.103+179
    AS path: I
    Communities: target:11111:1 Layer2-info: encaps:VPLS,
    control flags:, mtu: 0
    Label-base: 800008, range: 8
    Localpref: 100
    Router ID: 10.255.70.103
    Secondary Tables: green.l2vpn.0
    Indirect next hops: 1
      Protocol next hop: 10.255.70.103 Metric: 2
      Indirect next hop: 2 no-forward
      Indirect path forwarding next hops: 1
    Next hop: via so-0/3/0.0 weight 0x1
      10.255.70.103/32 Originating RIB: inet.3
      Metric: 2 Node path count: 1
      Forwarding nexthops: 1
      Nexthop: via so-0/3/0.0

10.255.70.103:2:3:1/96 (1 entry, 0 announced)
  *BGP Preference: 170/-1

```

```
Route Distinguisher: 10.255.70.103:2
Next-hop reference count: 7
Source: 10.255.70.103
Protocol next hop: 10.255.70.103
Indirect next hop: 2 no-forward
State: <Active Int Ext>
Local AS: 69 Peer AS: 69
Age: 12:15:24 Metric2: 1
Task: BGP_69.10.255.70.103+179
AS path: I
Communities: target:11111:2 Layer2-info: encaps:VPLS,
control flags:Site-Down,
mtu: 0
Label-base: 800016, range: 8
Localpref: 0
Router ID: 10.255.70.103
Secondary Tables: red.12vpn.0
Indirect next hops: 1
    Protocol next hop: 10.255.70.103 Metric: 2
    Indirect next hop: 2 no-forward
    Indirect path forwarding next hops: 1
Next hop: via so-0/3/0.0 weight 0x1
    10.255.70.103/32 Originating RIB: inet.3
    Metric: 2 Node path count: 1
    Forwarding nexthops: 1
    Nexthop: via so-0/3/0.0
```

show route summary

List of Syntax	Syntax on page 310 Syntax (EX Series Switches) on page 310
Syntax	<pre>show route summary <logical-system (all <i>logical-system-name</i>)> <table <i>routing-table-name</i>></pre>
Syntax (EX Series Switches)	show route summary
Release Information	<p>Command introduced before Junos OS Release 7.4.</p> <p>Command introduced in Junos OS Release 9.0 for EX Series switches.</p>
Description	<p>Display summary statistics about the entries in the routing table.</p> <p>CPU utilization might increase while the device learns routes. We recommend that you use the show route summary command after the device learns and enters the routes into the routing table. Depending on the size of your network, this might take several minutes. If you receive a “timeout communicating with routing daemon” error when using the show route summary command, wait several minutes before attempting to use the command again. This is not a critical system error, but you might experience a delay in using the command-line interface (CLI).</p>
Options	<p>none—Display summary statistics about the entries in the routing table.</p> <p>logical-system (all <i>logical-system-name</i>)—(Optional) Perform this operation on all logical systems or on a particular logical system.</p> <p>table <i>routing-table-name</i>—(Optional) Display summary statistics for all routing tables whose name begins with this string (for example, inet.0 and inet6.0 are both displayed when you run the show route summary table inet command). If you only want to display statistics for a specific routing table, make sure to enter the exact name of that routing table.</p>
Required Privilege Level	view
List of Sample Output	show route summary on page 311 show route summary table on page 312 show route summary table (with Route Limits Configured for the Routing Table) on page 312
Output Fields	<p>Table 26 on page 310 lists the output fields for the show route summary command. Output fields are listed in the approximate order in which they appear.</p>

Table 26: show route summary Output Fields

Field Name	Field Description
Router ID	Address of the local routing device.

Table 26: show route summary Output Fields (*continued*)

Field Name	Field Description
<i>routing-table-name</i>	Name of the routing table (for example, inet.0).
destinations	Number of destinations for which there are routes in the routing table.
routes	Number of routes in the routing table: <ul style="list-style-type: none"> active—Number of routes that are active. holddown—Number of routes that are in the hold-down state before being declared inactive. hidden—Number of routes that are not used because of routing policy.
Limit/Threshold	Displays the configured route limits for the routing table set with the maximum-prefixes and the maximum-paths statements. If you do not configure route limits for the routing table, the show output does not display this information. <ul style="list-style-type: none"> destinations—The first number represents the maximum number of route prefixes installed in the routing table. The second number represents the number of route prefixes that trigger a warning message. routes—The first number represents the maximum number of routes. The second number represents the number of routes that trigger a warning message.
Direct	Routes on the directly connected network.
Local	Local routes.
<i>protocol-name</i>	Name of the protocol from which the route was learned. For example, OSPF , RSVP , and Static .

Sample Output

show route summary

```

user@host> show route summary
Autonomous system number: 69
Router ID: 10.255.71.52
Maximum-ECMP: 32
inet.0: 24 destinations, 25 routes (23 active, 0 holddown, 1 hidden)
Restart Complete
      Direct:    6 routes,      5 active
      Local:    4 routes,      4 active
      OSPF:     5 routes,      4 active
      Static:   7 routes,      7 active
      IGMP:     1 routes,      1 active
      PIM:      2 routes,      2 active

inet.3: 2 destinations, 2 routes (2 active, 0 holddown, 0 hidden)
Restart Complete
      RSVP:      2 routes,      2 active

iso.0: 1 destinations, 1 routes (1 active, 0 holddown, 0 hidden)

```

```

Restart Complete
  Direct:      1 routes,      1 active

mpls.0: 7 destinations, 7 routes (5 active, 0 holddown, 2 hidden)
Restart Complete
  MPLS:       3 routes,      3 active
  VPLS:       4 routes,      2 active

inet6.0: 5 destinations, 5 routes (5 active, 0 holddown, 0 hidden)
Restart Complete
  Direct:      2 routes,      2 active
  PIM:         2 routes,      2 active
  MLD:         1 routes,      1 active

green.l2vpn.0: 4 destinations, 4 routes (4 active, 0 holddown, 0 hidden)
Restart Complete
  BGP:         2 routes,      2 active
  L2VPN:       2 routes,      2 active

red.l2vpn.0: 3 destinations, 3 routes (3 active, 0 holddown, 0 hidden)
Restart Complete
  BGP:         2 routes,      2 active
  L2VPN:       1 routes,      1 active

bgp.l2vpn.0: 4 destinations, 4 routes (4 active, 0 holddown, 0 hidden)
Restart Complete
  BGP:         4 routes,      4 active

```

show route summary table

```

user@host> show route summary table inet
Router ID: 192.168.0.1

inet.0: 32 destinations, 34 routes (31 active, 0 holddown, 1 hidden)
  Direct:      6 routes,      5 active
  Local:       9 routes,      9 active
  OSPF:        3 routes,      1 active
  Static:     13 routes,     13 active
  ICMP:        1 routes,      1 active
  PIM:         2 routes,      2 active

inet.1: 1 destinations, 1 routes (1 active, 0 holddown, 0 hidden)
  Multicast:    1 routes,      1 active

inet6.0: 3 destinations, 3 routes (3 active, 0 holddown, 0 hidden)
  Local:        1 routes,      1 active
  PIM:          2 routes,      2 active

inet6.1: 1 destinations, 1 routes (1 active, 0 holddown, 0 hidden)
  Multicast:    1 routes,      1 active

```

show route summary table (with Route Limits Configured for the Routing Table)

```

user@host> show route summary table VPN-A.inet.0
Autonomous system number: 100
Router ID: 10.255.182.142

