400-007 Q&As

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QUESTION 1

Which two statements describe the hierarchical LAN design model? (Choose two)

A. It is a well-understood architecture that provides scalability

B. It is the best design for modern data centers

C. It is the most optimal design but is highly complex

D. It provides a simplified design

E. Changes, upgrades, and new services can be introduced in a controlled and stagged manner

Correct Answer: AE

QUESTION 2

A network attacker exploits application flaws to compromise critical systems in the organization with these objectives:

1.

Obtain sensitive data and export the data out of the network.

2.

Compromise developer and administrator credentials to potentially

What is the next step after application discovery is completed in Zero Trust networkings

A. Establish visibility and behavior modeling

B. Enforce policies and microsegmentation.

C. Assess real-time security health.

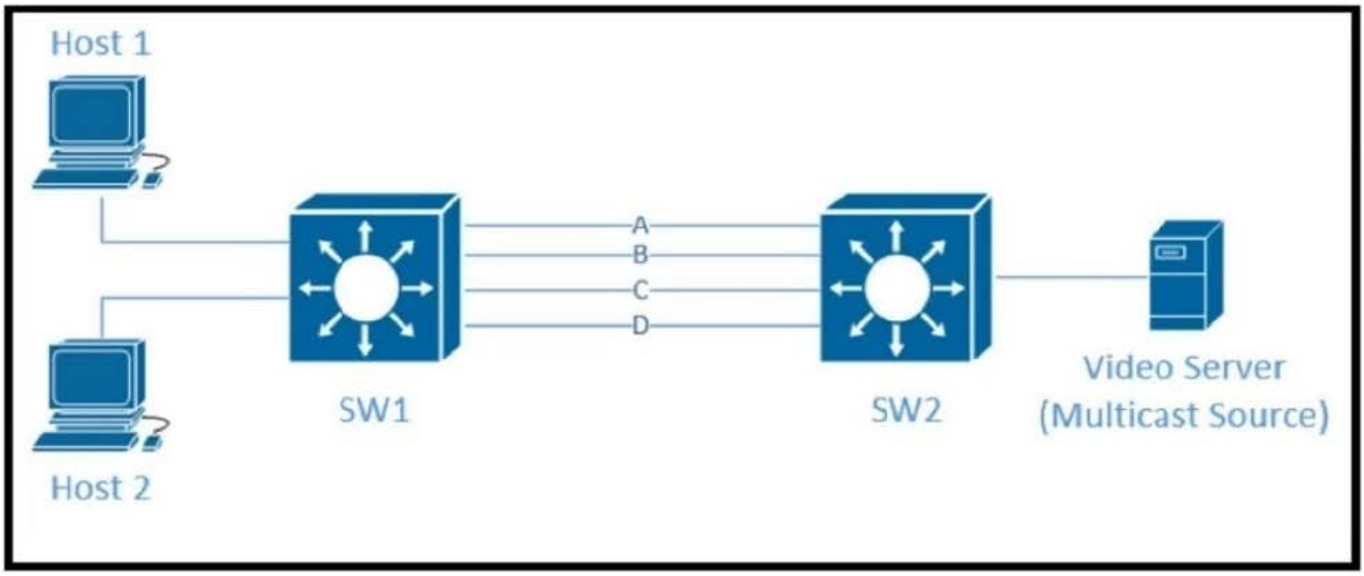
D. Ensure trustworthiness of systems.

Correct Answer: B

https://www.cisco.com/c/en/us/solutions/collateral/enterprise/design-zone-security/zt-arch-guide.html

QUESTION 3

Refer to the exhibit.



Traffic was equally balanced between Layer 3 links on core switches SW1 and SW2 before an introduction of the new video server in the network. This video server uses multicast to send video streams to hosts and now one of the links between core switches is over utilized.

Which design solution solves this issue?

