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**Vendor:** Cisco

**Exam Code:** 300-420

**Exam Name:** Designing Cisco Enterprise Networks (ENSLD)

**Certification:** CCNP Enterprise

**Total Questions:** 395 Q&A ( [View Details](#) )

**Updated on:** Feb 24, 2026

**Question 1:**

Which are two advantages of a “one switch at a time” approach to integrating SD-Access into an existing brown field environment? (Choose two.)

- A. appropriate for campus and remote site environments
- B. allows simplified roll back
- C. involves the least risk of all approaches
- D. opens up many new design and deployment opportunities
- E. ideal for protecting recent investments while upgrading legacy hardware
- F. allows simplified testing prior to cutover

Correct Answer: AE

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**Question 2:**

An engineer must design a VPN solution for a company that has multiple branches connecting to a main office. What are two advantages of using DMVPN instead of IPsec tunnels to accomplish this task? (Choose two.)

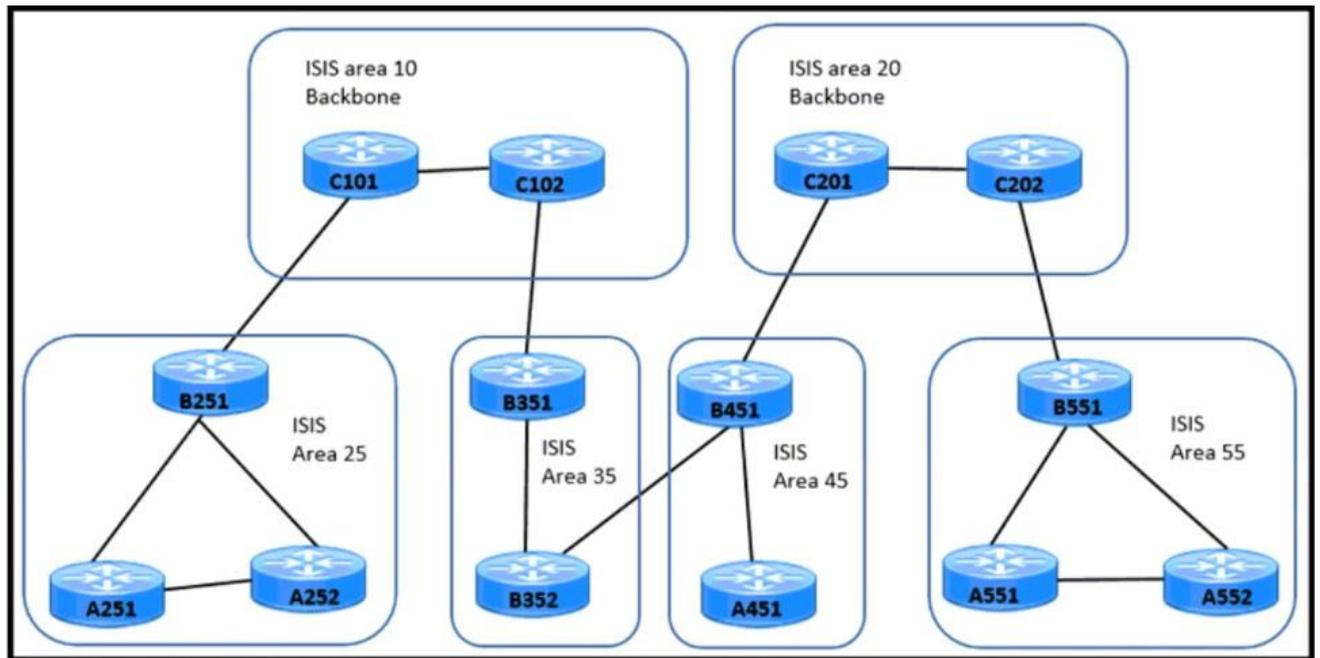
- A. support for AES 256-bit encryption
- B. greater scalability
- C. support for anycast gateway
- D. lower traffic overhead
- E. dynamic spoke-to-spoke tunnels

Correct Answer: BE

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**Question 3:**

Refer to the exhibit.



An engineer is designing a hierarchical ISIS solution for an enterprise customer with these requirements:

Users in areas 25 and 55 send and receive traffic from both backbone areas.

Link flaps in areas 35 and 45 must not impact other areas.

Routers will double within the next 12 months in areas 35 and 45.

Which design must the engineer select?

- A. A series routers Level 2, B series routers Level 2, and C series routers Level 1
- B. A series routers Level 1/2, B series routers Level 1/2, and C series routers Level 1/2
- C. A series routers Level 1/2, B series routers Level 2, and C series routers Level 2
- D. A series routers Level 1, B series routers Level 1/2, and C series routers Level 2

Correct Answer: D

**Question 4:**

Which topology within a network underlay eliminates the need for first hop redundancy protocols while improving fault tolerance, increasing resiliency, and simplifying the network?