VPN-A.inet.0: 13 destinations, 14 routes (13 active, 0 holddown, 0 hidden)
Limit/Threshold: 2000/200 destinations 20/12 routes
  Direct:      2 routes,      2 active
  Local:       1 routes,      1 active

```

OSPF:	4 routes,	3 active
BGP:	4 routes,	4 active
IGMP:	1 routes,	1 active
PIM:	2 routes,	2 active

show route table

List of Syntax	Syntax on page 314 Syntax (EX Series Switches) on page 314
Syntax	<code>show route table <i>routing-table-name</i></code> <code><brief detail extensive terse></code> <code><logical-system (all <i>logical-system-name</i>)></code>
Syntax (EX Series Switches)	<code>show route table <i>routing-table-name</i></code> <code><brief detail extensive terse></code>
Release Information	Command introduced before Junos OS Release 7.4. Command introduced in Junos OS Release 9.0 for EX Series switches.
Description	Display the route entries in a particular routing table.
Options	brief detail extensive terse —(Optional) Display the specified level of output. logical-system (all <i>logical-system-name</i>) —(Optional) Perform this operation on all logical systems or on a particular logical system. <i>routing-table-name</i> —Display route entries for all routing tables whose name begins with this string (for example, inet.0 and inet6.0 are both displayed when you run the show route table inet command).
Required Privilege Level	view
Related Documentation	<ul style="list-style-type: none">• show route summary on page 310
List of Sample Output	show route table bgp.l2.vpn on page 315 show route table bgp.l3vpn.0 on page 315 show route table bgp.l3vpn.0 detail on page 315 show route table bgp.rtarget.0 (When Proxy BGP Route Target Filtering Is Configured) on page 317 show route table bgp.evpn.0 on page 317 show route table inet.0 on page 317 show route table inet.3 on page 318 show route table inet6.0 on page 318 show route table inet6.3 on page 318 show route table inetflow detail on page 319 show route table l2circuit.0 on page 319 show route table mpls on page 319 show route table mpls extensive on page 320 show route table mpls.0 on page 320 show route table mpls.0 detail (PTX Series) on page 320 show route table mpls.0 extensive (PTX Series) on page 321 show route table mpls.0 (RSVP Route—Transit LSP) on page 322

[show route table vpls_1 detail on page 322](#)
[show route table vpn-a on page 323](#)
[show route table vpn-a.mdt.0 on page 323](#)
[show route table VPN-A detail on page 323](#)
[show route table VPN-AB.inet.0 on page 324](#)
[show route table VPN_blue.mvpn-inet6.0 on page 324](#)
[show route table vrf1.mvpn.0 extensive on page 325](#)
[show route table MVPN.mvpn.0 on page 325](#)
[show route table inetflow detail on page 325](#)

Output Fields For information about output fields, see the output field tables for the [show route](#) command, the [show route detail](#) command, the [show route extensive](#) command, or the [show route terse](#) command.

Sample Output

show route table bgp.l2vpn

```

user@host> show route table bgp.l2vpn
bgp.l2vpn.0: 1 destinations, 1 routes (1 active, 0 holddown, 0 hidden)
+ = Active Route, - = Last Active, * = Both

192.168.24.1:1:4:1/96
    *[BGP/170] 01:08:58, localpref 100, from 192.168.24.1
    AS path: I
    > to 10.0.16.2 via fe-0/0/1.0, label-switched-path am

```

show route table bgp.l3vpn.0

```

user@host> show route table bgp.l3vpn.0
bgp.l3vpn.0: 2 destinations, 2 routes (2 active, 0 holddown, 0 hidden)
+ = Active Route, - = Last Active, * = Both

10.255.71.15:100:10.255.71.17/32
    *[BGP/170] 00:03:59, MED 1, localpref 100, from
10.255.71.15
    AS path: I
    > via so-2/1/0.0, Push 100020, Push 100011(top)
10.255.71.15:200:10.255.71.18/32
    *[BGP/170] 00:03:59, MED 1, localpref 100, from
10.255.71.15
    AS path: I
    > via so-2/1/0.0, Push 100021, Push 100011(top)

```

show route table bgp.l3vpn.0 detail

```

user@host> show route table bgp.l3vpn.0 detail
bgp.l3vpn.0: 8 destinations, 8 routes (8 active, 0 holddown, 0 hidden)

10.255.245.12:1:4.0.0.0/8 (1 entry, 1 announced)
  *BGP Preference: 170/-101
    Route Distinguisher: 10.255.245.12:1
    Source: 10.255.245.12
    Next hop: 192.168.208.66 via fe-0/0/0.0, selected
    Label operation: Push 182449
    Protocol next hop: 10.255.245.12
    Push 182449
    Indirect next hop: 863a630 297

```

```

State: <Active Int Ext>
Local AS: 35 Peer AS: 35
Age: 12:19 Metric2: 1
Task: BGP_35.10.255.245.12+179
Announcement bits (1): 0-BGP.0.0.0.0+179
AS path: 30 10458 14203 2914 3356 I (Atomic) Aggregator: 3356 4.68.0.11

Communities: 2914:420 target:11111:1 origin:56:78
VPN Label: 182449
Localpref: 100
Router ID: 10.255.245.12

10.255.245.12:1:4.17.225.0/24 (1 entry, 1 announced)
*BGP Preference: 170/-101
Route Distinguisher: 10.255.245.12:1
Source: 10.255.245.12
Next hop: 192.168.208.66 via fe-0/0/0.0, selected
Label operation: Push 182465
Protocol next hop: 10.255.245.12
Push 182465
Indirect next hop: 863a8f0 305
State: <Active Int Ext>
Local AS: 35 Peer AS: 35
Age: 12:19 Metric2: 1
Task: BGP_35.10.255.245.12+179
Announcement bits (1): 0-BGP.0.0.0.0+179
AS path: 30 10458 14203 2914 11853 11853 11853 6496 6496 6496 6496 6496 6496 I
Communities: 2914:410 target:12:34 target:11111:1 origin:12:34
VPN Label: 182465
Localpref: 100
Router ID: 10.255.245.12

10.255.245.12:1:4.17.226.0/23 (1 entry, 1 announced)
*BGP Preference: 170/-101
Route Distinguisher: 10.255.245.12:1
Source: 10.255.245.12
Next hop: 192.168.208.66 via fe-0/0/0.0, selected
Label operation: Push 182465
Protocol next hop: 10.255.245.12
Push 182465
Indirect next hop: 86bd210 330
State: <Active Int Ext>
Local AS: 35 Peer AS: 35
Age: 12:19 Metric2: 1
Task: BGP_35.10.255.245.12+179
Announcement bits (1): 0-BGP.0.0.0.0+179
AS path: 30 10458 14203 2914 11853 11853 11853 6496 6496 6496 6496 6496
6496 I
Communities: 2914:410 target:12:34 target:11111:1 origin:12:34
VPN Label: 182465
Localpref: 100
Router ID: 10.255.245.12

10.255.245.12:1:4.17.251.0/24 (1 entry, 1 announced)
*BGP Preference: 170/-101
Route Distinguisher: 10.255.245.12:1
Source: 10.255.245.12
Next hop: 192.168.208.66 via fe-0/0/0.0, selected
Label operation: Push 182465
Protocol next hop: 10.255.245.12

```

```

Push 182465
Indirect next hop: 86bd210 330
State: <Active Int Ext>
Local AS: 35 Peer AS: 35
Age: 12:19 Metric2: 1
Task: BGP_35.10.255.245.12+179
Announcement bits (1): 0-BGP.0.0.0.0+179
AS path: 30 10458 14203 2914 11853 11853 11853 6496 6496 6496 6496 6496

6496 I
Communities: 2914:410 target:12:34 target:11111:1 origin:12:34
VPN Label: 182465
Localpref: 100

```

show route table bgp.rtarget.0 (When Proxy BGP Route Target Filtering Is Configured)

