



Vendor: Cisco

Exam Code: 642-874

Exam Name: Designing Cisco Network Service
Architectures (ARCH)

Version: DEMO

QUESTION 1

Which configuration represents resiliency at the hardware and software layers?

- A. multiple connections and FHRP
- B. HSRP and GLBP
- C. redundant supervisor and power supplies
- D. dual uplinks and switches

Answer: A

QUESTION 2

To support the enterprise high-availability requirements, which workgroup switch technology can be used to interconnect multiple switches into a single logical unit?

- A. StackWise
- B. EtherChannel
- C. VSS
- D. vPC
- E. Flex Links

Answer: A

QUESTION 3

A network engineer must create a Layer 2 switch block design that has deterministic convergence and is loop-free at Layer 2. Which two switch block elements are needed to meet the requirements? (Choose two.)

- A. Layer 3 link between distribution switches
- B. HSRP with interface tracking on uplinks to core switches
- C. RPVST with equal bridge priority on distribution switches
- D. VLANs that do not span access switches
- E. Layer 2 link between distribution switches

Answer: AD

QUESTION 4

Which feature set enables the full OSPF routing process when using a Cisco Catalyst 3750X Switch?

- A. LAN base
- B. IP base
- C. IP services
- D. enterprise access

Answer: C

QUESTION 5

To which network layer should Cisco Express Forwarding be tuned to support load balancing and to make more informed forwarding decisions?

- A. Layer 1
- B. Layer 2
- C. Layer 3
- D. Layer 4
- E. Layer 5
- F. Layer 6
- G. Layer 7

Answer: D

QUESTION 6

Which STP enhancement can be configured on Layer 2 ports between distribution layer switches?

- A. LoopGuard
- B. PortFast
- C. UplinkFast
- D. RootGuard

Answer: A

QUESTION 7

A campus network in a switch block design requires redundant distribution switches, load sharing across uplinks, a loop-free topology, and only one gateway IP address per VLAN. Which switching technology meets all of the requirements?

- A. HSRP
- B. VSS
- C. Spanning Tree Protocol
- D. EtherChannel

Answer: B

QUESTION 8

Which network virtualization technology provides logical isolation of network traffic at Layer 3?

- A. VSS
- B. VLAN
- C. VRF-Lite
- D. MEC

Answer: C

QUESTION 19

Which Cisco NAC Appliance component is optional?

- A. NAC Appliance Manager
- B. NAC Appliance Server

- C. NAC Appliance Agent
- D. NAC Appliance Policy Updates

Answer: C

QUESTION 10

Which two key components are related to one firewall per ISP design option for e-commerce? (Choose two.)

- A. It is a common approach to single-homing.
- B. This approach is commonly used in large sites.
- C. Any failure on an edge router results in a loss of session.
- D. It has one NAT to two ISP-assigned blocks.
- E. It is difficult to set up and administer.

Answer: CD

QUESTION 11

Which NAC design model matches the following definitions?

- NAS is deployed centrally in the core or distribution layer.
 - Users are multiple hops away from the Cisco NAS.
 - After authentication and posture assessment, the client traffic no longer passes through the Cisco NAS.
 - PBR is needed to direct the user traffic appropriately.
- A. Layer 3 in-band virtual gateway
 - B. Layer 3 out-of-band with addressing
 - C. Layer 2 in-band virtual gateway
 - D. Layer 2 out-of-band virtual gateway

Answer: B

QUESTION 12

Which option is a recommended firewall topology?

- A. using two firewalls with stateful failover switched mode
- B. using one firewall with NAT enabled in transparent mode
- C. using two firewalls in active/active mode
- D. using one firewall with stateful failover enabled in routed mode

Answer: C

QUESTION 13

Which three options are recommended practices when configuring VTP? (Choose three.)

- A. Set the switch to transparent mode.
- B. Set the switch to server mode.
- C. Enable VLAN pruning.

- D. Disable VLAN pruning.
- E. Specify a domain name.
- F. Clear the domain name.

