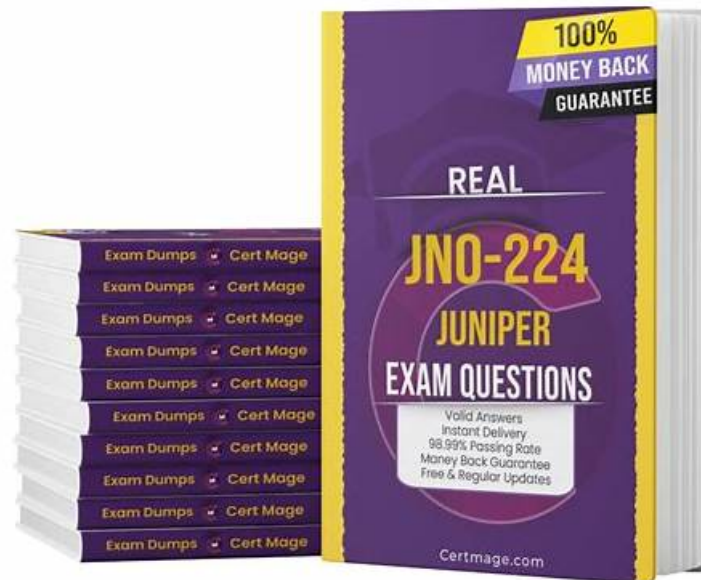


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Juniper JN0-281 Exam Syllabus Topics:

Topic	Details
Topic 1	<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 multitier 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 2	<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 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"> • 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.
Topic 5	<ul style="list-style-type: none"> • Data Center Routing Protocols BGP • OSPF: 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.

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Juniper Data Center, Associate (JNCIA-DC) Sample Questions (Q56-Q61):

NEW QUESTION # 56

What are two consequences of having all network devices in a single collision domain? (Choose two.)

- A. The chance of packet collision is decreased.
- B. The amount of network resource consumption is increased.
- C. The chance of packet collision is increased.
- D. The amount of network resource consumption does not change.

Answer: B,C

Explanation:

A collision domain is a network segment where data packets can "collide" with one another when being sent on the same network medium.

Step-by-Step Breakdown:

Increased Collision Probability:

If all devices are in a single collision domain, the likelihood of packet collisions increases as more devices attempt to send packets simultaneously, leading to network inefficiencies.

Increased Resource Consumption:

More collisions result in increased network resource consumption as devices need to retransmit packets, causing higher utilization of bandwidth and slowing down network performance. Juniper Reference: Collision Domains: Proper network segmentation using switches reduces collision domains, thereby improving network performance and reducing packet collisions.

NEW QUESTION # 57

Which two statements are correct about VLAN tags? (Choose two.)

- A. VLAN tags carry a VLAN ID and priority.
- B. VLAN tags require multiple forwarding tables.
- C. VLAN tags can be inserted or removed by trunk interfaces.
- D. VLAN tags are required on access ports.

Answer: A,C

Explanation:

VLAN tags are used in Ethernet frames to identify and differentiate traffic between multiple VLANs. They are especially important for devices like switches that handle multiple VLANs on the same physical link.

Step-by-Step Breakdown:

VLAN Tag Contents:

VLAN ID: The tag contains a 12-bit VLAN ID field that identifies the VLAN to which the frame belongs.

Priority: The tag also includes a 3-bit priority field (also known as 802.1p priority) used for QoS (Quality of Service) to prioritize traffic.

Trunk Ports and VLAN Tagging:

Trunk Ports are used to carry traffic for multiple VLANs across a single link. These interfaces insert (tag) VLAN identifiers into frames when they leave the switch and remove (untag) them when frames enter the switch.

Access Ports:

VLAN tags are typically not used on access ports (ports that connect to end devices) since those ports are configured to be part of a single VLAN, and the traffic doesn't need VLAN tags.

Juniper Reference:

VLAN Tagging: Juniper switches support VLAN tagging and ensure that frames are tagged or untagged as they traverse trunk or access ports, respectively.

NEW QUESTION # 58

You are configuring an aggregate route. In this scenario, which two statements are correct? (Choose two.)

- A. Reject will silently drop the traffic.
- B. Discard will send an ICMP Destination Unreachable message back to the sender.
- C. Reject will send an ICMP Destination Unreachable message back to the sender.
- D. Discard will silently drop the traffic.

Answer: C,D

Explanation:

When configuring an aggregate route, you have options for how to handle traffic that matches the route but does not match any more specific route in the routing table.

Two actions can be taken:

discard and reject.

Step-by-Step Breakdown:

Discard:

The discard option will silently drop packets that match the aggregate route. No notification is sent to the sender, and the packet is simply dropped.

Reject:

The reject option will drop the packet and also send an ICMP Destination Unreachable message back to the sender. This informs the sender that the packet could not be delivered because there is no specific route available.

Juniper

Reference: Aggregate Routes: The reject and discard next-hop options provide different levels of feedback when packets cannot be routed, and they can be used to control how unreachable destinations are handled.

NEW QUESTION # 59

How does OSPF calculate the best path to a particular prefix?

- A. It finds the path with the numerically lowest route preference.
- B. It finds the path with the least number of hops.
- C. It finds the path with the numerically lowest cost.

- D. It finds the path with the shortest autonomous system path.

Answer: C

Explanation:

OSPF (Open Shortest Path First) calculates the best path based on the cost of the route, which is derived from the bandwidth of the interfaces along the path.

Step-by-Step Breakdown:

OSPF Path Selection:

OSPF assigns a cost to each link, typically based on the link's bandwidth (higher bandwidth equals lower cost).

The OSPF algorithm computes the shortest path to a destination by adding the costs of all links in the path. The path with the numerically lowest total cost is chosen as the best path. Cost Calculation:

The OSPF cost can be manually adjusted or automatically calculated using the default formula: $\text{Cost} = \frac{\text{Reference Bandwidth}}{\text{Link Bandwidth}}$ Cost = Link Bandwidth / Reference Bandwidth

Juniper Reference: OSPF Best Path Selection: OSPF selects the path with the lowest cumulative cost, ensuring efficient use of higher-bandwidth links in Junos networks.

NEW QUESTION # 60

Referring to the exhibit, how many milliseconds will pass before the BGP neighbor is considered dead?

```
[edit]
user@router# show protocols bgp
group internal-peers {
  type internal;
  local-address 192.168.6.5;
  export send-direct;
  bfd-liveness-detection {
    minimum-interval 1000;
  }
  neighbor 192.168.6.4;
  neighbor 192.168.40.4;
}
```

- A. 3000ms
- B. 2000ms
- C. 9000ms
- D. 1000ms

Answer: A

NEW QUESTION # 61

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