```

user@host> show route table bgp.rtarget.0
bgp.rtarget.0: 1 destinations, 1 routes (1 active, 0 holddown, 0 hidden)
+ = Active Route, - = Last Active, * = Both

100:100:100/96
    * [RTarget/5] 00:03:14
      Type Proxy
      for 10.255.165.103
      for 10.255.166.124
      Local

```

show route table bgp.evpn.0

```

user@host> show route table bgp.evpn.0
bgp.evpn.0: 6 destinations, 6 routes (6 active, 0 holddown, 0 hidden)
+ = Active Route, - = Last Active, * = Both

2:100.100.100.2:100::0:00:26:88:5f:67:b0/304
    * [BGP/170] 11:00:05, localpref 100, from 100.100.100.2
      AS path: I, validation-state: unverified
      > to 100.1.12.2 via xe-2/2/0.0, label-switched-path R0toR1
2:100.100.100.2:100::0:00:51:51:51:51:51/304
    * [BGP/170] 11:00:05, localpref 100, from 100.100.100.2
      AS path: I, validation-state: unverified
      > to 100.1.12.2 via xe-2/2/0.0, label-switched-path R0toR1
2:100.100.100.3:100::0:00:52:52:52:52:52/304
    * [BGP/170] 10:59:58, localpref 100, from 100.100.100.3
      AS path: I, validation-state: unverified
      > to 100.1.13.3 via ge-2/0/8.0, label-switched-path R0toR2
2:100.100.100.3:100::0:a8:d0:e5:5b:01:c8/304
    * [BGP/170] 10:59:58, localpref 100, from 100.100.100.3
      AS path: I, validation-state: unverified
      > to 100.1.13.3 via ge-2/0/8.0, label-switched-path R0toR2
3:100.100.100.2:100::1000::100.100.100.2/304
    * [BGP/170] 11:00:16, localpref 100, from 100.100.100.2
      AS path: I, validation-state: unverified
      > to 100.1.12.2 via xe-2/2/0.0, label-switched-path R0toR1
3:100.100.100.2:100::2000::100.100.100.2/304
    * [BGP/170] 11:00:16, localpref 100, from 100.100.100.2
      AS path: I, validation-state: unverified
      > to 100.1.12.2 via xe-2/2/0.0, label-switched-path R0toR1

```

show route table inet.0

```

user@host> show route table inet.0

```

```

inet.0: 12 destinations, 12 routes (11 active, 0 holddown, 1 hidden)
+ = Active Route, - = Last Active, * = Both

0.0.0.0/0          *[Static/5] 00:51:57
                   > to 111.222.5.254 via fxp0.0
1.0.0.1/32        *[Direct/0] 00:51:58
                   > via at-5/3/0.0
1.0.0.2/32        *[Local/0] 00:51:58
                   Local
12.12.12.21/32    *[Local/0] 00:51:57
                   Reject
13.13.13.13/32    *[Direct/0] 00:51:58
                   > via t3-5/2/1.0
13.13.13.14/32    *[Local/0] 00:51:58
                   Local
13.13.13.21/32    *[Local/0] 00:51:58
                   Local
13.13.13.22/32    *[Direct/0] 00:33:59
                   > via t3-5/2/0.0
127.0.0.1/32     [Direct/0] 00:51:58
                   > via lo0.0
111.222.5.0/24    *[Direct/0] 00:51:58
                   > via fxp0.0
111.222.5.81/32  *[Local/0] 00:51:58
                   Local

```

show route table inet.3

```

user@host> show route table inet.3
inet.3: 5 destinations, 5 routes (5 active, 0 holddown, 0 hidden)
+ = Active Route, - = Last Active, * = Both

22.0.0.5/32      *[LDP/9] 00:25:43, metric 10, tag 200
                  to 1.2.94.2 via lt-1/2/0.49
                  > to 1.2.3.2 via lt-1/2/0.23

```

show route table inet6.0

```

user@host> show route table inet6.0
inet6.0: 3 destinations, 3 routes (3 active, 0 holddown, 0 hidden)
+ = Active Route, - = Last Route, * = Both

fec0:0:0:3::/64  *[Direct/0] 00:01:34
>via fe-0/1/0.0

fec0:0:0:3::/128 *[Local/0] 00:01:34
>Local

fec0:0:0:4::/64  *[Static/5] 00:01:34
>to fec0:0:0:3::ffff via fe-0/1/0.0

```

show route table inet6.3

```

user@router> show route table inet6.3
inet6.3: 2 destinations, 2 routes (2 active, 0 holddown, 0 hidden)
+ = Active Route, - = Last Active, * = Both

::10.255.245.195/128
                  *[LDP/9] 00:00:22, metric 1
                  > via so-1/0/0.0
::10.255.245.196/128

```

```
*[LDP/9] 00:00:08, metric 1
> via so-1/0/0.0, Push 100008
```

show route table inetflow detail

```
user@host> show route table inetflow detail
inetflow.0: 2 destinations, 2 routes (2 active, 0 holddown, 0 hidden)
10.12.44.1,*/48 (1 entry, 1 announced)
    *BGP    Preference: 170/-101
            Next-hop reference count: 2
            State: <Active Ext>
            Local AS: 65002 Peer AS: 65000
            Age: 4
            Task: BGP_65000.10.12.99.5+3792
            Announcement bits (1): 0-Flow
            AS path: 65000 I
            Communities: traffic-rate:0:0
            Validation state: Accept, Originator: 10.12.99.5
            Via: 10.12.44.0/24, Active
            Localpref: 100
            Router ID: 10.255.71.161

10.12.56.1,*/48 (1 entry, 1 announced)
    *Flow    Preference: 5
            Next-hop reference count: 2
            State: <Active>
            Local AS: 65002
            Age: 6:30
            Task: RT Flow
            Announcement bits (2): 0-Flow 1-BGP.0.0.0.0+179
            AS path: I
            Communities: 1:1
```

show route table l2circuit.0

```
user@host> show route table l2circuit.0
l2circuit.0: 4 destinations, 4 routes (4 active, 0 holddown, 0 hidden)
+ = Active Route, - = Last Active, * = Both

10.1.1.195:NoCtrlWord:1:1:Local/96
    *[L2CKT/7] 00:50:47
    > via so-0/1/2.0, Push 100049
    via so-0/1/3.0, Push 100049
10.1.1.195:NoCtrlWord:1:1:Remote/96
    *[LDP/9] 00:50:14
    Discard
10.1.1.195:CtrlWord:1:2:Local/96
    *[L2CKT/7] 00:50:47
    > via so-0/1/2.0, Push 100049
    via so-0/1/3.0, Push 100049
10.1.1.195:CtrlWord:1:2:Remote/96
    *[LDP/9] 00:50:14
    Discard
```

show route table mpls

```
user@host> show route table mpls
mpls.0: 4 destinations, 4 routes (4 active, 0 holddown, 0 hidden)
+ = Active Route, - = Last Active, * = Both

0                *[MPLS/0] 00:13:55, metric 1
                  Receive
```

```

1          *[MPLS/0] 00:13:55, metric 1
           Receive
2          *[MPLS/0] 00:13:55, metric 1
           Receive
1024       *[VPN/0] 00:04:18
           to table red.inet.0, Pop

```

show route table mpls extensive

```

user@host> show route table mpls extensive
100000 (1 entry, 1 announced)
TSI:
KRT in-kerne1 100000 /36 -> {so-1/0/0.0}
      *LDP      Preference: 9
              Next hop: via so-1/0/0.0, selected
              Pop
              State: <Active Int>
              Age: 29:50      Metric: 1
              Task: LDP
              Announcement bits (1): 0-KRT
              AS path: I
              Prefixes bound to route: 10.0.0.194/32

```

show route table mpls.0

