
**Vendor:**Juniper

**Exam Code:**JN0-663

**Exam Name:**Service Provider Routing and Switching, Professional (JNCIP-SP)

**Version:**Demo

**QUESTION 1**

```
[edit routing-instances vpn-x]
user@router# show
instance-type l2vpn;
interface ge-1/0/1.513;
interface ge-1/0/1.512;
route-distinguisher 192.168.1.2:1;
vrf-import import-vpn-x;
vrf-export export-vpn-x;
protocols {
    l2vpn {
        encapsulation-type ethernet-vlan;
        site ce-a {
            site-identifier 2;
            interface ge-1/0/1.512;
            interface ge-1/0/1.513;;
        }
    }
}
```

You have the Layer 2 VPN configuration shown in the exhibit. You are asked to determine the remote site ID for ge-1/0/1.512.

In this scenario, what is the remote site ID?

A. 4

B. 5

C. 1

D. 3

Correct Answer: C

---

**QUESTION 2**

You want to allow the load balancing of traffic for an EBGP route from two different peers in the same AS. Which three actions are needed to accomplish this task? (Choose three.)

A. A policy to load-balance traffic should be applied to the forwarding table.

B. The multipath parameter should be configured under protocols BGP.

C. At least two interfaces should be connected to the same EBGP neighbor.

D. An equal cost AS path for the route is required.

E. The multihop parameter should be configured under protocols BGP.

Correct Answer: ABD

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**QUESTION 3**

```
[edit routing-instances]
user@PE-1# show
vpn=a {
    instance-type vrf;
    interface ge-1/1/4.0;
    route-distinguisher 192.168.1.1:1;
    vrf-target target:65111:101;
    protocols {
        bgp {
            group my-ext-group {
                type external;
                peer-as 65601;
                neighbor 10.0.10.2;
            }
        }
    }
}
```

You have an established Layer 3 VPN between two PE devices. You are asked to only send certain routes from PE-1 over the VPN to the remote site while maintaining all the routes on the PE-1 device. You created a policy that matches the specific routes and then tags these routes with the appropriate target community values.

In this scenario, which configuration changes must be made to satisfy the requirement?

A. Configure the export parameter and apply the policy to the my-ext-group BGP group configuration.

B. Configure the vrf-export parameter and apply the policy under the edit routing-instances vpn-a hierarchy.

C. Configure a RIB group and apply the policy as an import policy to routes distributed into the bgp.13vpn.0 routing table.

D. Configure the import parameter and apply the policy to the my-ext-group BGP group configuration.

Correct Answer: B

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**QUESTION 4**

Which statement is correct about BGP FlowSpec between a service provider\\'s PE router and a customer?

A. The flow routes received from a customer are limited to /32 masks for IPv4.

B. The NLRI received from a customer is stored in the flowspec.inet.0 table.

C. The RFC deterministic traffic filtering algorithm is used by default in Junos.

D. The NLRI received from a customer is stored in the inetflow.0 table.

Correct Answer: D

---

**QUESTION 5**

```
[edit policy-options policy-statement BGP-IMPORT]
user@router# show
term 0 {
    from {
        protocol bgp;
    }
}
term 1 {
    from protocol static;
    then accept;
}
term 2 {
    from protocol direct;
    then accept;
}
then reject;
```

You are troubleshooting a problem with a BGP peer where BGP routes are not being accepted from that peer.

Referring to the exhibit, which two statements are correct? (Choose two.)

A. Term 0 is missing a terminating action that allows BGP routes to be accepted.

B. Term 0 is missing a route-filter that specifies the allowed routes.

C. The reject at the end of the policy is preventing the routes from being accepted.

D. You cannot have terminating actions outside of terms.

Correct Answer: AC

---

**QUESTION 6**

You are asked to configure a series of interface policers and firewall filters, which include policers, on the same device. You must ensure that the two configuration methods do not conflict.

What are two considerations when performing this task? (Choose two.)