A. Aggregate links using Layer 2 link aggregation.

B. Add more links between core switches.

C. Apply a more granular load-balancing method on SW2.

D. Filter IGMP joins on an over-utilized link.

E. Apply a more granular load-balancing method on SW1.

Correct Answer: A

IP multicast Multipath only split load from more than one source, in this case, there is only one source neither E or C is correct as traffic will still Continuing To hit overutilized link.

QUESTION 4

What are two primary design constraints when a robust infrastructure solution is created? (Choose two.)

A. monitoring capabilities

B. project time frame

C. staff experience

D. component availability

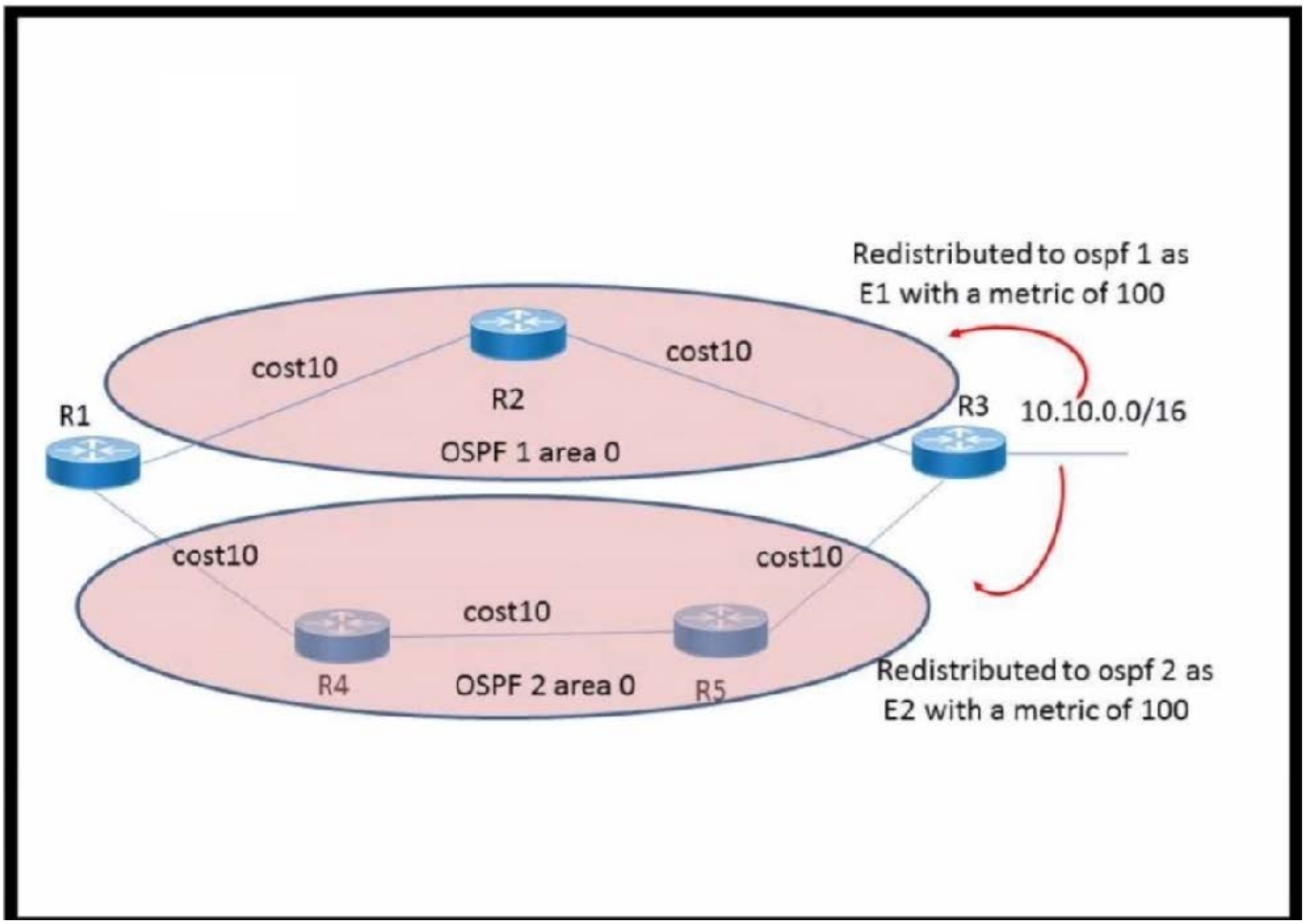
E. total cost

Correct Answer: DE

Component availability: Availability of required components and technologies is a critical factor in designing a robust infrastructure solution.