```

user@host> show route table mpls.0
mpls.0: 11 destinations, 11 routes (11 active, 0 holddown, 0 hidden)
+ = Active Route, - = Last Active, * = Both

0          *[MPLS/0] 00:45:09, metric 1
           Receive
1          *[MPLS/0] 00:45:09, metric 1
           Receive
2          *[MPLS/0] 00:45:09, metric 1
           Receive
100000     *[L2VPN/7] 00:43:04
           > via so-0/1/0.1, Pop
100001     *[L2VPN/7] 00:43:03
           > via so-0/1/0.2, Pop      Offset: 4
100002     *[LDP/9] 00:43:22, metric 1
           via so-0/1/2.0, Pop
           > via so-0/1/3.0, Pop
100002(S=0) *[LDP/9] 00:43:22, metric 1
           via so-0/1/2.0, Pop
           > via so-0/1/3.0, Pop
100003     *[LDP/9] 00:43:22, metric 1
           > via so-0/1/2.0, Swap 100002
           via so-0/1/3.0, Swap 100002
100004     *[LDP/9] 00:43:16, metric 1
           via so-0/1/2.0, Swap 100049
           > via so-0/1/3.0, Swap 100049
so-0/1/0.1 *[L2VPN/7] 00:43:04
           > via so-0/1/2.0, Push 100001, Push 100049(top)
           via so-0/1/3.0, Push 100001, Push 100049(top)
so-0/1/0.2 *[L2VPN/7] 00:43:03
           via so-0/1/2.0, Push 100000, Push 100049(top) Offset: -4
           > via so-0/1/3.0, Push 100000, Push 100049(top) Offset: -4

```

show route table mpls.0 detail (PTX Series)

```

user@host> show route table mpls.0 detail

```

```

ge-0/0/2.600 (1 entry, 1 announced)
  *L2VPN Preference: 7
    Next hop type: Indirect
    Address: 0x9438f34
    Next-hop reference count: 2
    Next hop type: Router, Next hop index: 567
    Next hop: 3.0.0.1 via ge-0/0/1.0, selected
    Label operation: Push 299808
    Label TTL action: prop-ttl
    Load balance label: Label 299808:None;
    Session Id: 0x1
    Protocol next hop: 10.255.255.1
    Label operation: Push 299872 Offset: 252
    Label TTL action: no-prop-ttl
    Load balance label: Label 299872:Flow label PUSH;
    Composite next hop: 0x9438ed8 570 INH Session ID: 0x2
    Indirect next hop: 0x9448208 262142 INH Session ID: 0x2
    State: <Active Int>
    Age: 21 Metric2: 1
    Validation State: unverified
    Task: Common L2 VC
    Announcement bits (2): 0-KRT 2-Common L2 VC
    AS path: I

```

show route table mpls.0 extensive (PTX Series)

```

user@host> show route table mpls.0 extensive
ge-0/0/2.600 (1 entry, 1 announced)
TSI:
KRT in-kernel ge-0/0/2.600.0 /32 -> {composite(570)}
  *L2VPN Preference: 7
    Next hop type: Indirect
    Address: 0x9438f34
    Next-hop reference count: 2
    Next hop type: Router, Next hop index: 567
    Next hop: 3.0.0.1 via ge-0/0/1.0, selected
    Label operation: Push 299808
    Label TTL action: prop-ttl
    Load balance label: Label 299808:None;
    Session Id: 0x1
    Protocol next hop: 10.255.255.1
    Label operation: Push 299872 Offset: 252
    Label TTL action: no-prop-ttl
    Load balance label: Label 299872:Flow label PUSH;
    Composite next hop: 0x9438ed8 570 INH Session ID: 0x2
    Indirect next hop: 0x9448208 262142 INH Session ID: 0x2
    State: <Active Int>
    Age: 47 Metric2: 1
    Validation State: unverified
    Task: Common L2 VC
    Announcement bits (2): 0-KRT 2-Common L2 VC
    AS path: I
    Composite next hops: 1
      Protocol next hop: 10.255.255.1 Metric: 1
      Label operation: Push 299872 Offset: 252
      Label TTL action: no-prop-ttl
      Load balance label: Label 299872:Flow label PUSH;
      Composite next hop: 0x9438ed8 570 INH Session ID: 0x2
      Indirect next hop: 0x9448208 262142 INH Session ID: 0x2
      Indirect path forwarding next hops: 1
        Next hop type: Router

```

```

Next hop: 3.0.0.1 via ge-0/0/1.0
Session Id: 0x1
10.255.255.1/32 Originating RIB: inet.3
Metric: 1                               Node path count: 1
Forwarding nexthops: 1
Nexthop: 3.0.0.1 via ge-0/0/1.0

```

show route table mpls.0 (RSVP Route—Transit LSP)

In the sample output, the 1 in **[RSVP/7/1]** indicates the secondary preference value. The secondary preference value becomes significant when multiple RSVP LSPs of different types are signaled to the destination. The possible values of RSVP secondary preferences are:

1—Normal Point-to-Point RSVP-TE LSP

2—Point-to-Multipoint (P2MP) RSVP-TE LSP

3—Dynamic RSVP-TE LSP

```
user@host> show route table mpls.0
```

```

mpls.0: 8 destinations, 8 routes (8 active, 0 holddown, 0 hidden)
+ = Active Route, - = Last Active, * = Both

```

```

0          *[MPLS/0] 00:37:31, metric 1
            Receive
1          *[MPLS/0] 00:37:31, metric 1
            Receive
2          *[MPLS/0] 00:37:31, metric 1
            Receive
13         *[MPLS/0] 00:37:31, metric 1
            Receive
300352     *[RSVP/7/1] 00:08:00, metric 1
            > to 8.64.0.106 via ge-1/0/1.0, label-switched-path lsp1_p2p
300352(S=0) *[RSVP/7/1] 00:08:00, metric 1
            > to 8.64.0.106 via ge-1/0/1.0, label-switched-path lsp1_p2p
300384     *[RSVP/7/2] 00:05:20, metric 1
            > to 8.64.1.106 via ge-1/0/0.0, Pop
300384(S=0) *[RSVP/7/2] 00:05:20, metric 1
            > to 8.64.1.106 via ge-1/0/0.0, Pop

```

show route table vpls_1 detail

```
user@host> show route table vpls_1 detail
```

```

vpls_1.l2vpn.0: 1 destinations, 1 routes (1 active, 0 holddown, 0 hidden)
Restart Complete

```

```

1.1.1.11:1000:1:1/96 (1 entry, 1 announced)
*L2VPN Preference: 170/-1
Receive table: vpls_1.l2vpn.0
Next-hop reference count: 2
State: <Active Int Ext>
Age: 4:29:47 Metric2: 1
Task: vpls_1-l2vpn
Announcement bits (1): 1-BGP.0.0.0.0+179
AS path: I
Communities: Layer2-info: encaps:VPLS, control flags:Site-Down
Label-base: 800000, range: 8, status-vector: 0xFF

```

show route table vpn-a

```

user@host> show route table vpn-a
vpn-a.12vpn.0: 3 destinations, 3 routes (3 active, 0 holddown, 0 hidden)

+ = Active Route, - = Last Active, * = Both
192.168.16.1:1:1:1/96
    *[VPN/7] 05:48:27
    Discard
192.168.24.1:1:2:1/96
    *[BGP/170] 00:02:53, localpref 100, from 192.168.24.1
    AS path: I
    > to 10.0.16.2 via fe-0/0/1.0, label-switched-path am
192.168.24.1:1:3:1/96
    *[BGP/170] 00:02:53, localpref 100, from 192.168.24.1
    AS path: I
    > to 10.0.16.2 via fe-0/0/1.0, label-switched-path am

```

show route table vpn-a.mdt.0

