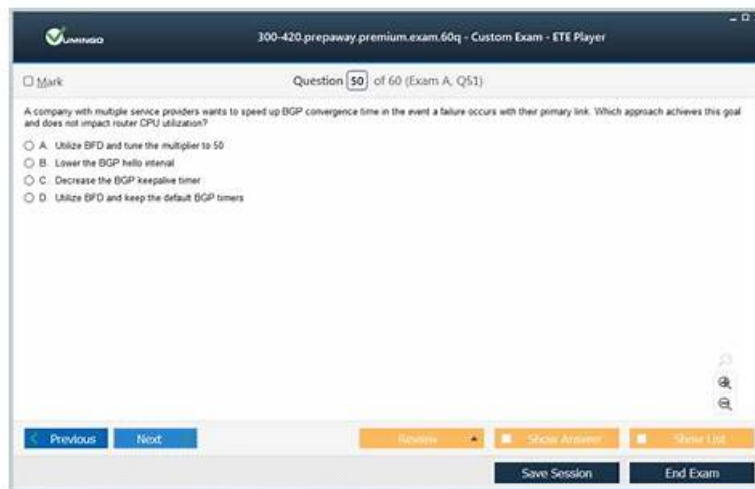


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Cisco Designing Cisco Enterprise Networks Sample Questions (Q314-Q319):

NEW QUESTION # 314

Which requirement should an engineer consider when planning the underlay network for an SD-Access Architecture environment?

- A. Endpoints must be included in the underlay network.
- B. Two or more switches are necessary in the network to avoid spanning-tree loops.
- C. A routing protocol must be implemented to establish IP connectivity between network devices.

- D. CEF must be disabled in the underlay network.

Answer: C

Explanation:

The SD-Access underlay must run a routing protocol to establish IP connectivity between infrastructure devices. Cisco SD-Access uses a routed underlay to provide basic reachability among fabric edge nodes, border nodes, control-plane nodes, and intermediate nodes. Cisco design documentation states that all network elements in the fabric underlay must have IP connectivity through routing. Catalyst Center LAN Automation commonly deploys IS-IS for this purpose, although the underlay can be built manually with another supported routing design. The user endpoints and client subnets are not part of the underlay; they belong to the overlay, where fabric services, segmentation, and policy are applied. CEF should not be disabled, because efficient IP forwarding is necessary for the routed underlay. Two or more switches are not required merely to avoid spanning-tree loops; the SD-Access underlay is normally Layer 3 routed and avoids large Layer 2 loop domains. Reference topics: Cisco SD-Access underlay, routed access, LAN Automation, IS-IS, fabric node reachability.

NEW QUESTION # 315

Which node performs the LISP Map-Server and Map-Resolver functions in the Cisco SD-Access network architecture?

- A. intermediate node
- **B. control plane node**
- C. border node
- D. fabric edge node

Answer: B

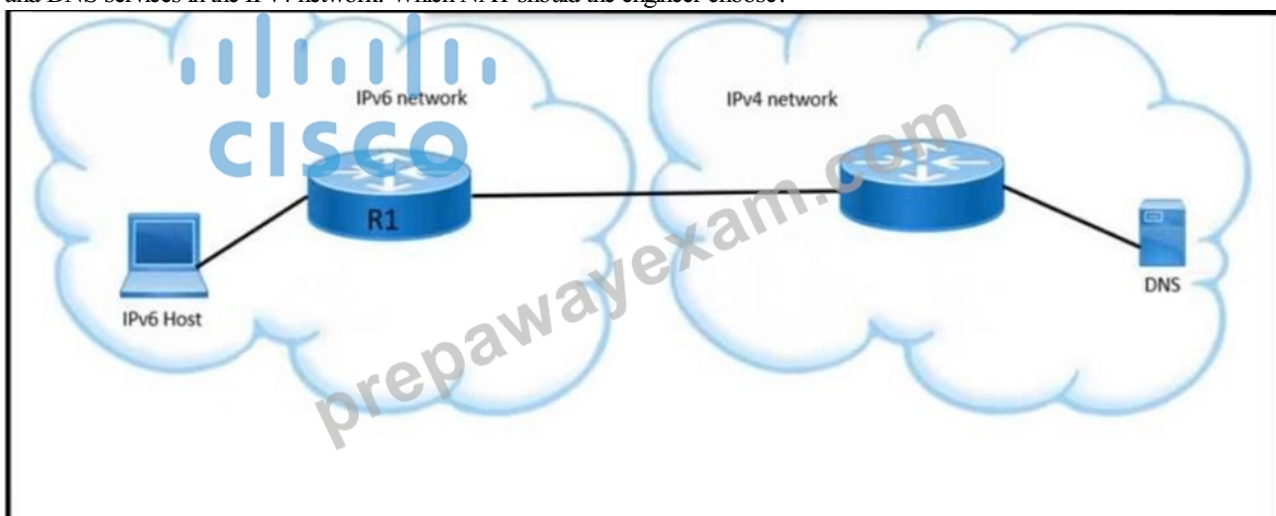
Explanation:

