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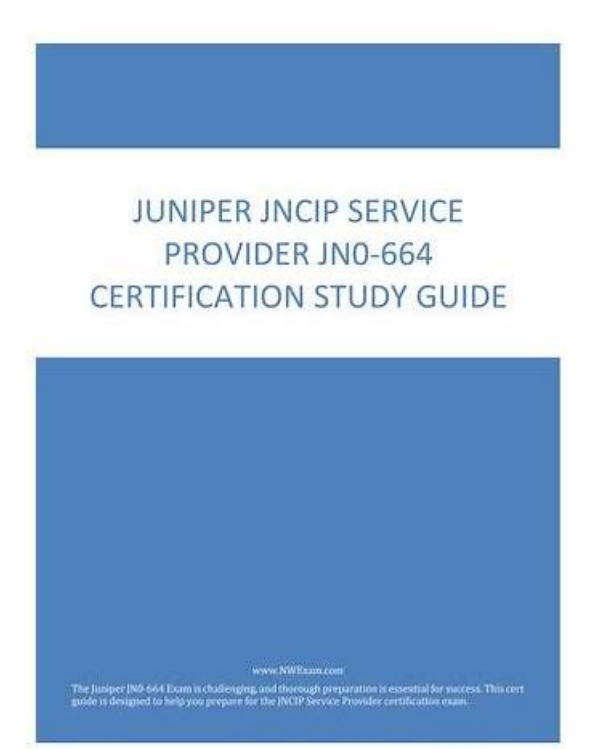

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Juniper JN0-664 Exam covers a wide range of topics related to Service Provider Routing and Switching. It includes areas such as OSPF, BGP, MPLS, Layer 2 and Layer 3 VPNs, multicast, and more. Candidates who take JN0-664 exam are expected to have a solid understanding of these topics and their practical applications.

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Juniper JN0-664 (Service Provider, Professional (JNCIP-SP)) Certification Exam is a professional-level certification exam offered by Juniper Networks. JN0-664 exam is designed for networking professionals who have a solid understanding of networking technologies and are looking to further enhance their skills in the service provider environment. The JN0-664 Exam is a comprehensive test that covers a wide range of topics including routing protocols, MPLS, L2VPN, L3VPN, multicast, and other service provider technologies.

Juniper Service Provider, Professional (JNCIP-SP) Sample Questions (Q21-Q26):

NEW QUESTION # 21
You are configuring schedulers to define the class-of-service properties of output queues. You want to control packet drops during periods of congestion.
In this scenario, which CoS configuration parameter would be used to accomplish this task?

- A. priority
- B. buffer size
- C. drop profile
- D. shaping rate

Answer: C

Explanation:
When configuring Class of Service (CoS) properties for output queues, we need to manage packet drops during periods of congestion. Juniper's CoS framework provides several tools to manage congestion, including drop profiles, buffer sizes, and scheduling mechanisms. Let's break down each option and identify the correct one.
Evaluating the Answer Choices
 D. drop profile (Correct Answer)
Why?
A drop profile defines when packets should be dropped based on the queue fill level.
Random Early Detection (RED) or Tail Drop can be used to manage congestion by discarding lower-priority packets first.
Drop profiles are configured under the scheduler to determine how aggressive packet dropping should be during congestion.
Example Juniper Configuration:
schedulers {
best-effort {
drop-profile low-drop;
}
}
drop-profiles {
low-drop {
fill-level 80 drop-probability 50;
}
}
fill-level 80 → When the queue reaches 80% full, packet drops begin.
drop-probability 50 → There is a 50% chance of dropping packets once the threshold is reached.
Official Juniper Documentation Reference:
Junos Class of Service Configuration Guide
"A drop profile determines how packets are discarded based on the queue fill level, allowing control over congestion behavior."
Why the Other Options Are Incorrect?
 A. buffer size (Incorrect)
Why?
The buffer size determines how many packets the queue can store before congestion occurs.
A larger buffer can delay drops, but it does not actively control dropping behavior.
It affects latency rather than controlling packet drops.
 B. priority (Incorrect)
Why?
Priority controls which queue gets serviced first, not how drops are handled.
Higher priority queues are serviced before lower-priority queues, but this does not prevent congestion-related drops.

 C. shaping rate (Incorrect)
Why?
Shaping limits the maximum transmission rate of the queue.
While shaping helps reduce congestion, it does not control which packets get dropped during congestion.
Shaping is useful for traffic smoothing, but it does not actively drop packets based on queue fill levels.
Final answer: D. drop profile
Controls packet drops based on queue congestion.
Defines RED (Random Early Detection) or Tail Drop mechanisms.
Directly influences drop probability as the queue fills up.
Official Juniper Reference:
"Drop profiles are used to manage congestion by determining when and how aggressively packets are dropped based on queue fill level."

NEW QUESTION # 22
When using OSPFv3 for an IPv4 environment, which statement is correct?

- A. OSPFv3 supports IPv4 only on interfaces with family inet6 defined
- B. OSPFv3 is not backward compatible with IPv4
- C. OSPFv3 only supports IPv4.
- D. OSPFv3 supports both IPv6 and IPv4, but not in the same routing instance.