```

user@host> show route table vpn-a.mdt.0
vpn-a.mdt.0: 3 destinations, 3 routes (3 active, 0 holddown, 0 hidden)
+ = Active Route, - = Last Active, * = Both

1:1:0:10.255.14.216:232.1.1.1/144
    *[MVPN/70] 01:23:05, metric2 1
    Indirect
1:1:1:10.255.14.218:232.1.1.1/144
    *[BGP/170] 00:57:49, localpref 100, from 10.255.14.218
    AS path: I
    > via so-0/0/0.0, label-switched-path r0e-to-r1
1:1:2:10.255.14.217:232.1.1.1/144
    *[BGP/170] 00:57:49, localpref 100, from 10.255.14.217
    AS path: I
    > via so-0/0/1.0, label-switched-path r0-to-r2

```

show route table VPN-A detail

```

user@host> show route table VPN-A detail
VPN-AB.inet.0: 8 destinations, 8 routes (8 active, 0 holddown, 0 hidden)
10.255.179.9/32 (1 entry, 1 announced)
    *BGP Preference: 170/-101
    Route Distinguisher: 10.255.179.13:200
    Next hop type: Indirect
    Next-hop reference count: 5
    Source: 10.255.179.13
    Next hop type: Router, Next hop index: 732
    Next hop: 10.39.1.14 via fe-0/3/0.0, selected
    Label operation: Push 299824, Push 299824(top)
    Protocol next hop: 10.255.179.13
    Push 299824
    Indirect next hop: 8f275a0 1048574
    State: (Secondary Active Int Ext)
    Local AS: 1 Peer AS: 1
    Age: 3:41:06 Metric: 1 Metric2: 1
    Task: BGP_1.10.255.179.13+64309
    Announcement bits (2): 0-KRT 1-BGP RT Background
    AS path: I
    Communities: target:1:200 rte-type:0.0.0.0:1:0
    Import Accepted
    VPN Label: 299824 TTL Action: vrf-ttl-propagate

```

```

Localpref: 100
Router ID: 10.255.179.13
Primary Routing Table bgp.13vpn.0

```

show route table VPN-AB.inet.0

```

user@host> show route table VPN-AB.inet.0
VPN-AB.inet.0: 8 destinations, 8 routes (8 active, 0 holddown, 0 hidden)
+ = Active Route, - = Last Active, * = Both

10.39.1.0/30      *[OSPF/10] 00:07:24, metric 1
                  > via so-7/3/1.0
10.39.1.4/30      *[Direct/0] 00:08:42
                  > via so-5/1/0.0
10.39.1.6/32      *[Local/0] 00:08:46
                  Local
10.255.71.16/32   *[Static/5] 00:07:24
                  > via so-2/0/0.0
10.255.71.17/32   *[BGP/170] 00:07:24, MED 1, localpref 100, from
10.255.71.15
                  AS path: I
                  > via so-2/1/0.0, Push 100020, Push 100011(top)
10.255.71.18/32   *[BGP/170] 00:07:24, MED 1, localpref 100, from
10.255.71.15
                  AS path: I
                  > via so-2/1/0.0, Push 100021, Push 100011(top)
10.255.245.245/32 *[BGP/170] 00:08:35, localpref 100
                  AS path: 2 I
                  > to 10.39.1.5 via so-5/1/0.0
10.255.245.246/32 *[OSPF/10] 00:07:24, metric 1
                  > via so-7/3/1.0

```

show route table VPN_blue.mvpn-inet6.0

```

user@host> show route table VPN_blue.mvpn-inet6.0
vpn_blue.mvpn-inet6.0: 6 destinations, 6 routes (6 active, 0 holddown, 0 hidden)
+ = Active Route, - = Last Active, * = Both

1:10.255.2.202:65535:10.255.2.202/432
                  *[BGP/170] 00:02:37, localpref 100, from 10.255.2.202
                  AS path: I
                  > via so-0/1/3.0
1:10.255.2.203:65535:10.255.2.203/432
                  *[BGP/170] 00:02:37, localpref 100, from 10.255.2.203
                  AS path: I
                  > via so-0/1/0.0
1:10.255.2.204:65535:10.255.2.204/432
                  *[MVPN/70] 00:57:23, metric2 1
                  Indirect
5:10.255.2.202:65535:128::192.168.90.2:128:ffff::1/432
                  *[BGP/170] 00:02:37, localpref 100, from 10.255.2.202
                  AS path: I
                  > via so-0/1/3.0
6:10.255.2.203:65535:65000:128::10.12.53.12:128:ffff::1/432
                  *[PIM/105] 00:02:37
                  Multicast (IPv6)
7:10.255.2.202:65535:65000:128::192.168.90.2:128:ffff::1/432
                  *[MVPN/70] 00:02:37, metric2 1
                  Indirect

```

show route table vrf1.mvpn.0 extensive

```

user@host> show route table vrf1.mvpn.0 extensive
1:10.255.50.77:1:10.255.50.77/240 (1 entry, 1 announced)
    *MVPN    Preference: 70
              PMSI: Flags 0x0: Label 0: RSVP-TE:
Session_13[10.255.50.77:0:25624:10.255.50.77]
    Next hop type: Indirect
    Address: 0xbb2c944
    Next-hop reference count: 360
    Protocol next hop: 10.255.50.77
    Indirect next hop: 0x0 - INH Session ID: 0x0
    State: <Active Int Ext>
    Age: 53:03      Metric2: 1
    Validation State: unverified
    Task: mvpn global task
    Announcement bits (3): 0-PIM.vrf1 1-mvpn global task 2-rt-export

    AS path: I

```

show route table MVPN.mvpn.0

Starting in Junos OS Release 15.1, multicast routes on the locally originated type 7 customer multicast routes are added exclusively by PIM. The functionality of the BGP-MVPN service (which, internally, depends on contributions of state from both the MVPN and PIM protocol components of Junos OS) remains unchanged. MVPN, however, no longer appears as the originator of the locally advertised route. Routes advertised by remote PEs are, as usual, always learned locally from their respective [BGP/...] protocol.

```

user@host> show route table MVPN.mvpn.0
MVPN.mvpn.0: 3 destinations, 3 routes (3 active, 0 holddown, 0 hidden)
+ = Active Route, - = Last Active, * = Both

7:10.255.2.202:65535:65000:128:::192.168.90.2:128:ffff::1/432
    * [PIM/70] 00:02:37, metric2 1
    Indirect
5:100:32:192.168.1.9:32:239.1.1.1/240
    * [PIM/105] 01:51:21
    Multicast (IPv4)
7:100:1:100.32.192.168.5:32:237.1.1.1/240
    * [PIM/105] 01:51:21
    Multicast (IPv4)

```

show route table inetflow detail

```

user@host> show route table inetflow detail
inetflow.0: 2 destinations, 2 routes (2 active, 0 holddown, 0 hidden)
10.12.44.1,*/48 (1 entry, 1 announced)
    *BGP      Preference: 170/-101
              Next-hop reference count: 2
              State: <Active Ext>
              Local AS: 65002 Peer AS: 65000
              Age: 4
              Task: BGP_65000.10.12.99.5+3792
              Announcement bits (1): 0-Flow
              AS path: 65000 I
              Communities: traffic-rate:0:0
              Validation state: Accept, Originator: 10.12.99.5
              Via: 10.12.44.0/24, Active
              Localpref: 100

```