The SD-Access control-plane node performs the LISP Map-Server and Map-Resolver functions. Cisco SD-Access uses LISP in the control plane to maintain mappings between endpoint identifiers and routing locators.

Fabric edge nodes discover local endpoints and register them with the control-plane node. When a destination endpoint is not known locally, a fabric node queries the control-plane node, which resolves the endpoint location and returns the locator information needed for VXLAN forwarding through the fabric. This is why the control-plane node is the correct answer. A fabric edge node connects endpoints, provides the anycast gateway, encapsulates and decapsulates user traffic, and registers endpoints. A border node connects the fabric to external networks. An intermediate node simply transports routed underlay traffic between fabric nodes and does not hold endpoint mappings. In design terms, control-plane placement and redundancy are critical because endpoint mobility, fabric forwarding lookup, and location resolution depend on stable Map-Server and Map-Resolver services. Reference topics: Cisco SD-Access control plane, LISP Map-Server, LISP Map-Resolver, EID-to-RLOC mapping, fabric edge registration.

NEW QUESTION # 316

Refer to the exhibit. An engineer must connect the IPv6 island to the IPv4-only network to provide IPv6 hosts access to file servers and DNS services in the IPv4 network. Which NAT should the engineer choose?



- A. static NAT-PT
- B. stateful NAT66

- C. dynamic NAT-PT
- D. stateless NAT66

Answer: C

NEW QUESTION # 317

Prior to establishing full-mesh IPsec tunnels in a typical Cisco SD-WAN deployment, which mechanism do WAN Edge routers use to exchange key information for data plane encryption?

- A. They use vSmart controllers as key exchange servers.
- B. They use vManage as a key exchange server.
- C. They use IKEv2 when exchanging keys with each other.
- D. They use vBond as a key exchange server.

Answer: A

Explanation:

Cisco SD-WAN uses vSmart controllers as key exchange servers to establish and manage IPsec tunnels between WAN Edge routers. The vSmart controllers generate and distribute cryptographic keys to the WAN Edge routers, which are then used to encrypt and decrypt traffic over the IPsec tunnels.

<https://www.cisco.com/c/en/us/td/docs/routers/sdwan/configuration/security/vedge/security-book.pdf>

NEW QUESTION # 318

Which NETCONF operation creates filtering that is specific to the session notifications?

- A. < commit >
- B. < logging >
- C. < create-subscription >
- D. < notification >

Answer: C

Explanation:

NETCONF supports event notifications through a subscription model. The operation used to establish a notification subscription is create-subscription. When a client sends this operation, it can specify the stream and optional filters that determine which notifications are delivered to that NETCONF session. This is why create-subscription is the operation associated with session-specific notification filtering. The commit operation is used with the candidate configuration datastore to apply configuration changes to the running datastore; it does not create a telemetry or event subscription. The notification element is the message sent by the server after a subscription exists, not the operation used to create one. Logging is not a NETCONF operation in the protocol operation set. In Cisco model-driven management designs, NETCONF provides structured configuration and operational access using YANG data models, while notifications allow the management station to consume specific events without relying on repeated screen scraping or broad polling.

Therefore, the correct operation for creating filtering specific to session notifications is create-subscription.

NEW QUESTION # 319

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