QUESTION 5

Refer to the exhibit.



The network 10.10.0 .0/16 has been redistributed to OSPF processes and the best path to the destination from R1 has been chosen as R1-R2-R3 A failure occurred on the link between R2 and R3 and the path was changed to R1-R4-R5-R3. What happens when the link between R2 and R3 is restored?

A. The path R1-R4-R5-R3 continues to be the best path because the metric is better

B. The path reverts back to R1-R2-R3 because the route type is E1

C. The path R1-R4-R5-R3 continues to be the best path because OSPF does not compare the metrics between two domains

D. The path reverts to R1-R2-R3 because this was the previous best path

Correct Answer: D

When the link between R2 and R3 is restored, the path reverts back to R1-R2-R3 because this was the previous best path. This is because OSPF uses the Dijkstra algorithm to calculate the shortest path tree (SPT) and the path with the

lowest cost is chosen as the best path. In this case, the cost of the path R1-R2-R3 is lower than the cost of the path R1-R4-R5-R3, so the path R1-R2-R3 is chosen as the best path. OSPF also has a preference order for different types of routes, such as intra-area, inter-area, external type 1, external type 2, NSSA type 1, and NSSA type 2. However, this preference order only applies when OSPF has to choose between routes of different types to the same destination. In this scenario, both paths are external type 2 routes, so the preference order does not affect the path selection

QUESTION 6

As network designer, which option is your main concern with regards to virtualizing multiple network zones into a single hardware device?

A. Fate sharing

B. CPU resource allocation

C. Congestion control

D. Security

E. Bandwidth allocation

Correct Answer: A

QUESTION 7

Which effect of using ingress filtering to prevent spoofed addresses on a network design is true?

A. It reduces the effectiveness of DDoS attacks when associated with DSCP remarking to Scavenger.

B. It protects the network Infrastructure against spoofed DDoS attacks.

C. It Classifies bogon traffic and remarks it with DSCP bulk.

D. It filters RFC 1918 IP addresses.

Correct Answer: B

QUESTION 8

You were tasked to enhance the security of a network with these characteristics:

A pool of servers is accessed by numerous data centers and remote sites The servers are accessed via a cluster of firewalls The firewalls are configured properly and are not dropping traffic The firewalls occasionally cause asymmetric routing of traffic within the server data center.

Which technology should you recommend to enhance security by limiting traffic that could originate from a hacker compromising a workstation and redirecting flows at the servers?

A. Poison certain subnets by adding static routes to Null0 on the core switches connected to the pool of servers.

B. Deploy uRPF strict mode.

C. Limit sources of traffic that exit the server-facing interface of the firewall cluster with ACLs.

D. Deploy uRPF loose mode

Correct Answer: C

QUESTION 9

You are designing a network running both IPv4 and IPv6 to deploy QoS.

Which consideration is correct about the QoS for IPv4 and IPv6?

A. IPv4 and IPv6 traffic types can use use queuing mechanisms such as LLQ, PQ and CQ.

B. IPv6 packet classification is only available with process switching, whereas IPv4 packet classification is available with both process switching and CEF.

C. IPv6 and IB/4 traffic types can use a single QoS policy to match both protocols

D. Different congestion management mechanisms need to be used for IPv4 and IPv6 traffic types

Correct Answer: C

QUESTION 10

The controller has a global view of the network, and it can easily ensure that the network is in a consistent and optimal configuration. Which two statements describe a centralized SDN control path? (Choose two.)

