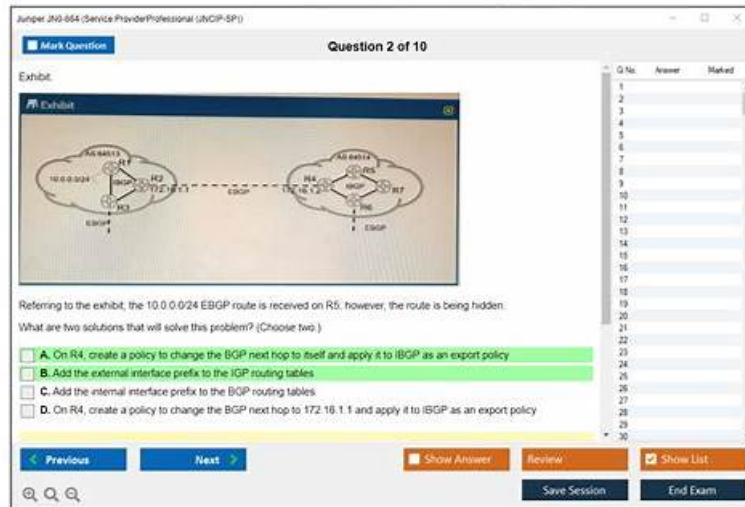


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Juniper JN0-664 Exam is designed to test the knowledge and skills of service provider professionals who work with Juniper Networks' technologies. Service Provider, Professional (JNCIP-SP) certification validates the understanding of service provider routing and switching technologies and their related platform configuration and troubleshooting skills.

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The JN0-664 Exam covers a wide range of topics related to service provider routing and switching technologies, including Border Gateway Protocol (BGP), Intermediate System to Intermediate System (IS-IS), Routing Information Protocol (RIP), and Open Shortest Path First (OSPF). Additionally, the exam also covers advanced topics such as multicast, MPLS, and layer 2 VPNs.

Juniper Service Provider, Professional (JNCIP-SP) Sample Questions (Q67-Q72):

NEW QUESTION # 67

In which two ways does OSPF prevent routing loops in multi-area networks? (Choose two.)

- A. All areas are required to connect to area 0.
- B. The LFA algorithm prunes all looped paths within an area.
- C. All areas are required to connect as a full mesh.
- D. The SPF algorithm prunes looped paths within an area.

Answer: A,D

Explanation:

Explanation

OSPF is an interior gateway protocol that uses link-state routing to exchange routing information among routers within a single autonomous system. OSPF prevents routing loops in multi-area networks by using two methods: area hierarchy and SPF algorithm. Area hierarchy is the concept of dividing a large OSPF network into smaller areas that are connected to a backbone area (area 0). This reduces the amount of routing information that each router has to store and process, and also limits the scope of link-state updates within each area. All areas are required to connect to area 0 either directly or through virtual links². SPF algorithm is the method that OSPF uses to calculate the shortest path to each destination in the network based on link-state information. The SPF algorithm runs on each router and builds a shortest-path tree that represents the topology of the network from the router's perspective. The SPF algorithm prunes looped paths within an area by choosing only one best path for each destination³.