Answer: B

Explanation:
Explanation
OSPFv3 is an extension of OSPFv2 that supports IPv6 routing and addressing. OSPFv3 is not backward compatible with IPv4 because it uses a different packet format and a different link-state advertisement (LSA) structure than OSPFv2. OSPFv3 also uses IPv6 link-local addresses as router IDs and neighbor addresses, instead of IPv4 addresses. To use OSPFv3 for an IPv4 environment, you need to enable the IPv4 unicast address family under [edit protocols ospf3] hierarchy level and configure IPv4 addresses on the interfaces.

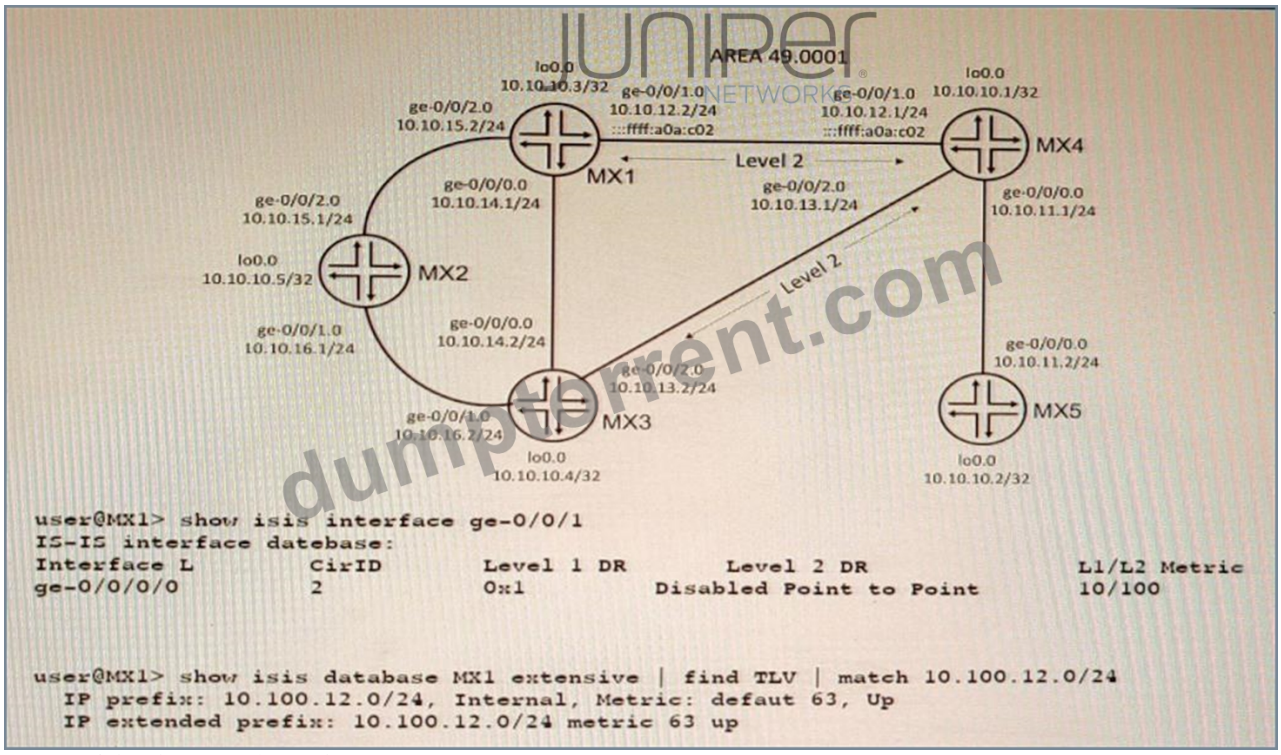
NEW QUESTION # 23
In which two ways does OSPF prevent routing loops in multi-area networks? (Choose two.)

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

Answer: B,D

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.ht

NEW QUESTION # 24
Exhibit



A network is using IS-IS for routing.
In this scenario, why are there two TLVs shown in the exhibit?

- A. There are both narrow and wide metric devices in the topology
- B. Both IPv4 and IPv6 are being used in the topology
- C. The interface specified a metric of 100 for L2.
- D. Wide metrics have specifically been requested

Answer: A

Explanation:
Explanation
TLVs are tuples of (Type, Length, Value) that can be advertised in IS-IS packets. TLVs can carry different kinds of information in the Link State Packets (LSPs). IS-IS supports both narrow and wide metrics for link costs. Narrow metrics use a single octet to encode the link cost, while wide metrics use three octets. Narrow metrics have a maximum value of 63, while wide metrics have a maximum value of 16777215. If there are both narrow and wide metric devices in the topology, IS-IS will advertise two TLVs for each link: one with the narrow metric and one with the wide metric. This allows backward compatibility with older devices that only support narrow metrics12.

NEW QUESTION # 25
You have an L2VPN connecting two CEs across a provider network. The CEs and provider network are configured with the default MTU setting. You use the ping command from one CE to the other CE with a size of 1500 bytes.
In this scenario, which statement is correct when using the ping command?

- A. You expect an echo reply.
- B. You expect the ping results to be fragmented.
- C. You expect a silent discard.
- D. You expect an ICMP message too long error.

Answer: C

Explanation:
Layer 2 VPNs don't support fragmentation in the provider network. It is critical that the provider network supports the largest frame that the CE devices can generate after the MPLS and virtual routing and forwarding (VRF) labels are added by the PE devices. This example leaves the CE devices at the default 1500-byte maximum transmission unit (MTU) while configuring the provider core to support a 4000 byte MTU. This configuration avoids discards by ensuring the CE devices cannot exceed the MTU in the provider's network.

NEW QUESTION # 26

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