A. On inbound traffic, firewall filters are applied before interface policers.

B. On outbound traffic, interface policers are applied before firewall filters.

C. On outbound traffic, firewall filters are applied before interface policers.

D. On inbound traffic, interface policers are applied before firewall filters.

Correct Answer: CD

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**QUESTION 7**

```
user@R1> show configuration protocols evpn
encapsulation vxlan;
default-gateway no-gateway-community;
extended-vni-list all;

user@R1> show configuration switch-options
vtep-source-interface lo0.0;
route-distinguisher 192.168.101.2:65101;
vrf-import EVPN-IMPORT;
vrf-target {
    target:1:100;
    auto;
}

user@R2> show configuration protocols evpn
vni-options {
    vni 22030 {
        vrf-target target:65101:22030;
    }
}
encapsulation vxlan;
default-gateway no-gateway-community;
extended-vni-list all;

user@R2> show configuration switch-options
vtep-source-interface lo0.0;
route-distinguisher 192.168.101.2:65101;
vrf-target {
    target:1:100;
    auto;
```

You are using EVPN to provide Layer 2 stretched VLANs between two sites. You notice that the MAC addresses in either site are not showing up on the remote site.

Referring to the exhibit, what are two ways to solve this problem? (Choose two.)

A. On R1, issue the set switch-options vrf-target target:65101:22030 command.

B. On R2, issue the delete protocols evpn vni-options vni 22030 command.

C. On R2, issue the set switch-options vrf-target target:65101:22030 command.

D. On R1, issue the set protocols evpn vni-options vni 22030 vrf-target target :65101:22030 command.

Correct Answer: AC

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**QUESTION 8**

```
user@PE-1>show bgp neighbor 10.111.111.2
Peer: 10.111.111.2+65154 AS 65512 Local: 10.111.111.1+179 AS 65512
  Group:MBGP-INT              Routing-Instance: master
  Forwarding routing-instance: master
  Type: Internal    State: Established    Flags: <Sync>
  Last State: OpenConfirm   Last Event: RecvKeepAlive
  Last Error: None
  Options: <Preference LocalAddress AddressFamily Rib-group Refresh>
  Address families configured: inet-unicast inet-multicast inet-vpn-unicast inet-vpn-multicast inet6-unicast inet6-
multicast inet6-vpn-unicast inet6-vpn-multicast iso-vpn-unicast inet-mvpn inet6-mvpn evpn
  Local Address: 10.111.111.1 Holdtime: 90 Preference: 170
  Number of flaps: 0
  Peer ID: 10.111.111.2    Local ID: 10.111.111.1      Active Holdtime: 90
  Keepalive Interval: 30         Group index: 0    Peer index: 0     SNMP index: 2
  I/O Session Thread: bgpio-0 State: Enabled
  BFD: disabled, down
  NLRI for restart configured on peer: inet-unicast inet-multicast inet-vpn-unicast inet-vpn-multicast inet6-unicast
inet6-multicast inet6-vpn-unicast inet6-vpn-multicast iso-vpn-unicast inet-mvpn inet6-mvpn evpn
  NLRI advertised by peer: inet-unicast inet-multicast inet-vpn-unicast inet-vpn-multicast inet6-unicast inet6-multicast
12vpn inet6-vpn-unicast inet6-vpn-multicast iso-vpn-unicast inet-mvpn inet6-mvpn evpn
  NLRI for this session: inet-unicast inet-multicast inet-vpn-unicast inet-vpn-multicast inet6-unicast inet6-multicast
inet6-vpn-unicast inet6-vpn-multicast iso-vpn-unicast inet-mvpn inet6-mvpn evpn
  Peer supports Refresh capability (2)
  Stale routes from peer are kept for: 300
  Peer does not support Restarter functionality
  Restart flag received from the peer: Notification
  NLRI that restart is negotiated for: inet-unicast inet-multicast inet-vpn-unicast inet-vpn-multicast inet6-unicast
inet6-multicast inet6-vpn-unicast inet6-vpn-multicast iso-vpn-unicast inet-mvpn inet6-mvpn evpn
  NLRI of received end-of-rib markers: inet-unicast inet-multicast inet-vpn-unicast inet-vpn-multicast inet6-unicast
inet6-multicast inet6-vpn-unicast inet6-vpn-multicast iso-vpn-unicast inet-mvpn inet6-mvpn evpn
  NLRI of all end-of-rib markers sent: inet-unicast inet-multicast inet-vpn-unicast inet-vpn-multicast inet6-unicast
inet6-multicast inet6-vpn-unicast inet6-vpn-multicast iso-vpn-unicast inet-mvpn inet6-mvpn evpn
  Peer does not support LLGR Restarter functionality
  Peer supports 4 byte AS extension (peer-as 65512)
  Peer does not support Addpath
  Table inet.0 Bit: 20000
 ...
```

The exhibit shows a BGP peering session for two PE routers. The BGP session is up, but the hosts in the Layer 2 VPN that uses the BGP session are unable to communicate.

What is the problem in this situation?