A. It significantly improves the latency when performing reactive handling of PACKET_IN events

B. Integrating smart NIC capabilities on the local host level is made easier through rest APIs

C. A centralized controller can support all southbound APIs, which allows for easy integration with legacy equipment

D. It is highly-available by design with no single-point-of-failure risks present

E. Scaling of the centralized controller cluster is challenging for services like DHCP and load-balancing

Correct Answer: CE

http://blog.gampel.net/2015/08/centralized-vs-distributed-sdn-control.html

QUESTION 11

Which two features are advantages of SD-WAN compared to MPLS-based connectivity? (Choose two.)

A. uses FEC constructs for traffic forwarding, thereby improving efficiency

B. separates infrastructure and policy

C. uses policy-based forwarding of real-time traffic with less complexity

D. unifies the WAN backbone

E. manages failures through backup links

Correct Answer: BD

A) No. That\\'s not specific to SD-WAN

B) Yes. Separate data plane and control plane

C) No. Real-time traffic is focus on latency and QoS.

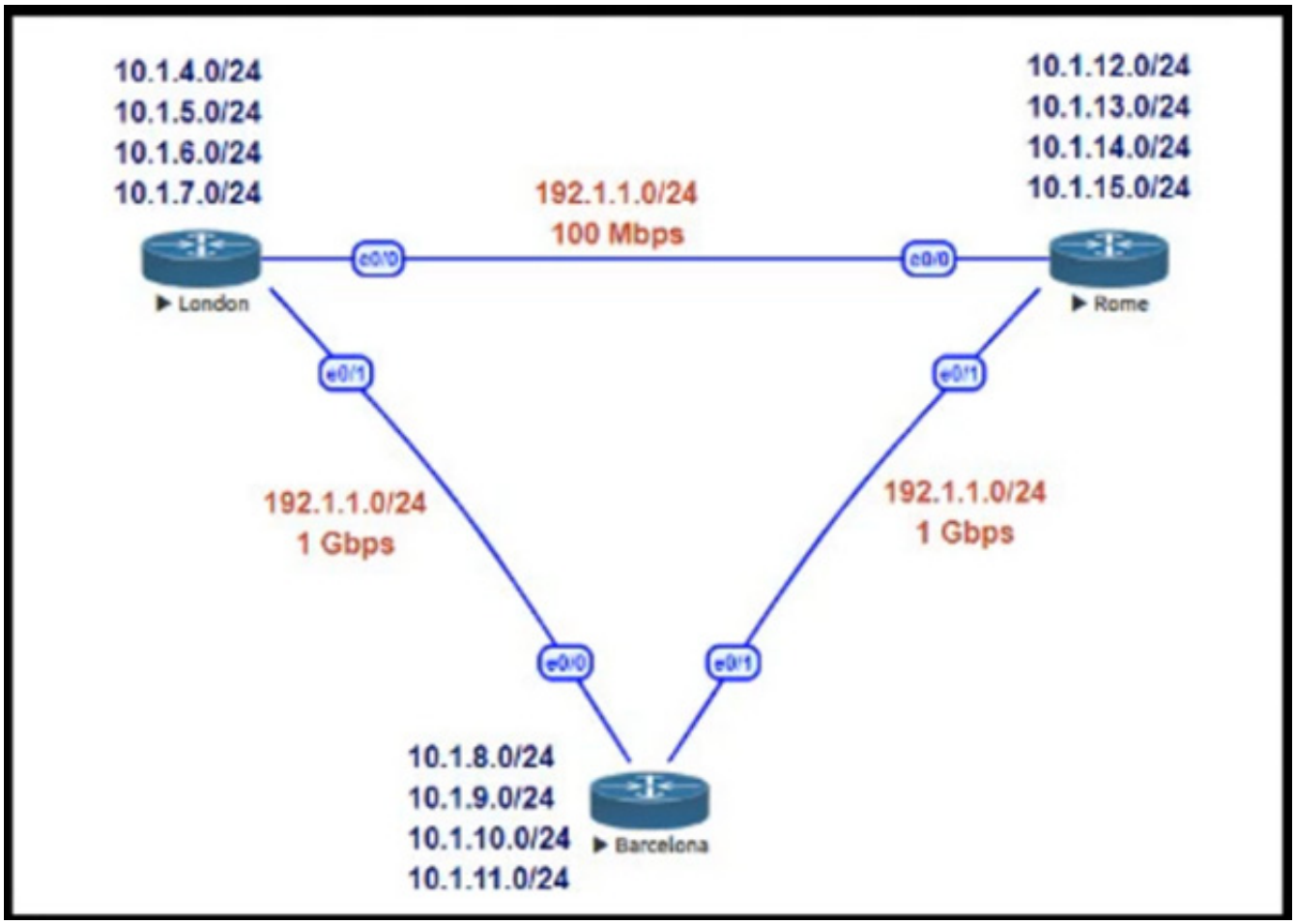
D) Yes. Exactly stated "SD-WAN unifies the WAN backbone" in below site:

https://www.kyndryl.com/in/en/learn/sd-wan

E) No. MPLS also can do that.

QUESTION 12

Refer to the exhibit.



This network is running OSPF as the routing protocol. The internal networks are being advertised in OSPF London and Rome are using the direct link to reach each other although the transfer rates are better via Barcelona. Which OSPF

design change allows OSPF to calculate the proper costs?

A. Change the OSPF reference bandwidth to accommodate faster links.

B. Filter the routes on the link between London and Rome

C. Change the interface bandwidth on all the links.

D. Implement OSPF summarisation to fix the issue

Correct Answer: A

QUESTION 13

An MPLS service provider is offering a standard EoMPLS-based VPLS service to Customer A. providing Layer 2 connectivity between a central site and approximately 100 remote sites. Customer A wants to use the VPLS network to carry its internal multicast video feeds which are sourced at the central site and consist of 20 groups at Mbps each. Which service provider recommendation offers the most scalability?

A. EoMPLS-based VPLS can carry multicast traffic in a scalable manner

B. Use a mesh of GRE tunnels to carry the streams between sites

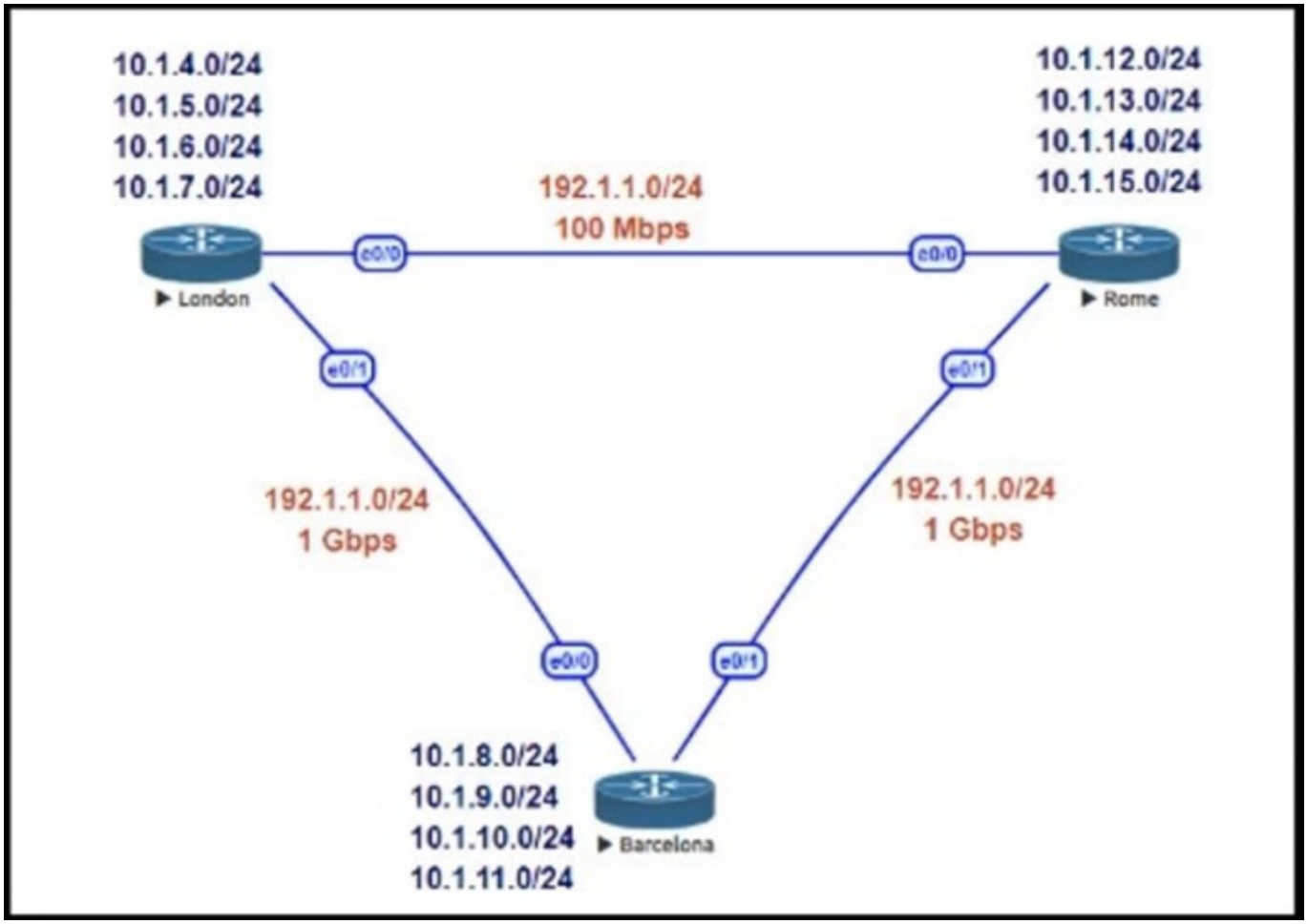
C. Enable snooping mechanisms on the provider PE routers.

D. Replace VPLS with a Layer 3 MVPN solution to carry the streams between sites

Correct Answer: D

QUESTION 14

Refer to the exhibit.