```

Router ID: 10.255.71.161

10.12.56.1,*/48 (1 entry, 1 announced)
  *Flow Preference: 5
    Next-hop reference count: 2
    State: <Active>
    Local AS: 65002
    Age: 6:30
    Task: RT Flow
    Announcement bits (2): 0-Flow 1-BGP.0.0.0.0+179
    AS path: I
    Communities: 1:1

user@PE1> show route table green.l2vpn.0 (VPLS Multihoming with FEC 129)
green.l2vpn.0: 6 destinations, 6 routes (6 active, 0 holddown, 0 hidden)
+ = Active Route, - = Last Active, * = Both

1.1.1.2:100:1.1.1.2/96 AD
  *[VPLS/170] 1d 03:11:03, metric2 1
    Indirect
1.1.1.4:100:1.1.1.4/96 AD
  *[BGP/170] 1d 03:11:02, localpref 100, from 1.1.1.4
    AS path: I, validation-state: unverified
  > via ge-1/2/1.5
1.1.1.2:100:1:0/96 MH
  *[VPLS/170] 1d 03:11:03, metric2 1
    Indirect
1.1.1.4:100:1:0/96 MH
  *[BGP/170] 1d 03:11:02, localpref 100, from 1.1.1.4
    AS path: I, validation-state: unverified
  > via ge-1/2/1.5
1.1.1.4:NoCtrlWord:5:100:100:1.1.1.2:1.1.1.4/176
  *[VPLS/7] 1d 03:11:02, metric2 1
  > via ge-1/2/1.5
1.1.1.4:NoCtrlWord:5:100:100:1.1.1.4:1.1.1.2/176
  *[LDP/9] 1d 03:11:02
    Discard

user@host> show route table red extensive
red.inet.0: 364481 destinations, 714087 routes (364480 active, 48448 holddown, 1
hidden)
22.0.0.0/32 (3 entries, 1 announced)
  State: <OnList CalcForwarding>
TSI:
KRT in-kernel 22.0.0.0/32 -> {composite(1048575)} Page 0 idx 1 Type 1 val 0x934342c

  Nexthop: Self
  AS path: [2] I
  Communities: target:2:1
Path 22.0.0.0 from 2.3.0.0 Vector len 4. Val: 1
  @BGP Preference: 170/-1
    Route Distinguisher: 2:1
    Next hop type: Indirect
    Address: 0x258059e4
    Next-hop reference count: 2
    Source: 2.2.0.0
    Next hop type: Router
    Next hop: 10.1.1.1 via ge-1/1/9.0, selected
    Label operation: Push 707633
    Label TTL action: prop-ttl
    Session Id: 0x17d8

```

```

Protocol next hop: 2.2.0.0
Push 16
Composite next hop: 0x25805988 - INH Session ID: 0x193c
Indirect next hop: 0x23eea900 - INH Session ID: 0x193c
State: <Secondary Active Int Ext ProtectionPath ProtectionCand>
Local AS:      2 Peer AS:      2
Age: 23        Metric2: 35
Validation State: unverified
Task: BGP_2.2.2.0.0+34549
AS path: I
Communities: target:2:1
Import Accepted
VPN Label: 16
Localpref: 0
Router ID: 2.2.0.0
Primary Routing Table bgp.13vpn.0
Composite next hops: 1
  Protocol next hop: 2.2.0.0 Metric: 35
  Push 16
  Composite next hop: 0x25805988 - INH Session ID: 0x193c
  Indirect next hop: 0x23eea900 - INH Session ID: 0x193c
  Indirect path forwarding next hops: 1
    Next hop type: Router
    Next hop: 10.1.1.1 via ge-1/1/9.0
    Session Id: 0x17d8
  2.2.0.0/32 Originating RIB: inet.3
  Metric: 35                      Node path count: 1
  Forwarding nexthops: 1
    Nexthop: 10.1.1.1 via ge-1/1/9.0
BGP Preference: 170/-1
Route Distinguisher: 2:1
Next hop type: Indirect
Address: 0x9347028
Next-hop reference count: 3
Source: 2.3.0.0
Next hop type: Router, Next hop index: 702
Next hop: 10.1.4.2 via ge-1/0/0.0, selected
Label operation: Push 634278
Label TTL action: prop-ttl
Session Id: 0x17d9
Protocol next hop: 2.3.0.0
Push 16
Composite next hop: 0x93463a0 1048575 INH Session ID: 0x17da
Indirect next hop: 0x91e8800 1048574 INH Session ID: 0x17da
State: <Secondary NotBest Int Ext ProtectionPath ProtectionCand>

Inactive reason: Not Best in its group - IGP metric
Local AS:      2 Peer AS:      2
Age: 3:34      Metric2: 70
Validation State: unverified
Task: BGP_2.2.3.0.0+32805
Announcement bits (2): 0-KRT 1-BGP_RT_Background
AS path: I
Communities: target:2:1
Import Accepted
VPN Label: 16
Localpref: 0
Router ID: 2.3.0.0
Primary Routing Table bgp.13vpn.0
Composite next hops: 1
  Protocol next hop: 2.3.0.0 Metric: 70

```

```

                                Push 16
                                Composite next hop: 0x93463a0 1048575 INH Session ID:
0x17da
                                Indirect next hop: 0x91e8800 1048574 INH Session ID:
0x17da
                                Indirect path forwarding next hops: 1
                                    Next hop type: Router
                                    Next hop: 10.1.4.2 via ge-1/0/0.0
                                    Session Id: 0x17d9
                                2.3.0.0/32 Originating RIB: inet.3
                                    Metric: 70                                Node path count: 1
                                    Forwarding nexthops: 1
                                        Nexthop: 10.1.4.2 via ge-1/0/0.0
#Multipath Preference: 255
    Next hop type: Indirect
    Address: 0x24afca30
    Next-hop reference count: 1
    Next hop type: Router
    Next hop: 10.1.1.1 via ge-1/1/9.0, selected
    Label operation: Push 707633
    Label TTL action: prop-ttl
    Session Id: 0x17d8
    Next hop type: Router, Next hop index: 702
    Next hop: 10.1.4.2 via ge-1/0/0.0
    Label operation: Push 634278
    Label TTL action: prop-ttl
    Session Id: 0x17d9
    Protocol next hop: 2.2.0.0
    Push 16
    Composite next hop: 0x25805988 - INH Session ID: 0x193c
    Indirect next hop: 0x23eea900 - INH Session ID: 0x193c Weight 0x1