A. The BGP peer does not support the add-path feature.

B. There is a mismatch in the supported NLRI address families between the BGP peers.

C. The local BGP router does not support Layer 2 VPN and Layer 3 VPN NLRI address families at the same time.

D. The BGP peer does not support the restarter functionality.

Correct Answer: B

---

**QUESTION 9**


```
users@R1> show ospf3 database inter-area-prefix detail

    OSPF3 database, Area 0.0.0.0
 Type       ID               Adv Rtr           Seq         Age   Cksum   Len
InterArPfx  0.0.0.11         172.16.1.1      0x80000001     4   0xaa9a  36
  Prefix 2001:db9:ffff:ff00::/64
  Prefix-options 0x0, Metric 0
InterArPfx  0.0.0.12         172.16.1.1      0x80000001     4   0x8c6e  44
  Prefix 2001:db9:ffff:ff00::1/128
  Prefix-options 0x0, Metric 0
InterArPfx  0.0.0.13         172.16.1.1      0x80000001     4   0xa899  36
  Prefix 2001:db9:ffff:ff01::/64
  Prefix-options 0x0, Metric 0
InterArPfx  0.0.0.14         172.16.1.1      0x80000001     4   0x8a6d  44
  Prefix 2001:db9:ffff:ff01::1/128
  Prefix-options 0x0, Metric 0
InterArPfx  0.0.0.15         172.16.1.1      0x80000001     4   0xa698  36
  Prefix 2001:db9:ffff:ff02::/64
  Prefix-options 0x0, Metric 0
InterArPfx  0.0.0.16         172.16.1.1      0x80000001     4   0x886c  44
  Prefix 2001:db9:ffff:ff02::1/128
  Prefix-options 0x0, Metric 0
InterArPfx  0.0.0.17         172.16.1.1      0x80000001     4   0xa497  36
  Prefix 2001:db9:ffff:ff03::/64
  Prefix-options 0x0, Metric 0
InterArPfx  0.0.0.18         172.16.1.1      0x80000001     4   0x866b  44
  Prefix 2001:db9:ffff:ff03::1/128
  Prefix-options 0x0, Metric 0
```

Referring to the exhibit, which command would reduce the size of the OSPF database and corresponding routes?

A.
```
user@R1# show protocols ospf3
area 0.0.0.1 {
    area-range 2001:db9:ffff:ff00::/62;
}
```

B.
```
user@R1# show policy-options policy-statement summary-2001
term 10 {
    from {
        route-filter 2001:db9:ffff:ff00::/62 prefix-length-range /64-/128;
    }
    then accept;
}
user@R1# show protocols ospf3
area 0.0.0.0 {
    inter-area-prefix-import summary-2001;
}
```

C.
```
user@R1# show policy-options policy-statement summary-2001
term 10 {
    from {
        route-filter 2001:db9:ffff:ff00::/62 prefix-length-range /64-/128;
    }
    then accept;
}
user@R1# show protocols ospf3
area 0.0.0.1 {
    inter-area-prefix-export summary-2001;
}
```

D.
```
user@R1# show protocols ospf3
area 0.0.0.1 {
    stub no-summaries;
}
```

A. Option A

B. Option B

C. Option C

D. Option D

Correct Answer: A

---

**QUESTION 10**

You are deploying a new EVPN service for your customers.

You must build the service based on the following requirements:

-both Layer 2 and Layer 3 functionality must be supported;

-your customers must be able to support multiple VLANs in the same EVPN instance (EVI).

In this scenario, which two types of routing instances should be configured? (Choose two.)

