



# 400-007<sup>Q&As</sup>

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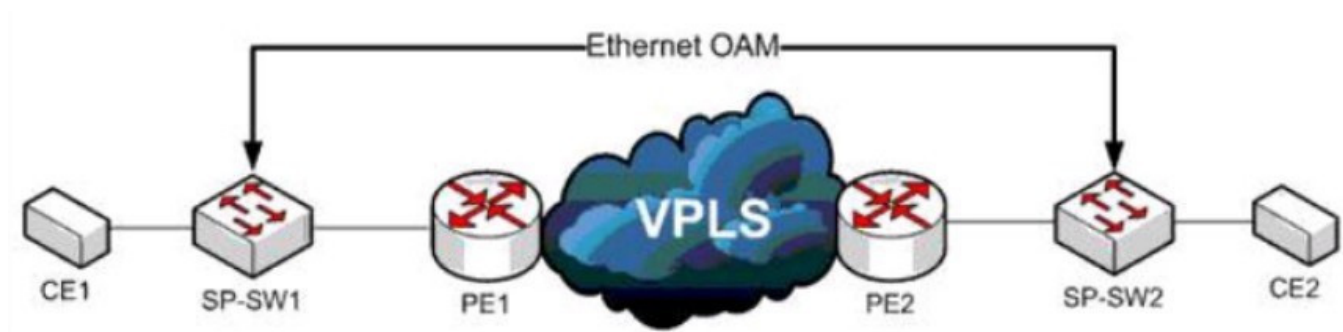
**QUESTION 1**

An international media provider is an early adopter of Docker and micro services and is using an open-source homegrown container orchestration system. A few years ago, they migrated from on-premises data centers to the cloud. Now they are faced with challenges related to management of the deployed services with their current homegrown orchestration system.

Which platform is well-suited as a state-aware orchestration system?

- A. Puppet
- B. Kubemetes
- C. Ansible
- D. Terraform

Correct Answer: B

**QUESTION 2**

Refer to the exhibit. A service provider has a requirement to use Ethernet OAM to detect end-to-end connectivity failures between SP-SW1 and SP-SW2. Which two ways to design this solution are true? (Choose two)

- A. Enable unicast heartbeat messages to be periodically exchanged between MEPs
- B. Enable Connectivity Fault Management on the SP switches
- C. Use upward maintenance endpoints on the SP switches
- D. Forward E-LMI PDUs over VPLS
- E. Forward LLD PDUs over the VPLS

Correct Answer: BC

**QUESTION 3**

Which two benefits can software defined networks provide to businesses? (Choose two.)



- A. provides additional redundancy
- B. decentralized management
- C. reduced latency
- D. enables innovation
- E. reduction of OpEx/CapEx
- F. meets high traffic demands

Correct Answer: DE

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#### QUESTION 4

Company XYZ wants design recommendations for Layer 2 redundancy (using Layer 2 technologies). The company wants to prioritize flexibility and scalability elements in the new design.

Which two technologies help meet these requirements? (Choose two.)

- A. Configure DHCP snooping on the switches
- B. Use switch clustering at the distribution layer where possible
- C. Use Unidirectional Link Detection
- D. Avoid stretching VLANs across switches
- E. Use root guard

Correct Answer: BE

Switch clustering is a flexibility + Scalability, Root guard gives flexibility to connect L2 switches in any topology, keeping the ROOT safe

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#### QUESTION 5

Which design principal improves network resiliency?

- A. Added load-balancing
- B. Added redundancy
- C. Added confidentiality
- D. Added reliability

Correct Answer: B

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#### QUESTION 6



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What are two descriptions of network optimization? (Choose two.)

- A. maintain high availability
- B. proactive network management
- C. network redesign
- D. network health maintenance
- E. identify network requirements

Correct Answer: AD

network redesign is a potential outcome of the optimization process.

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### QUESTION 7

A software-defined networking (SDN) controller teams network topology information by using BGP link-state sessions with the route reflectors of an MPLS-enabled network. The controller then uses the topology information to apply on-demand traffic policies to the network through a protocol that is supported from all Layer 3 routers. Each policy is represented as a RIB entry in the control plane of the router.

Which SDN model has been implemented?

- A. SDN centralized
- B. SDN traffic engineering
- C. SD-WAN
- D. SDN hybrid

Correct Answer: B

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### QUESTION 8

An architect prepares a network design for a startup company. The design must be able to meet business requirements while the business grows and divests due to rapidly changing markets. What is the highest priority in this design?

- A. The network should be hierarchical
- B. The network should be modular.
- C. The network should be scalable.
- D. The network should have a dedicated core.

Correct Answer: B

[https://community.cisco.com/legacyfs/online/ccde\\_9781587144615\\_chapter1.pdf](https://community.cisco.com/legacyfs/online/ccde_9781587144615_chapter1.pdf)

"Whereas with the modular design approach, if any given module faces an issue such as a security breach or the



addition or removal of modules, there should be no need to redesign the network or introduce any effect to the other modules.

