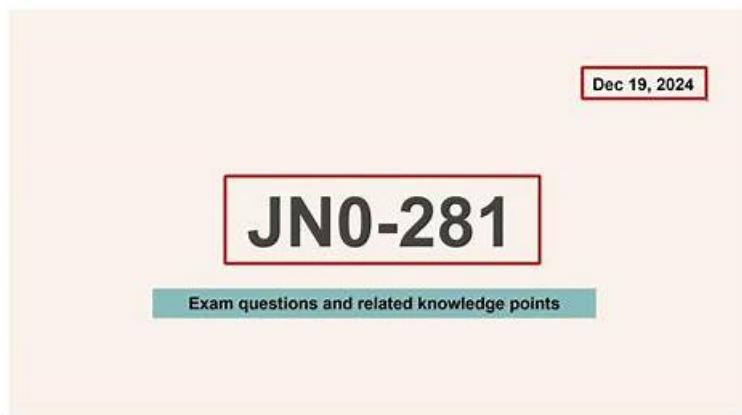


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Juniper JN0-281 Exam Syllabus Topics:

Topic	Details
Topic 1	<ul style="list-style-type: none">Protocol-Independent Routing: This section of the exam measures the skills of a Routing Engineer and covers routing features that function independently of any specific protocol. It includes static, aggregate, and generated routes, along with the concept of martian addresses. Routing instances and Routing Information Base (RIB) groups are introduced, as well as techniques like load balancing and filter-based forwarding. Configuration, monitoring, and troubleshooting aspects of these routing components are also covered in this section.
Topic 2	<ul style="list-style-type: none">Data Center Architectures: This section of the exam measures the skills of a Data Center Architect and covers foundational knowledge about various data center designs. It includes traditional multilayer architectures as well as more modern IP fabric architectures using spine-leaf topologies. The section also touches on Layer 2 and Layer 3 strategies for forwarding traffic, the differences between overlay and underlay networks, and introduces Ethernet VPN–Virtual Extensible LAN (EVPN-VXLAN), explaining its basic purpose and role in data center environments.
Topic 3	<ul style="list-style-type: none">High Availability: This section of the exam measures the skills of a Data Center Reliability Engineer and covers strategies to ensure continuous network availability. It includes features like Link Aggregation Groups (LAG), Graceful Restart (GR), Bidirectional Forwarding Detection (BFD), and Virtual Chassis. It also provides a basic understanding of how to configure, monitor, and troubleshoot each of these high-availability components to maintain resilient network performance.
Topic 4	<ul style="list-style-type: none">Data Center Routing Protocols BGPOSPF: This section of the exam measures skills of a Network Operations Specialist and covers the operation and key concepts of the OSPF protocol. It explains elements such as the link-state database, OSPF packet types, and router IDs, including how adjacencies and designated routers work within areas. The section then transitions to BGP, outlining its basic operations, message types, attributes, and the path selection process. It also discusses both IBGP and EBGP roles. Lastly, the section reviews how to configure, monitor, and troubleshoot OSPF and BGP using routing policies and various tools.

Topic 5	<ul style="list-style-type: none"> Layer 2 Switching and VLANs: This section of the exam measures the skills of a Network Support Engineer and covers the essential concepts of Layer 2 switching operations within Junos OS. It includes an overview of Ethernet switching and bridging, providing an understanding of how Layer 2 networks function. The section also introduces VLAN concepts, focusing on port modes, VLAN tagging methods, and the purpose of Integrated Routing and Bridging (IRB). It further explores the practical side by addressing how to configure, monitor, and troubleshoot both Layer 2 switching and VLANs.
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Juniper Data Center, Associate (JNCIA-DC) Sample Questions (Q76-Q81):

NEW QUESTION # 76

How does a layer 2 switch populate its bridge table?

- A. It stores the destination MAC address of frames traversing the network.
- B. It stores the protocol number of frames traversing the network.
- C. It stores the source MAC address of frames traversing the network.**
- D. It stores both the source and destination MAC addresses of frames traversing the network.

Answer: C

NEW QUESTION # 77

Exhibit:



The exhibit shows a Juniper configuration snippet for OSPF BFD settings. The code is as follows:

```

[edit protocols ospf]
user@router# show
area 0.0.0.0 {
    interface xe-0/0/4.0 {
        bfd-liveness-detection {
            minimum-interval 400;
            multiplier 5;
        }
    }
}

```

Referring to the exhibit, at which interval will the interface be considered down if no hello packets are received?