    Protocol next hop: 2.3.0.0
    Push 16
    Composite next hop: 0x93463a0 1048575 INH Session ID: 0x17da
    Indirect next hop: 0x91e8800 1048574 INH Session ID: 0x17da Weight
0x4000
    State: <ForwardingOnly Int Ext>
    Inactive reason: Forwarding use only
    Age: 23                                Metric2: 35
    Validation State: unverified
    Task: RT
    AS path: I
    Communities: target:2:1

```

show route terse

List of Syntax [Syntax on page 329](#)
[Syntax \(EX Series Switches\) on page 329](#)

Syntax show route terse
 <logical-system (all | *logical-system-name*)>

Syntax (EX Series Switches) show route terse

Release Information Command introduced before Junos OS Release 7.4.
 Command introduced in Junos OS Release 9.0 for EX Series switches.

Description Display a high-level summary of the routes in the routing table.



NOTE: For BGP routes, the **show route terse** command displays the local preference attribute and MED instead of the metric1 and metric2 values. This is mostly due to historical reasons.

To display the metric1 and metric2 value of a BGP route, use the [show route extensive](#) command.

Options **none**—Display a high-level summary of the routes in the routing table.

logical-system (all | *logical-system-name*)—(Optional) Perform this operation on all logical systems or on a particular logical system.

Required Privilege Level view

List of Sample Output [show route terse on page 331](#)

Output Fields [Table 27 on page 329](#) describes the output fields for the **show route terse** command. Output fields are listed in the approximate order in which they appear.

Table 27: show route terse Output Fields

Field Name	Field Description
<i>routing-table-name</i>	Name of the routing table (for example, inet.0).
<i>number destinations</i>	Number of destinations for which there are routes in the routing table.
<i>number routes</i>	Number of routes in the routing table and total number of routes in the following states: <ul style="list-style-type: none"> active (routes that are active) holddown (routes that are in the pending state before being declared inactive) hidden (routes that are not used because of a routing policy)

Table 27: show route terse Output Fields (*continued*)

Field Name	Field Description
<i>route key</i>	<p>Key for the state of the route:</p> <ul style="list-style-type: none"> • +—A plus sign indicates the active route, which is the route installed from the routing table into the forwarding table. • -—A hyphen indicates the last active route. • *—An asterisk indicates that the route is both the active and the last active route. An asterisk before a to line indicates the best subpath to the route.
A	Active route. An asterisk (*) indicates this is the active route.
V	<p>Validation status of the route:</p> <ul style="list-style-type: none"> • ?—Not evaluated. Indicates that the route was not learned through BGP. • I—Invalid. Indicates that the prefix is found, but either the corresponding AS received from the EBGP peer is not the AS that appears in the database, or the prefix length in the BGP update message is longer than the maximum length permitted in the database. • N—Unknown. Indicates that the prefix is not among the prefixes or prefix ranges in the database. • V—Valid. Indicates that the prefix and autonomous system pair are found in the database.
Destination	Destination of the route.
P	<p>Protocol through which the route was learned:</p> <ul style="list-style-type: none"> • A—Aggregate • B—BGP • C—CCC • D—Direct • G—GMPLS • I—IS-IS • L—L2CKT, L2VPN, LDP, Local • K—Kernel • M—MPLS, MSDP • O—OSPF • P—PIM • R—RIP, RIPng • S—Static • T—Tunnel
Prf	<p>Preference value of the route. In every routing metric except for the BGP LocalPref attribute, a lesser value is preferred. In order to use common comparison routines, Junos OS stores the 1's complement of the LocalPref value in the Preference2 field. For example, if the LocalPref value for Route 1 is 100, the Preference2 value is -101. If the LocalPref value for Route 2 is 155, the Preference2 value is -156. Route 2 is preferred because it has a higher LocalPref value and a lower Preference2 value.</p>
Metric 1	First metric value in the route. For routes learned from BGP, this is the MED metric.
Metric 2	Second metric value in the route. For routes learned from BGP, this is the IGP metric.

Table 27: show route terse Output Fields (*continued*)

Field Name	Field Description
Next hop	Next hop to the destination. An angle bracket (>) indicates that the route is the selected route.
AS path	<p>AS path through which the route was learned. The letters at the end of the AS path indicate the path origin, providing an indication of the state of the route at the point at which the AS path originated:</p> <ul style="list-style-type: none"> I—IGP. E—EGP. ?—Incomplete; typically, the AS path was aggregated.

Sample Output

show route terse

```

user@host> show route terse
inet.0: 10 destinations, 12 routes (10 active, 0 holddown, 0 hidden)
+ = Active Route, - = Last Active, * = Both