- A. virtualized topology
- B. routed access topology
- C. Layer 2 topology

D. logical fabric topology

Correct Answer: B

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**Question 5:**

An organization plans to deploy multicast across two different autonomous systems. Their solution must allow RPs to:

1.  
discover active sources outside their domain
2.  
use the underlying routing information for connectivity with other RPs
3.  
announce sources joining the group

Which solution supports these requirements?

- A. SSM
- B. MSDP
- C. PIM-DM
- D. PIM-SM

Correct Answer: B

Reference:

[https://www.cisco.com/c/en/us/td/docs/switches/lan/catalyst9500/software/release/16-10/configuration\\_guide/ip\\_mcast\\_rtng/b\\_1610\\_ip\\_mcast\\_rtng\\_9500\\_cg/b\\_1610\\_ip\\_mcast\\_rtng\\_9500\\_cg\\_chapter\\_010001.pdf](https://www.cisco.com/c/en/us/td/docs/switches/lan/catalyst9500/software/release/16-10/configuration_guide/ip_mcast_rtng/b_1610_ip_mcast_rtng_9500_cg/b_1610_ip_mcast_rtng_9500_cg_chapter_010001.pdf)

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**Question 6:**

A customer is discussing QoS requirements with a network consultant. The customer has specified that end-to-end path verification is a requirement. Which QoS solution meets this requirement?

- A. IntServ model with RSVP to support the traffic flows
- B. DiffServ model with PHB to support the traffic flows
- C. marking traffic at the access layer with DSCP to support the traffic flows

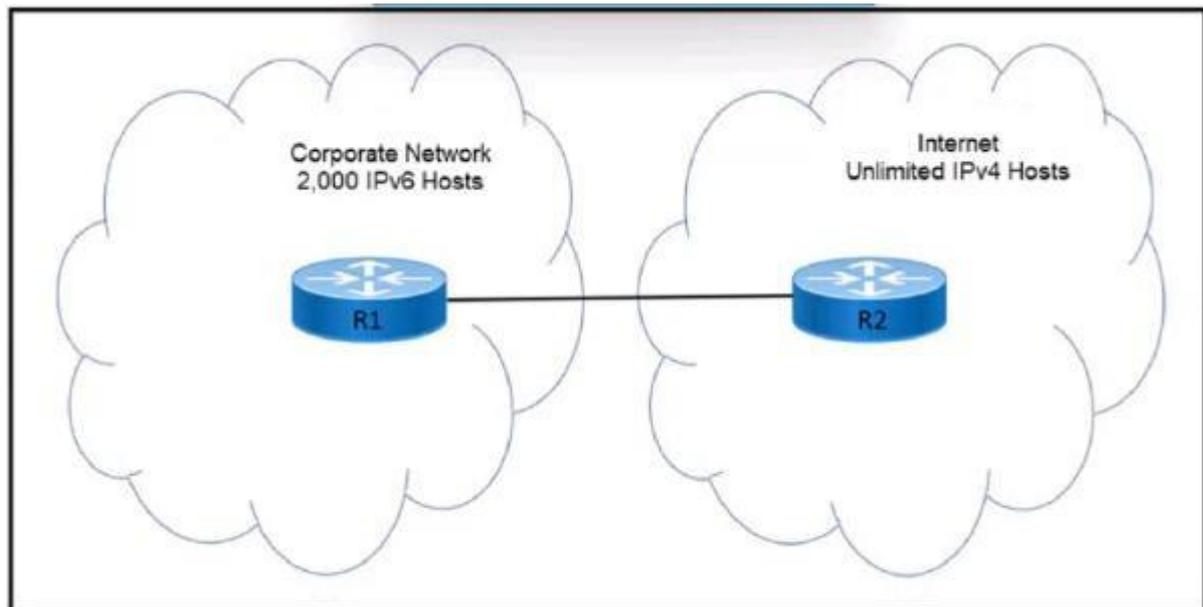
D. marking traffic at the access layer with CoS to support the traffic flows

Correct Answer: A

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**Question 7:**

Refer to the exhibit.



An engineer must design an address translation solution to provide Internet connectivity for the corporate network. The design is restricted to the 172.16.168.0/22 subnet. Which solution must the engineer choose?

- A. stateful NAT64
- B. stateless NAT64
- C. stateful NAT66
- D. stateless NAT66

Correct Answer: C

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**Question 8:**

What is the purpose of the RPF check in multicast routing?

- A. to ensure that multicast packets are forwarded if they arrived on the interface used to route traffic back to the source address

- B. to ensure that multicast packets are dropped if they arrived on the interface used to route traffic to the destination address
- C. to ensure that multicast packets are forwarded if they arrived on the interface used to route traffic to the destination address
- D. to ensure that multicast packets are dropped if they arrived on the interface used to route traffic back to the source address
- E. to ensure that multicast packets, no matter the interface they arrived on, are forwarded out all interfaces

Correct Answer: A

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**Question 9:**

Which Cisco vEdge router offers 20 Gb of encrypted throughput?

