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QUESTION 1

Which parameter is the most important factor to consider when deciding service placement in a cloud solution?

- A. data replication cost
- B. application structure
- C. security framework Implementation time
- D. data confidentiality rules

Correct Answer: D

QUESTION 2

Company XYZ has two routing domains in their network, EIGRP and OSPF. The company wants to provide full reachability between the two domains by implementing redistribution on a router running both protocols. They need to design the redistribution in a way that the OSPF routers will see link costs added to external routes. How must the redistribution strategy be designed for this network?

- A. Redistribute using metric type 2 into OSPF.
- B. Redistribute using metric type 1 into OSPF.
- C. Redistribute using metric type 1 into EIGRP.
- D. Redistribute using metric type 2 into EIGRP.

Correct Answer: B

<https://www.ciscopress.com/articles/article.asp?p=27573andseqNum=4#:~:text=Routes%20a re%20redistributed%20in%20OSPF,shown%20in%20Figure%2014%2D2.>

QUESTION 3

Company XYZ has a new network based on IPv6. Some of the subnets that they are planning to use will be confidential and need an addressing scheme that confines them to the local campus network. Which type of IPv6 addresses can be used for these networks in the IPv6 addressing design?

- A. local addresses
- B. private addresses
- C. link-local addresses
- D. unique local addresses

Correct Answer: D

Reference: <https://study-ccna.com/ipv6-unique-local-addresses/>

QUESTION 4

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 5

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 6

DRAG DROP

An enterprise organization currently provides WAN connectivity to their branch sites using MPLS technology, and the enterprise network team is considering rolling out SD-WAN services for all sites.

With regards to the deployment planning, drag and drop the actions from the left onto the corresponding steps on the right.

Select and Place:

Select deployment models between virtual server software and hardware-based SD-WAN appliances.	step 1
Conduct a pilot test to observe and record unexpected issues.	step 2
Make an assessment of running protocols and application usage in the network.	step 3
Evaluate existing circuits and performance to get details of connectivity cost and reliability.	step 4
Layout transport plan based on business prioritizes traffic and the unique bandwidth requirements of each specific application.	step 5
Understand the traffic monitoring requirements and capabilities.	step 6

Correct Answer:

	Make an assessment of running protocols and application usage in the network.
	Evaluate existing circuits and performance to get details of connectivity cost and reliability.
	Select deployment models between virtual server software and hardware-based SD-WAN appliances.
	Layout transport plan based on business prioritizes traffic and the unique bandwidth requirements of each specific application.
	Understand the traffic monitoring requirements and capabilities.
	Conduct a pilot test to observe and record unexpected issues.

QUESTION 7

Which management category is not part of FCAPS framework?

- A. Configuration
- B. Security
- C. Performance

D. Authentication

E. Fault-management

Correct Answer: D

QUESTION 8

A customer migrates from a traditional Layer 2 data center network into a new SDN-based spine-and-leaf VXLAN EVPN data center within the same location. The networks are joined to enable host migration at Layer 2.

What is the final migration step after hosts have physically migrated to have traffic flowing through the new network without changing any host configuration?

A. Shut down legacy Layer 3 SVIs, clear ARP caches on all hosts being migrated and then configure the legacy VRRP address onto new VXLAN core switches

B. Increase VRRP priorities on new infrastructure over legacy VRRP values, then shut down legacy SVIs

C. Shut down legacy infrastructure to allow VXLAN gateways to become active

D. Shut down legacy Layer 3 SVIs and activate new preconfigured Layer 3 SVIs on VXLAN

Correct Answer: D

QUESTION 9

Which two technologies enable multilayer segmentation? (Choose two.)

A. policy-based routing

B. segment routing

C. data plane markings

D. firewalls

E. filter lists

Correct Answer: AD

Firewalls for sure. <https://community.cisco.com/t5/security-knowledge-base/segmentation-policy-using-sgt-in-pbr-pdf/tap/3651240>

QUESTION 10

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 staged manner

Correct Answer: AE

QUESTION 11

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 12

Router R1 is a BGP speaker with one peering neighbor over link "A". When the R1 link/interface "A" fails, routing announcements are terminated, which results in the tearing down of the state for all BGP routes at each end of the link. What is this a good example of?

- A. fault isolation
- B. resiliency
- C. redundancy
- D. fate sharing

Correct Answer: D

QUESTION 13

An architect receives a functional requirement for a NAC system from a customer security policy stating that if a corporate Wi-Fi device does not meet current AV definitions, then it cannot access the corporate network until the definitions are updated. Which component should be built into the NAC design?

- A. posture assessment with remediation VLAN
- B. quarantine SGTs

C. dACLs with SGTs

D. quarantine VLAN

Correct Answer: A

QUESTION 14

Company XYZ has a hub-and-spoke topology over an SP-managed infrastructure. To measure traffic performance metrics, they implemented IP SLA senders on all spoke CE routers and an IP SLA responder on the hub CE router. What must they monitor to have visibility on the potential performance impact due to the constantly increasing number of spoke sites?

A. CPU and memory usage on the spoke routers

B. memory usage on the hub router

C. CPU usage on the hub router

D. interface buffers on the hub and spoke routers

Correct Answer: C

QUESTION 15

Company XYZ runs OSPF in their network. A design engineer decides to implement hot- potato routing architecture. How can this implementation be achieved?

A. Enable iBGP and apply prepend to ensure all prefixes will have the same length of the AS path attribute value.

B. Redistribute the external prefixes onto OSPF and ensure the total metric calculation includes only the ext value and the value is the same in all ASBRs.

C. Enable OSPF load-balancing over unequal cost path.

D. Redistribute the external prefixes onto OSPF and ensure that the total metric calculation includes external internal values.

Correct Answer: D

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