A V Destination      P Prf  Metric 1  Metric 2  Next hop      AS path
* ? 1.0.1.1/32        0 10      1           >10.0.0.2      I
?                               B 170      100           >10.0.0.2      I
  unverified
* ? 1.1.1.1/32        D 0           >10.0.0.2      200 I
* V 2.2.0.2/32        B 170     110           >10.0.0.2
  valid
* ? 10.0.0.0/30       D 0           >1t-1/2/0.1    I
?                               B 170     100           >10.0.0.2
  unverified
* ? 10.0.0.1/32       L 0           Local          I
* ? 10.0.0.4/30       B 170     100           >10.0.0.2      I
  unverified
* ? 10.0.0.8/30       B 170     100           >10.0.0.2      I
  unverified
* I 172.16.1.1/32     B 170      90           >10.0.0.2      200 I
  invalid
* N 192.168.2.3/32    B 170     100           >10.0.0.2      200 I
  unknown
* ? 224.0.0.5/32      O 10      1           MultiRecv

```


PART 4

Index

- [Index on page 335](#)

Index

Symbols

#, comments in configuration statements.....	xii
(), in syntax descriptions.....	xii
< >, in syntax descriptions.....	xii
[], in configuration statements.....	xii
{ }, in configuration statements.....	xii
(pipe), in syntax descriptions.....	xii

A

active statement	
aggregate routes.....	37
generated routes.....	37
static routes.....	37
aggregate routes.....	38
aggregate statement.....	38
aggregator statement.....	40
alert (system logging severity level).....	98
all (tracing flag).....	146
AS path, displaying.....	155
AS paths	
distribution of, displaying.....	160
domain information, displaying.....	164
matching regular expressions, displaying.....	184
summary of, displaying.....	167
as-path statement.....	40
asm-override-ssm statement.....	42
ASN	
BGP community routes, displaying.....	191
ASs	
configuring.....	44
paths	
aggregate routes.....	40
generated routes.....	40, 59
static routes.....	40
authentication-key-chains statement.....	43
autonomous system number See ASN	
autonomous system paths See AS paths	
autonomous-system statement.....	44

B

backup-pe-group statement.....	46
--------------------------------	----

backups statement.....	47
bandwidth statement.....	48
best routes, displaying.....	186
bfd-liveness-detection statement	
static routes.....	49
BGP	
community ASN, displaying routes.....	191
community name, displaying routes.....	193
confederations.....	61
damping routes, displaying.....	195
outbound route filters	
interoperability.....	53
router identifier.....	127
BGP Monitoring Protocol.....	55
bgp-orf-cisco-mode statement.....	53
bmp statement.....	55
braces, in configuration statements.....	xii
brackets	
angle, in syntax descriptions.....	xii
square, in configuration statements.....	xii
brief statement.....	57

C

centralized ppm statement.....	58
clear ipv6 neighbors command.....	159
color statement	
aggregate routes.....	106
generated routes.....	106
static routes.....	106
comments, in configuration statements.....	xii
communities	
aggregate routes.....	59
static routes.....	59
community ASN, displaying routes.....	191
community name, displaying routes.....	193
community statement	
aggregate routes.....	59
generated routes.....	59
static routes.....	59
confederation statement.....	61
confederations.....	61
config-internal (tracing flag).....	146
conventions	
text and syntax.....	xi
critical (system logging severity level).....	98
curly braces, in configuration statements.....	xii
customer support.....	xiii
contacting JTAC.....	xiii

D

damping routes, BGP	
displaying.....	195
debug (system logging severity level).....	98
default gateway, static routing.....	13
defaults statement	
aggregate statement.....	38
generate statement.....	74
static statement.....	135
detection-time statement	
BFD.....	49
disable statement	
traceoption.....	146
discard statement	
aggregate routes.....	63
generated routes.....	63
documentation	
comments on.....	xiii

E

emergency (system logging severity level).....	98
enable statement	
routing options.....	83
error (system logging severity level).....	98
export route information, displaying.....	220
export statement	
forwarding table.....	64
export-rib statement.....	65

F

fate-sharing	
signaled LSPs.....	68
fate-sharing statement.....	68
flash (tracing flag).....	146
flow routes.....	69
flow statement.....	69
flow-map statement.....	70
font conventions.....	xi
forwarding table	
aggregate routes.....	57
generated routes.....	57
policy, routing.....	64
static routes.....	37, 81, 116
forwarding-cache statement	
flow maps.....	71
multicast.....	72
forwarding-table statement.....	73
full statement.....	57

G

general (tracing flag).....	146
generate statement.....	74
generated routes.....	74
graceful-restart statement.....	76
groups	
SSM.....	133

H

holddown-interval statement	
BFD	
static routes.....	49

I

import statement	
route resolution.....	77
import-policy statement.....	78
import-rib statement.....	79
indirect next hop.....	80
indirect-next-hop statement.....	80
info (system logging severity level).....	98
install statement.....	81
instance-export statement.....	82
instance-import statement.....	82
interface statement	
multicast.....	84
multicast via static routes.....	83
interface-routes statement.....	85
invalid routes, displaying.....	262
IPv6	
neighbor cache information	
clearing.....	159
displaying.....	169

K

kernel (tracing flag).....	146
----------------------------	-----

L

local-address statement.....	86
BFD.....	49
logging	
routing protocol process.....	98
LSPs	
fate-sharing.....	68

M

manuals	
comments on.....	xiii

mappings		
SSM.....	134	
martian addresses.....	87	
martians statement.....	87	
martians, displaying.....	262	
maximum-bandwidth statement.....	88	
maximum-paths statement.....	89	
maximum-prefixes statement.....	91	
med-igmp-update-interval statement.....	92	
metric statement		
aggregate routes.....	93	
generated routes.....	93	
static routes.....	93	
minimum-interval statement		
BFD.....	49	
minimum-receive-interval statement		
BFD.....	49	
minimum-receive-ttl statement		
BFD.....	49	
monitoring		
routing tables.....	153	
MPLS		
labels, displaying routes.....	257	
MSDP		
enabling.....	94	
msdp statement.....	94	
multicast		
scoping.....	129	
SSM groups.....	133	
SSM mapping.....	134	
multicast statement.....	96	
multiplier statement		
BFD.....	49	
N		
next hop		
address for static routes.....	14	
next hop, displaying.....	154	
next hops		
resolution database, displaying.....	298	
routes sent to, displaying.....	264	
no-adaptation statement		
BFD.....	49	
no-delegate-processing statement		
periodic packet management.....	104	
no-install statement.....	81	
no-qos-adjust statement.....	97	
no-readvertise statement.....	110	
no-retain statement.....	116	
normal (tracing flag).....	146	
notice (system logging severity level).....	98	
O		
options statement.....	98	
OSPF		
router identifier.....	127	
P		
parentheses, in syntax descriptions.....	xii	
parse (tracing flag).....	146	
passive statement		
aggregate routes.....	37	
generated routes.....	37	
static routes.....	37	
PIM		
RPs.....	111	
pim-to-igmp-proxy statement.....	99	
pim-to-mld-proxy statement.....	100	
policy (tracing flag).....	146	
policy statement		
aggregate routes.....	101	
flow map.....	102	
generated routes.....	101	
SSM map.....	103	
policy, routing		
forwarding table.....	64	
routing instance.....	82	
ppm statement.....	104, 105	
preference statement		
aggregate routes.....	106	
generated routes.....	106	
static routes.....	106	
preferences		
aggregate routes.....	106	
static routes.....	106	
prefix statement.....	107	
protocols		
originating, displaying.....	154	
Q		
qualified-next-hop statement.....	108	
R		
readvertise statement.....	110	
redundant-sources statement.....	111	
regex-parse (tracing flag).....	146	
register-probe-time statement.....	111	

regular expressions	
AS paths, displaying matching routes.....	184
reject option to static statement.....	135
resolution statement.....	112
resolution-ribs statement.....	113
resolve statement.....	114
restart-duration statement.....	115
retain statement.....	116
reverse-oif-mapping statement.....	117
rib statement	
route resolution.....	121
routing tables.....	119
rib-group statement.....	122
rib-groups statement.....	123
route	
static statement.....	135
route (tracing flag)	
routing.....	146
route distinguisher.....	125
route limit, configuring	
paths.....	89
prefix.....	91
route recording.....	126
route statement	
aggregate statement.....	38
generate statement.....	74
route, displaying	
next-hop.....	264
route-distinguisher-id statement.....	125
route-record statement.....	126
router identifier.....	127
router-id statement.....	127
routes, displaying	
active.....	171
active path.....	177
all.....	182
AS paths	
distribution of.....	160
domain information.....	164
regular expressions, matching.....	184
summary of.....	167
best.....	186
brief information.....	189
community ASN.....	191
community name.....	193
damping, BGP.....	195
detailed information.....	200
extensive information.....	223
flow validation.....	241
in a prefix range.....	285
in a specific routing table.....	314
inactive path.....	243
inactive prefix.....	247
instances.....	249
learned from a specific address.....	304
learned from a specific protocol.....	273
learned from snooping.....	301
LSP.....	260
martian.....	262
matching the specified address.....	218
MPLS labels.....	257
next-hop resolution.....	298
not associated with a community.....	270
policy-based route export.....	220
received through a neighbor.....	289
summary statistics.....	310
terse information.....	329
routing instances	
router identifier.....	125
routing tables	
creating.....	119
group.....	65, 79, 122, 123
import policy.....	78
policy, routing.....	82
routing-options statement.....	128
RPF check, multicast	
RPF policy.....	118
rpf-check-policy statement.....	118
S	
scope statement.....	129
scope-policy statement.....	130
scoping, multicast.....	129
with scope policy.....	130
show as-path command.....	160
show as-path domain command.....	164
show as-path summary command.....	167
show ipv6 neighbors command.....	169
show route active-path command.....	177
show route all command.....	182
show route aspath-regex command.....	184
show route best command.....	186
show route brief command.....	189
show route command.....	171
show route community command.....	191
show route community-name command.....	193
show route damping command.....	195
show route detail command.....	153, 200

show route exact command.....218
 show route export command.....220
 show route extensive command.....223
 show route flow validation command.....241
 show route inactive-path command.....243
 show route inactive-prefix command.....247
 show route instance command.....249
 show route label command.....257
 show route label-switched-path command.....260
 show route martians command.....262
 show route next-hop command.....264
 show route no-community command.....270
 show route protocol command.....273
 show route range command.....285
 show route receive-protocol command.....289
 show route resolution command.....298
 show route snooping command.....301
 show route source-gateway command.....304
 show route summary command.....310
 show route table command.....314
 show route terse command.....153, 329
 signaled LSPs
 fate-sharing.....68
 snooping routes, displaying.....301
 source gateway addresses, displaying.....304
 source statement
 SSM.....131
 source-routing statement.....132
 ssm-groups statement.....133
 ssm-map statement
 SSM.....134
 state (tracing flag)
 routing protocols.....146
 static routes.....135
 BFD.....49
 Configuration.....12
 Static Routes page
 field summary.....13
 static routing
 default gateway.....13
 static statement.....135
 subscriber-leave-timer statement.....141
 support, technical See technical support
 syntax conventions.....xi
 syslog statement
 routing options.....98
 system log messages
 routing protocol process.....98

T

tag statement.....142
 tags
 aggregate routes.....142
 generated routes.....142
 static routes.....142
 task (tracing flag).....146
 technical support
 contacting JTAC.....xiii
 threshold statement
 forwarding cache.....143
 timeout statement
 flow map.....144
 forwarding cache.....145
 timer (tracing flag).....146
 traceoptions statement
 nonstop active routing.....146
 routing protocols.....146
 tracing flags
 all.....146
 config-internal.....146
 flash.....146
 general.....146
 kernel.....146
 normal.....146
 parse.....146
 policy.....146
 regex-parse.....146
 route
 routing.....146
 state
 routing protocols.....146
 task.....146
 timer.....146
 tracing operations
 routing protocols.....146
 transmit-interval statement
 BFD.....49

U

upstream-interface statement.....149

V

version statement
 BFD.....49
 View Events page
 field summary (filtering log messages).....153

W

warning (system logging severity level).....98