Furthermore, breaking complex parts in the network based on a modular approach into manageable blocks will optimize the overall network manageability. In other words, from a network design point of view, modularity can promote design

simplicity, flexibility, fault isolation, and scalability, as shown in Figure 1-7 [10]. At the same time, modularity reduces operational costs and complexities." The diagram shows modularity is the central point.

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### QUESTION 9

How can EIGRP topologies be designed to converge as fast as possible in the event of a point-to-point link failure?

- A. Limit the query domain by use of distribute lists.
- B. Build neighbor adjacencies in a triangulated fashion.
- C. Build neighbor adjacencies in squared fashion.
- D. Limit the query domain by use of summarization.
- E. Limit the query domain by use of default routes.

Correct Answer: D

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### QUESTION 10

What are two design constraints in a standard spine and leaf architecture? (Choose two.)

- A. Spine switches can connect to each other.
- B. Each spine switch must connect to every leaf switch.
- C. Leaf switches must connect to each other.
- D. Endpoints connect only to the spine switches.
- E. Each leaf switch must connect to every spine switch.

Correct Answer: BE

Endpoints does not mean the servers

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### QUESTION 11

Which Interconnectivity method offers the fastest convergence in the event of a unidirectional issue between three Layer 3 switches connected together with routed links in the same rack in a data center?

- A. Copper Ethernet connectivity with BFD enabled
- B. Copper Ethernet connectivity with UDLD enabled



- C. Fiber Ethernet connectivity with BFD enabled
- D. Fiber Ethernet connectivity with UDLD enabled

Correct Answer: C

## QUESTION 12

### DRAG DROP

The network team in XYZ Corp wants to modernize their infrastructure and is evaluating an implementation and migration plan to allow integration MPLS-based, Layer 2 Ethernet services managed by a service provider to connect branches and remote offices. To decrease OpEx and improve response times when network components fail, XYZ Corp decided to acquire and deploy new routers. The network currently is operated over E1 leased lines (2 Mbps) with a managed CE service provided by the telco.

Drag and drop the implementation steps from the left onto the corresponding targets on the right in the correct order.

Select and Place:

Activation of the MPLS-based L2VPN service.	Step 1
Monitor performance of the Ethernet service for a predefined period of time.	Step 2
Decommission E1 leased line.	Step 3
Deployment of new branch routers.	Step 4
Test and validation of SLA parameters in the L2VPN.	Step 5
Migrate E1 to the new Ethernet service.	Step 6

Correct Answer:




Deployment of new branch routers.

Activation of the MPLS-based L2VPN service.

Test and validation of SLA parameters in the L2VPN.

Migrate E1 to the new Ethernet service.

Monitor performance of the Ethernet service for a predefined period of time.

Decommission E1 leased line.

### QUESTION 13

SD-WAN can be used to provide secure connectivity to remote offices, branch offices, campus networks, data centers, and the cloud over any type of IP-based underlay transport network. Which two statements describe SD WAN solutions? (Choose two.)

- A. SD-WAN networks are inherently protected against slow performance.
- B. Control and data forwarding planes are kept separate.
- C. Improved operational efficiencies result in cost savings.
- D. Solutions include centralized orchestration, control, and zero-touch provisioning.
- E. Solutions allow for variations of commodity and specialized switching hardware.

Correct Answer: BD

Reference: <https://techacad.net/what-is-sd-wan-software-defined-wide-area-network/>

### QUESTION 14

As a network designer you need to support an enterprise with hundreds of remote sites connected over a single WAN network that carries different types of traffic, including VoIP, video, and data applications, which of the following design considerations will not impact design decision?

- A. Focus on the solution instead of the problem, which helps to reduce downtime duration
- B. The location of the data collection
- C. What direction the data or flows should be metered
- D. Identify traffic types and top talkers over this link



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Correct Answer: A

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#### QUESTION 15

Which two characteristics are associated with 802.1s? (Choose two)

- A. 802.1s provides for faster convergence over 802.1D and PVST+
- B. 802.1s is a Cisco enhancement to 802.1w
- C. 802.1s supports up to 1024 instances of 802.1w
- D. 802.1s maps multiple VLANs to the same spanning-tree instance
- E. CPU and memory requirements are the highest of all spanning-tree STP implementations

Correct Answer: AD

- A) Yes. The spanning tree algorithm used by MSTP is RSTP which provides quick convergence.
- B) No. 802.1s is from IEEE not Cisco.
- C) No. 802.1s has maximum 16 instance of RSTP.
- D) Yes. One or more VLANs can be mapped to one MSTP instance
- E) No. The CPU and memory requirements are less than for Rapid PVST+ but more than for RSTP.

<https://www.ciscopress.com/articles/article.asp?p=2832407&seqNum=5>

<https://www.cisco.com/c/en/us/support/docs/lan-switching/spanning-tree-protocol/24248-147.htm>

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