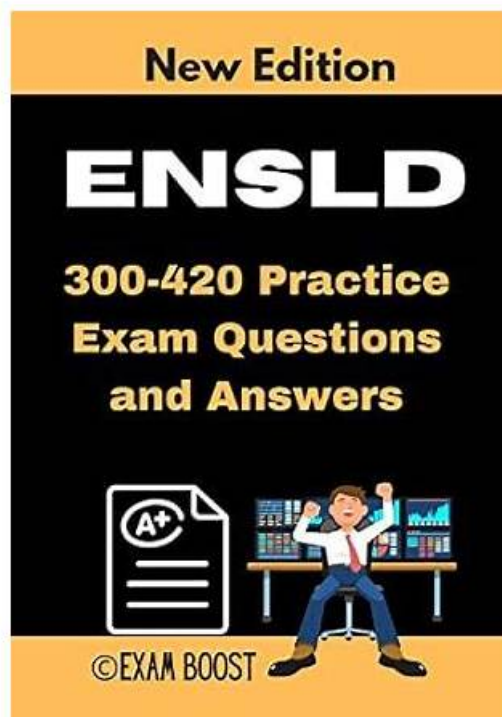


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Cisco 300-420 Exam Topics:

Section	Weight	Objectives
Automation	10%	<ul style="list-style-type: none">- Choose the correct YANG data model set based on requirements-Differentiate between IETF, Openconfig, and Cisco native YANG models-Differentiate between NETCONF and RESTCONF-Describe the impact of model-driven telemetry on the network<ul style="list-style-type: none">• Periodic publication• On-change publication-Compare dial-in and dial-out approaches to model-driven telemetry

Advanced Enterprise Campus Networks	25%	<ul style="list-style-type: none"> - Design campus networks for high availability <ul style="list-style-type: none"> • First Hop Redundancy Protocols • Platform abstraction techniques • Graceful restart • BFD -Design campus Layer 2 infrastructures <ul style="list-style-type: none"> • STP scalability • Fast convergence • Loop-free technologies • PoE and WoL -Design multicampus Layer 3 infrastructures <ul style="list-style-type: none"> • Convergence • Load sharing • Route summarization • Route filtering • VRFs • Optimal topologies • Redistribution -Describe SD-Access Architecture (underlay, overlay, control and data plane, automation, wireless, and security) -Describe SD-Access fabric design considerations for wired and wireless access (overlay, fabric design, control plan design, border design, segmentation, virtual networks, scalability, over the top and fabric for wireless, multicast)
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Cisco Designing Cisco Enterprise Networks Sample Questions (Q246-Q251):

NEW QUESTION # 246

What is the purpose of a control plane node in a Cisco SD-Access network fabric?

- A. to act as the network gateway between the network fabric and outside networks
- B. to maintain the endpoint database and mapping between endpoints and edge nodes
- C. to identify and authenticate endpoints within the network fabric
- D. to detect endpoints in the fabric and inform the host tracking database of EID-to-fabric-edge node bindings

Answer: D

Explanation:

Explanation

<https://www.cisco.com/c/en/us/td/docs/solutions/CVD/Campus/cisco-sda-design-guide.html>

NEW QUESTION # 247

Refer to the exhibit. An architect is designing an ISIS network for a customer migrating from IPv4 to IPv6. The current network uses narrow metrics, and the IPv6 areas will increase to 10 within the next two years. Also, IPv6 traffic must not blackhole in IPv4

network during the migration.

Which two solutions must the architect choose? (Choose two.)



- A. multi-topology enabled under address-family ipv6 on C1 and C2
- B. metric-style transition enabled on E1 and E2
- C. metric-style transition enabled on C1 and C2
- D. multi-topology enabled under address-family ipv6 on E1 and E2
- E. metric-style transition enabled on all routers

Answer: A,C

NEW QUESTION # 248

Drag and drop the characteristics from the left onto the correct telemetry mode on the right.

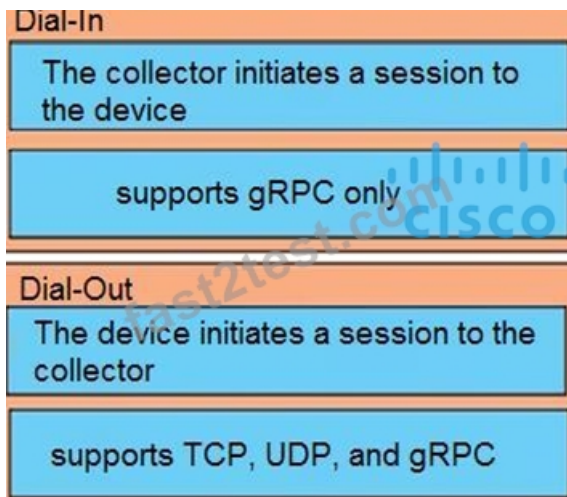
The collector initiates a session to the device	Dial-In
supports TCP, UDP, and gRPC	
The device initiates a session to the collector	
supports gRPC only	Dial-Out

Answer:

Explanation:

The collector initiates a session to the device	Dial-In
supports TCP, UDP, and gRPC	The collector initiates a session to the device
The device initiates a session to the collector	supports gRPC only
supports gRPC only	Dial-Out
	The device initiates a session to the collector
	supports TCP, UDP, and gRPC

Explanation



In a dial-in mode, the destination initiates a session to the router and subscribes to data to be streamed. Dialin mode is supported over gRPC in only 64-bit platforms. In a dial-out mode, the router initiates a session to the destinations based on the subscription. All 64-bit IOS XR platforms (except for NCS 6000 series routers) support gRPC and TCP protocols. All 32-bit IOS XR platforms support only TCP.

NEW QUESTION # 249

Which feature minimizes HOC connections and reduces strain on the vSmart controller in an SD-WAN architecture?

- A. color
- B. control-connections
- C. affinity
- D. controlWirection

Answer: C

NEW QUESTION # 250

Which function do reverse path forwarding mechanisms perform in a multicast deployment?

- A. They prevent loops and duplicate packets.
- B. They send PIM prune message toward multicast sources.
- C. They eliminate overlapping multicast addresses
- D. They notify the upstream router of multicast traffic.

Answer: A

Explanation:

Reverse path forwarding (RPF) mechanisms are used to prevent loops and duplicate packets in multicast deployments [1]. The RPF check verifies that all multicast traffic received on a router is sourced from the expected direction, ensuring that multicast traffic is not looped back in the network. The RPF check works by comparing the source IP address of a multicast packet with the routing table, and only forwarding it if it matches the expected entry.

NEW QUESTION # 251

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