- A. 400 seconds
- B. 400 milliseconds
- C. 2000 seconds
- D. 2000 milliseconds**

Answer: D

Explanation:

The exhibit shows the configuration of Bidirectional Forwarding Detection (BFD) for OSPF on interface xe-0/0/4.0, with the following parameters: minimum-interval: 400 milliseconds multiplier: 5 Step-by-Step Breakdown:

BFD Liveness Detection:

BFD is used to detect link failures at sub-second intervals, providing faster convergence times for routing protocols like OSPF. The minimum-interval is the time between BFD control packets (in milliseconds), and the multiplier indicates how many missed BFD packets trigger a failure.

Calculating Failure Detection Time:

The failure detection interval is calculated as:

Failure Interval=minimum-interval×multiplier
Failure Interval = $\text{minimum-interval} \times \text{multiplier}$

In this case:

$400 \text{ milliseconds} \times 5 = 2000 \text{ milliseconds (2 seconds)}$

$400 \text{ milliseconds} \times 5 = 2000 \text{ milliseconds (2 seconds)}$ Conclusion:

If no BFD control packets are received within 2000 milliseconds (2 seconds), the interface will be considered down, triggering OSPF to recalculate routes. Juniper Reference: BFD Configuration: BFD parameters such as minimum-interval and multiplier are used to fine-tune the failure detection time for faster convergence.

NEW QUESTION # 78

When using spine and leaf fabric architectures, what is the role of each device? (Choose two.)

- A. Leaf nodes are used for traffic to other leafs.
- B. Spine nodes are used for host connectivity.
- C. Spine nodes are used for transit to other leaf nodes.
- D. Leaf nodes are used for host connectivity.

Answer: C,D

Explanation:

In a spine-leaf fabric architecture, which is commonly used in data center designs, each device has a distinct role to ensure efficient and scalable network traffic flow. Step-by-Step Breakdown:

Spine Nodes:

The spine nodes form the backbone of the fabric and are responsible for transit traffic between leaf nodes. They connect to every leaf switch and provide multiple paths for traffic between leaf nodes, ensuring redundancy and load balancing.

Leaf Nodes:

The leaf nodes are used for host connectivity. These switches connect to servers, storage, or edge routers. They also connect to the spine switches to reach other leaf switches. Juniper Reference: Spine-Leaf Architecture: In Juniper's IP fabric designs, spine switches handle inter-leaf communication, while leaf switches manage host and endpoint connectivity.

NEW QUESTION # 79

Under which Junos hierarchy is a static route configured?

- A. protocols
- B. routing-options
- C. routing-instances
- D. system

Answer: B

NEW QUESTION # 80

You are troubleshooting a downed BGP session.

```
user@router> show bgp summary | match "AS|Connect|Active"
Peer          AS      InPkt  OutPkt  OutQ   Flaps Last Up/Dwn
State|#Active/Received/Accepted/Damped...
10.10.55.2      1111      0       0      10 1w0d 3:51:17 Connect
```

Referring to the exhibit, what is the cause of the problem?

- A. The local peer has sent an Update message but not received one from the remote peer.
- B. The UDP session between the peers has not been established.
- C. The local peer has sent an Open message but not received one from the remote peer.
- D. The TCP session between the peers has not been established.**

Answer: D

Explanation:

The BGP session in the exhibit shows the state as Connect, which indicates that the TCP session between the BGP peers has not been fully established. Step-by-Step Breakdown:

BGP State "Connect":

The Connect state is the second stage in the BGP finite state machine (FSM). At this stage, BGP is trying to establish a TCP session with the peer, but the session has not yet been successfully established.

A successful TCP three-way handshake (SYN, SYN-ACK, ACK) is required before BGP can progress to the OpenSent state, where the peers exchange BGP Open messages.

Possible Causes:

A firewall blocking TCP port 179.

Incorrect IP addresses or network connectivity issues between the BGP peers. Juniper Reference: BGP Troubleshooting: In Junos, if a BGP session is stuck in the Connect state, the issue is likely due to a failure in establishing the underlying TCP connection.

NEW QUESTION # 81

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