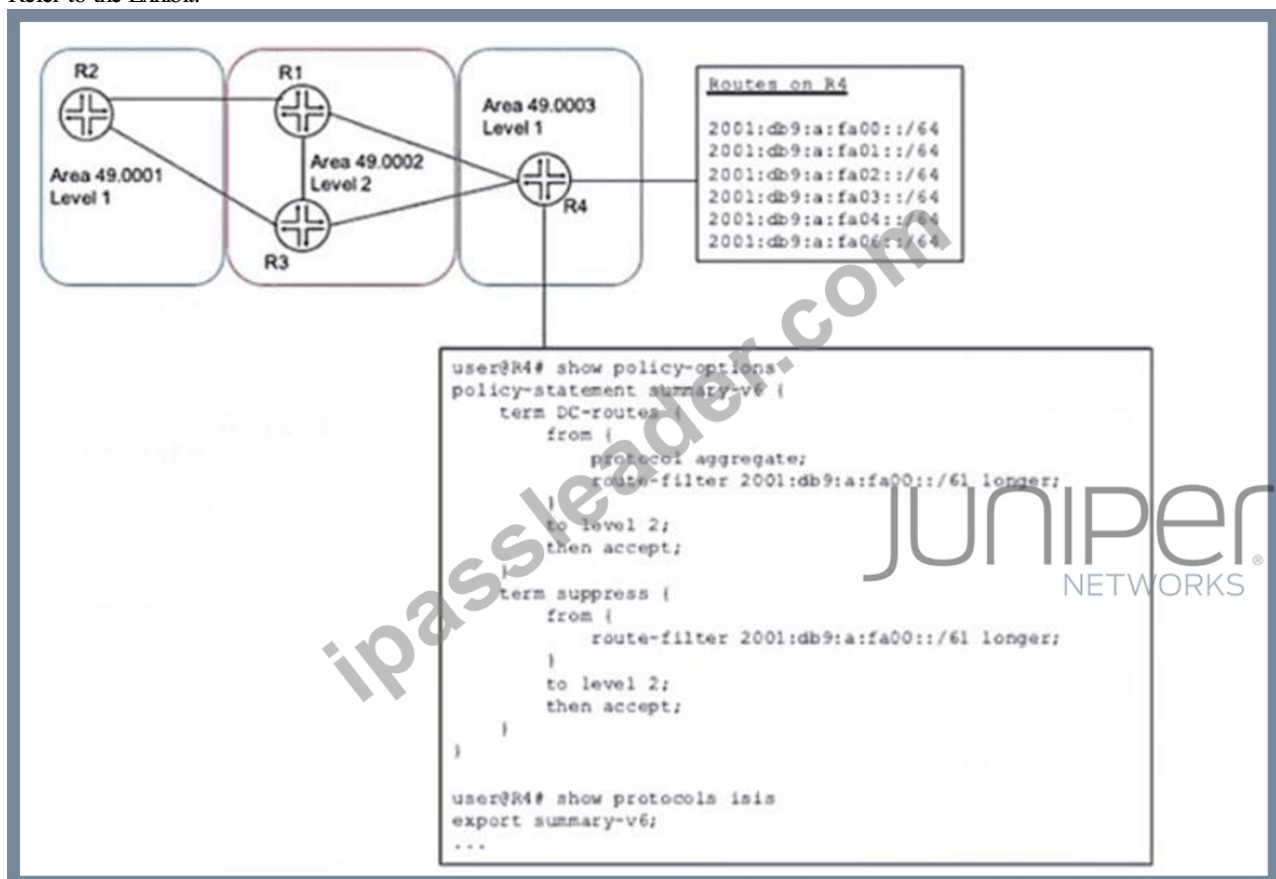
References: 2:

<https://www.juniper.net/documentation/us/en/software/junos/ospf/topics/concept/ospf-area-overview.html> 3:

<https://www.juniper.net/documentation/us/en/software/junos/ospf/topics/concept/ospf-spf-algorithm-overview.html>

NEW QUESTION # 68

Refer to the Exhibit:



A network designer would like to advertise a single summary route from R4 to IS-IS level 2 neighbors as shown in the exhibit, but the configuration is not working.

Which three configuration changes will accomplish this task? (Choose three.)

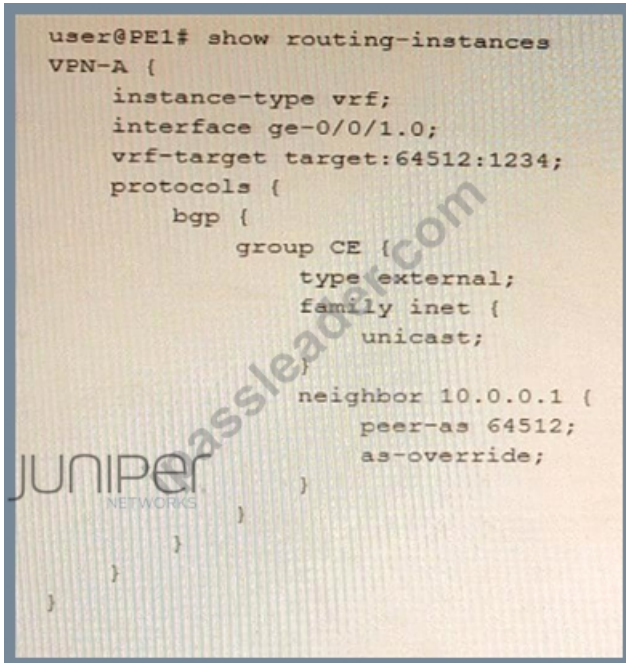
- A. set policy-options policy-statement summary-v6 term suppress then reject
- B. set policy-options policy-statement summary-v6 term DC-routes from route-filter 2001:db9:a:fa00::/61 exact
- C. set protocols isis import summary-v6
- D. delete protocols isis export summary-v6
- E. delete policy-options policy-statement summary-v6 term DC-routes from route-filter 2001:db9:a:fa00::/61