This network is running EIGRP as the routing protocol and the internal networks are being advertised in EIGRP. Based on the link speeds, all traffic between London and Rome is getting propagated via Barcelona and the direct link between London and Rome is not being utilized under normal working circumstances. The EIGRP design should allow for efficiency in the routing table by minimizing the routes being exchanged. The link between London and Rome should be utilized for specific routes. Which two steps accomplish this task? (Choose two.)

A. Configure EIGRP route summarization on all the interfaces to summarize the internal LAN routes

B. Filter the routes on the link between London and Barcelona

C. Filter the routes on the link between London and Rome

D. Configure route leaking of summary routes on the link between London and Rome

Correct Answer: AD

QUESTION 15

An enterprise requires MPLS connected branches to access cloud-based Microsoft 365 services over an SD-WAN solution. Internet access Is available only at dual regional hub sites that are connected to the MPLS network. Which connectivity method provides an optimum access method to the cloud-based services If one ISP suffers loss or latency?

A. Cloud onRamp gateway site

B. Cloud onRamp SWG

C. Cloud onRamp

D. Cloud onRamp SaaS

Correct Answer: D

Cloud OnRamp gateway site is only one of a few method to optimise SAAS connectivity within a SDWAN implementation. the overarching solution is \\'Cloud OnRmap SAAS\\'. with the options provided D is the most accurate answer

https://www.cisco.com/c/en/us/td/docs/routers/sdwan/configuration/cloudonramp/vedge-20-x/cloud-onramp-book-vedge/cor-saas.html#common-scenarios-cor-saas-b