Answer: ADE

QUESTION 14

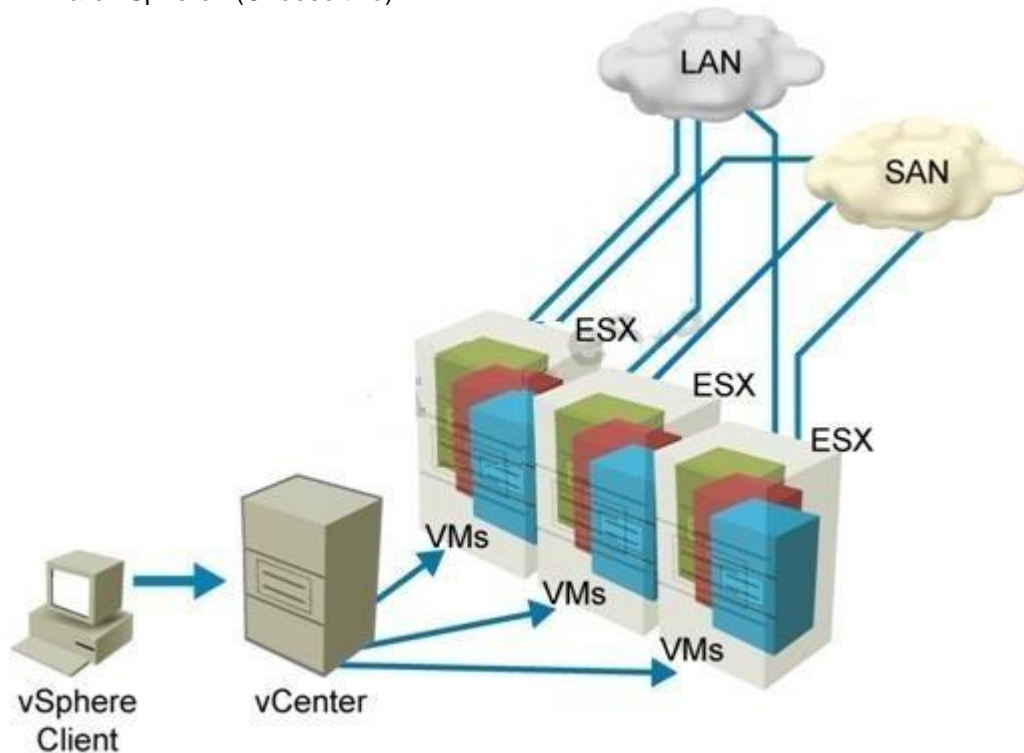
Which two of these correctly describe asymmetric routing and firewalls? (Choose two.)

- A. only operational in routed mode
- B. only operational in transparent mode
- C. only eight interfaces can belong to an asymmetric routing group
- D. operational in both failover and non-failover configurations
- E. only operational when the firewall has been configured for failover

Answer: CD

QUESTION 15

Refer to the exhibit. Which of the following two are advantages of Server virtualization using VMware vSphere? (Choose two)



- A. Retains the one-to-one relationship between switch ports and functional servers
- B. Enables the live migration of a virtual server from one physical server to another without disruption to users or loss of services
- C. The access layer of the network moves into the vSphere ESX servers, providing streamlined vSphere management
- D. Provides management functions including the ability to run scripts and to install third-party agents for

- hardware monitoring, backup, or systems management
- E. New functional servers can be deployed with minimal physical changes on the network

Answer: BD

QUESTION 16

Which of the following two are effective and simple means of employing route summarization within the Enterprise Campus network? (Choose two)

- A. A default route (0.0.0.0 /0) advertised dynamically into the rest of the network
- B. Route filtering to manage traffic flows in the network, avoid inappropriate transit traffic through remote nodes, and provide a defense against inaccurate or inappropriate routing updates
- C. Use manual split horizon
- D. Use a structured hierarchical topology to control the propagation of EIGRP queries
- E. Open Shortest Path First (OSPF) stub areas

Answer: AE

QUESTION 17

A network engineer is implementing virtualization into the enterprise network. Which system should be used to address policy enforcement at the distribution layer?

- A. Cisco IOS based firewall
- B. multilayer switches
- C. integrated firewall services
- D. identity services engine
- E. intrusion protection systems

Answer: C

QUESTION 18

Which network virtualization plane is used to separate traffic forwarding tables?

- A. control
- B. data
- C. management
- D. access

Answer: B

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