A. virtual switch

B. virtual router

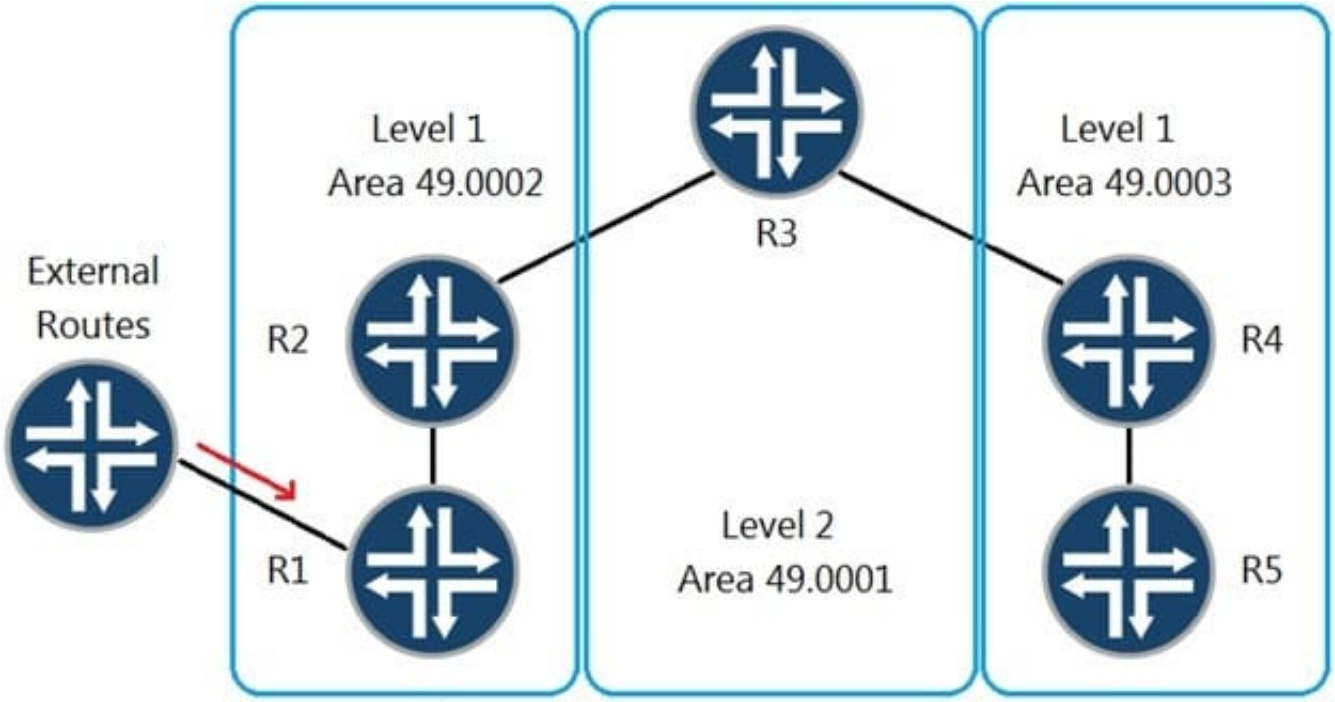
C. VRF

D. EVPN

Correct Answer: CD

---

**QUESTION 11**




Referring to the exhibit, external routes are being received at R1. These routes must appear on R5. Which action will produce this result?

A. Write an export policy on R4 from level 2 to level 1 matching the external routes.

B. Turn on wide metrics on R1 and R2 and write an export policy on R4 from level 2 to level 1 matching the external routes.

C. Write an export policy on R2 from level 1 to level 2 matching the external routes.

D. Turn on wide metrics on R4 and R5 and write an export policy on R2 from level 1 to level 2 matching the external routes.

Correct Answer: B

---

**QUESTION 12**

```
user@router# run show class-of-service rewrite-rule name
traffic-class
rewrite rule: traffic-class, code point type: exp, index:
58866
  Forwarding class           Loss Priority      Code Point
  best-effort                low                000
  best-effort                high               001
  expedited-forwarding       low                111
  expedited-forwarding       high               011
  assured-forwarding         low                100
  assured-forwarding         high               101
  network-control            low                110
  network-control            high               111
```

Your router should be configured with a rewrite rule which alters the default behavior of expedited forwarding as shown in the exhibit.

In this scenario, which configuration is correct?

A.

```
[edit class-of-service]
user@router# show
rewrite-rules {
    exp traffic-class {
        import best-effort;
        import assured-forwarding;
        import network-control;
        forwarding-class expedited-forwarding {
            loss-priority low code-point 111;
        }
    }
}
```

B.

```
[edit class-of-service]
user@router# show
rewrite-rules {
    exp traffic-class {
        import rewrite-rule best-effort;
        import rewrite-rule expedited-forwarding;
        import rewrite-rule assured-forwarding;
        import rewrite-rule network-control;
        forwarding-class expedited-forwarding {
            loss-priority low code-point 111;
        }
    }
}
```

C.

```
[edit class-of-service]
user@router# show
rewrite-rules {
    exp traffic-class {
        import best-effort;
        import assured-forwarding;
        import expedited-forwarding;
        import network-control;
        }
    }
}
```

D.

```
[edit class-of-service]
user@router# show
rewrite-rules {
    exp traffic-class {
        import default;
        forwarding-class expedited-forwarding {
            loss-priority low code-point 111;
        }
    }
}
```

A. Option A

B. Option B

C. Option C

D. Option D

Correct Answer: D