/61 longer

Answer: A,B,E

NEW QUESTION # 69

Exhibit



```
user@PE1# show routing-instances
VPN-A {
  instance-type vrf;
  interface ge-0/0/1.0;
  vrf-target target:64512:1234;
  protocols {
    bgp {
      group CE {
        type external;
        family inet {
          unicast;
        }
        neighbor 10.0.0.1 {
          peer-as 64512;
          as-override;
        }
      }
    }
  }
}
```

Which two statements about the configuration shown in the exhibit are correct? (Choose two.)

- A. A Layer 2 VPN is configured.
- **B. A Layer 3 VPN is configured.**
- C. This VPN connects customer sites that use the same AS number
- **D. This VPN connects customer sites that use different AS numbers.**

Answer: B,D

Explanation:

The configuration shown in the exhibit is for a Layer 3 VPN that connects customer sites that use different AS numbers. A Layer 3 VPN is a type of VPN that uses MPLS labels to forward packets across a provider network and BGP to exchange routing information between PE routers and CE routers. A Layer 3 VPN allows customers to use different routing protocols and AS numbers at their sites, as long as they can peer with BGP at the PE-CE interface. In this example, CE-1 is using AS 65530 and CE-2 is using AS 65531, but they can still communicate through the VPN because they have BGP sessions with PE-1 and PE-2, respectively.

NEW QUESTION # 70

Which two statements are correct about VPLS tunnels? (Choose two.)

- **A. BGP-signaled VPLS tunnels can use either RSVP or LDP between the PE routers.**
- B. LDP-signaled VPLS tunnels use auto-discovery to provision sites
- **C. LDP-signaled VPLS tunnels only support control bit 0.**
- D. BGP-signaled VPLS tunnels require manual provisioning of sites.