- A. Cisco vEdge 2000
- B. Cisco vEdge 100
- C. Cisco vEdge 5000
- D. Cisco vEdge 1000

Correct Answer: C

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**Question 10:**

Which is a function of the Proactive Insights feature of Cisco DNA Center Assurance?

- A. enabling you to quickly view all of the contextual information related to a single user
- B. generating synthetic traffic to perform tests that raise awareness of potential network issues
- C. enabling you to see the complete path of packets from the client to the end application
- D. pointing out where the most serious issues are happening in the network

Correct Answer: B

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**Question 11:**

Refer to the exhibit.

```
Switch(config)# interface gig0/2
Switch(config-if)# switchport port-security
Switch(config-if)# switchport port-security maximum 1
Switch(config-if)# switchport port-security mac-address 00-d0-ba-11-21-31
Switch(config-if)# switchport port-security violation shutdown
Switch(config-if)#end
```

A Cisco Catalyst switch is configured to allow only one MAC address to be learned manually on interface gig0/2. Which command must be run to dynamically learn the devices that are connected to the switch port?

- A. switchport port-security mac-address sticky
- B. switchport port-security mac-address auto
- C. switchport port-security aging
- D. switchport port-security maximum 1 auto

Correct Answer: A

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**Question 12:**

An engineer is working with NETCONF and Cisco NX-OS based devices. The engineer needs a YANG model that supports a specific feature relevant only to Cisco NX-OS. Which model must the engineer choose?

- A. Native
- B. IEEE
- C. OpenConfig
- D. IETF

Correct Answer: A

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**Question 13:**

An architect must address sustained congestion on the access and distribution uplink of network. QoS has already been implemented and optimized, but it is no longer effective in ensuring optimal network performance. Which two solutions should the architect use to improve network performance? (Choose two)

- A. Reconfigure QoS based on the IntServ model
- B. Utilize random early detection to manage queues

- C. Implement higher-speed uplink interfaces
- D. Bundle additional uplinks into logical EtherChannels
- E. Configure selective packet discard to drop noncritical network traffic.

Correct Answer: CD

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**Question 14:**

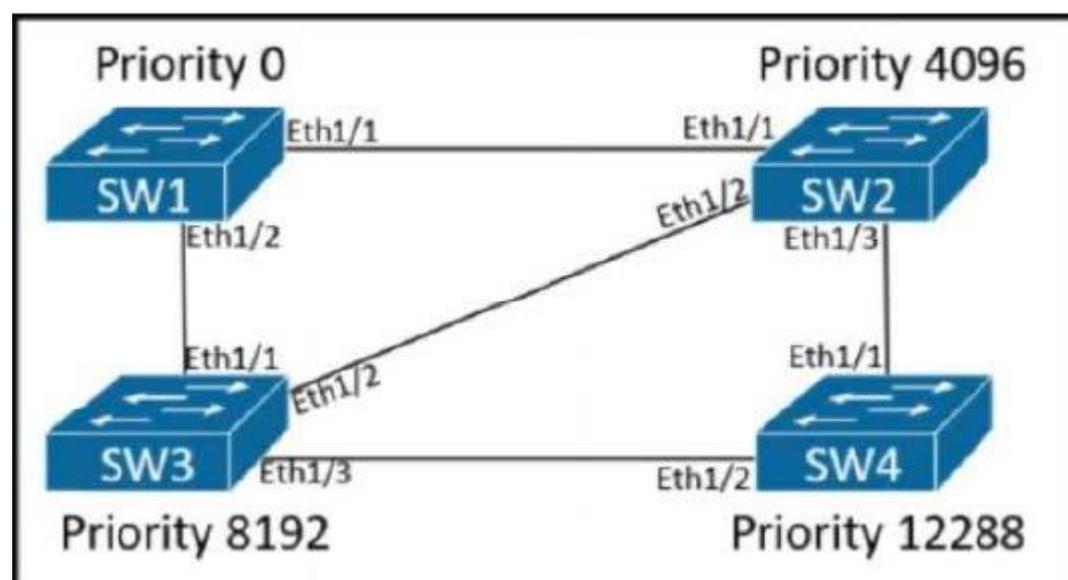
What are two characteristics of a migration from an IP-VPN service to a Cisco SD-WAN architecture? (Choose two.)

- A. distributed control plane
- B. increased security
- C. increased scalability
- D. centralized application policies
- E. increased solution complexity

Correct Answer: CD

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**Question 15:**



Refer to the exhibit. An engineer proposed this solution for a company that requires a loop-free, Layer 2 network design. The network will run 802.1w, and all links will be 1 Gbps.

If all interfaces are up as point-to-point adjacencies, what are the expected port end states based on the design?

- A. Eth1/2 on SW3 and SW4 will be in an Altn BLK state
- B. Eth1/3 on SW2 and SW3 will be in an Altn BLK state
- C. Eth1/2 on SW2 and SW3 will be in a Desg FWD state
- D. Eth1/1 on SW1 and SW2 will be in a Root FWD state

Correct Answer: A