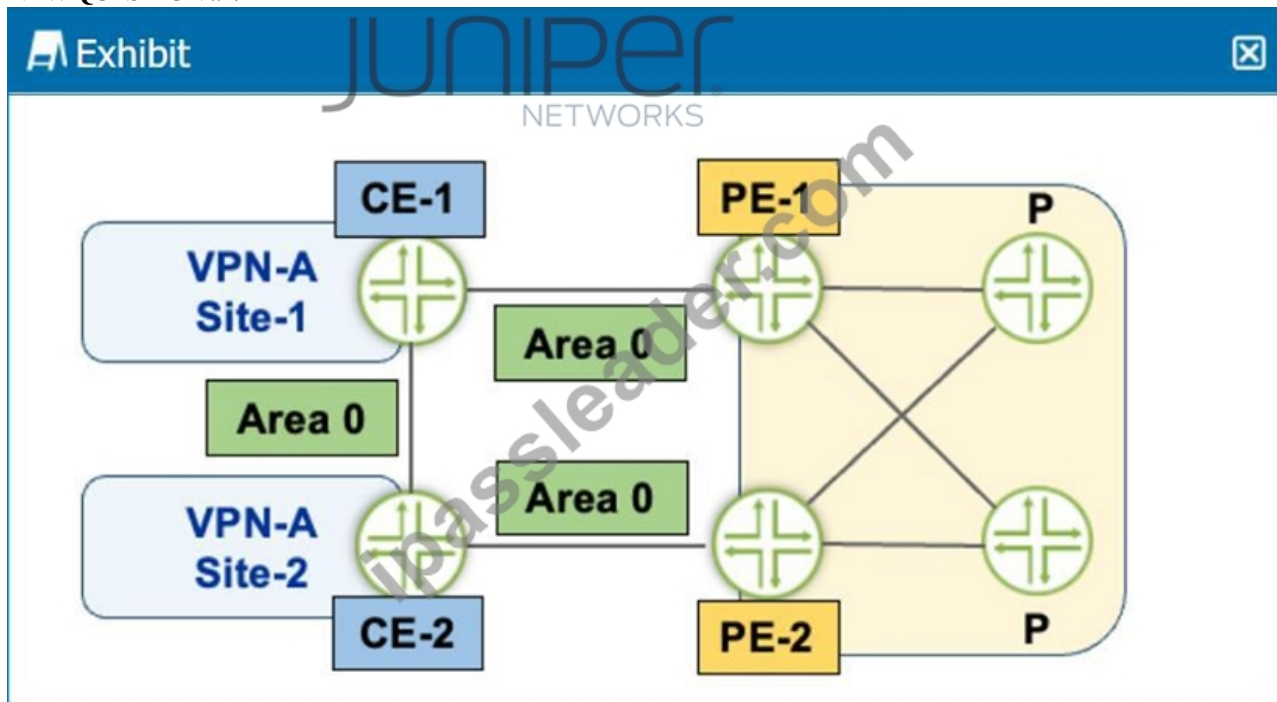
Answer: A,C

Explanation:

<https://www.juniper.net/documentation/us/en/software/ncf/feature-guide-virtual-private-lan-service/topics/task/vpls-ldp-signaling-solutions.html>

https://www.juniper.net/documentation/us/en/software/junos/vpn-l2/topics/concept/vpns-configuring-vpls-routing-instances.html#id-11510150__id-11568648

NEW QUESTION # 71



Click the Exhibit button.

Referring to the exhibit, the PE-to-CE protocol being used is OSPF for the L3VPN. Also, there is an OSPF neighborhood between CE-1 and CE-2.

Which statement is correct in this situation?

- A. Hosts at Site-1 will reach hosts at Site-2 through the L3VPN by default.
- B. You must set a high metric on the CE-1 to CE-2 link for hosts at Site-1 to use the L3VPN to reach hosts at Site-2.
- **C. Hosts at Site-1 will reach hosts at Site-2 through the CE-1 and CE-2 link by default.**
- D. You must set a high metric on the CE-1 to PE-1 link for hosts at Site-1 to use the CE-1 to CE-2 link to reach hosts at Site-2.

Answer: C

Explanation:

In the exhibit, the PE-to-CE protocol used is OSPF, and there is an OSPF neighborhood between CE-1 and CE-2 within the same Area 0. Let's analyze the default OSPF routing behavior in this setup to determine the correct statement.

1. ****OSPF Neighborhood****:

- CE-1 and CE-2 have an OSPF neighborhood directly within Area 0.

- OSPF prefers intra-area routes over inter-area and external routes.

2. ****Default Routing Behavior****:

- Since CE-1 and CE-2 are directly connected through an OSPF link within the same area, OSPF will prefer this direct intra-area path over any other paths learned via the PE routers and the L3VPN.

- This is because intra-area routes have a lower metric compared to inter-area or external routes.

3. ****Metric Considerations****:

- By default, OSPF will route traffic between Site-1 and Site-2 through the direct link between CE-1 and CE-2, unless the link's metric is artificially increased to make it less preferable.

- There is no need to adjust metrics for the CE-1 to PE-1 link to prefer the CE-1 to CE-2 path, as OSPF already prefers direct intra-area paths.

****Conclusion****:

Given the default behavior of OSPF and the topology shown in the exhibit, the correct statement is:

****B. Hosts at Site-1 will reach hosts at Site-2 through the CE-1 and CE-2 link by default.****

****References****:

- OSPF Design Guide: [Juniper Networks OSPF Design

Guide](https://www.juniper.net/documentation/en_US/junos/topics/concept/ospf-design-overview.html)

- Juniper Networks Technical Documentation on OSPF: [Junos OS OSPF Configuration Guide]

(https://www.juniper.net/documentation/en_US/junos/topics/concept/ospf-routing-overview.html)

NEW QUESTION # 72

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