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Question 1

Question Type: DragDrop

Network operators have many options available, from fully centralized to fully distributed control planes, and each approach has its own set of characteristics. Drag and drop the characteristics from the left onto the corresponding approach on the right.

Answer Area

Possible convergence difficulties, N instances to configure and manage.

Answer:

Easy to horizontally scale, just deploy a new instance.

Canonical approach, one instance of control plane per device (logical or real).

Most often used only in experimental SDN controllers.

Single point of failure and difficult to horizontally scale.

When an organization sells parts of its business, it must detach the affected parts of the network from the rest of the network. Which network design approach is appropriate to minimize the impact and risks as the divested parts of the network are detached?

Strictly Centralized Control Plane

option A

option B

Semi or Logically Centralized Control Plane

option A

option B

Fully Distributed Control Plane

option A

option B

Question 2

Question Type: MultipleChoice

Network changes because of mergers, acquisitions, and divestment can be very disruptive to the network if not carried out carefully.

When an organization sells parts of its business, it must detach the affected parts of the network from the rest of the network. Which network design approach is appropriate to minimize the impact and risks as the divested parts of the network are detached?

Options:

- A- redundant design
- B- modular design
- C- less complex design
- D- routed access design

Answer:

B

Question 3

Question Type: MultipleChoice

A network hacker is trying to interrupt the transport packet on IPSEC. A packet with duplicate sequence numbers is introduced. The customer sends high-priority traffic during this window. Which design parameter should be considered to mitigate this issue?

Options:

- A- Classify and Mark duplicate sequence packets.
- B- Apply anti-replay window 4096.

C- Restrict keywork in IPSEC Tunnel.

D- Increase QoS shape policy.

Answer:

B

Question 4

Question Type: MultipleChoice

A large enterprise cloud design team is evaluating different cloud consumption models. What is an example of typical PaaS limitations or concerns that should be considered during service design?

Options:

A- vendor lock-in

B- runtime issues

C- lack of control

D- multi-tenant security

Answer:

A

Question 5

Question Type: MultipleChoice

A large enterprise customer has a single router that uses two active/active 10-Mbps internet links in one of its offices. Each link currently handles approximately 7 Mbps of traffic, which is close to the full link capacity.

When a link fails, the failure leads to significantly degraded performance of all applications. Static routing is used. The current ISP cannot deliver additional bandwidth capacity on the existing links. The customer needs a network design that is resistant to failure, but does not increase CAPEX. Which solution should be proposed to the customer?

Options:

A- Implement quality of service on the current links.

- B-** Add a third link to the current router.
- C-** Add an additional edge router connected to a second ISP.
- D-** Use dynamic routing for equal-cost multipath.

Answer:

D

Question 6

Question Type: MultipleChoice

A large enterprise customer is planning a new WAN connection to its headquarters. The current architecture is dual homed with static routing, but users complain when a specific link fails. Failure of the other link does not affect any services or applications. The new WAN connection must provide the headquarters with a resilient network design and increase the return on investment.

Which solution should be recommended to the customer?

Options:

- A- Implement granular quality of service on the links.
- B- Procure additional bandwidth.
- C- Use dynamic routing toward the WAN.
- D- Add an additional link to the WAN.

Answer:

C

Question 7

Question Type: MultipleChoice

A software-defined network can be defined as a network with an API that allows applications to understand and react to the state of the network in near real time. A vendor is building an SDN solution that exposes an API to the RIB and potentially the forwarding engine directly. The solution provides off-box processes with the capability to interact with the routing table in the same way as a distributed routing process. Which SDN framework model does the solution use?

Options:

- A- replace
- B- augmented
- C- hybrid
- D- distributed

Answer:

B

Question 8

Question Type: MultipleChoice

Cost is often one of the motivators for a business to migrate from a traditional network to a software- defined network. Which design decision is directly influenced by CAPEX drivers?

Options:

- A- scalability
- B- stability

C- complexity

D- manageability

Answer:

A

Question 9

Question Type: MultipleChoice

In a redundant hub and spoke "wheel" design, all spokes are connected to the hub, and spokes are connected to other spokes as well. During failure on one spoke link, the traffic from that site can be sent to a neighboring site for it to be forwarded to the hub site. But during peak hours, a link is overloaded and traffic is re-routed to a neighbor, which subsequently becomes overloaded. This overload results in network traffic oscillation as the load varies at each spoke site. This design provides more redundancy but not more resiliency because the routing protocol must process many alternate paths to determine the lowest cost path. Which two design

changes help to improve resilience in this case? (Choose two.)

Options:

- A- Increase the number of redundant paths considered during the routing convergence calculation.
- B- Eliminate links between every spoke.
- C- Increase routing protocol convergence timers.
- D- Increase unequal-cost parallel paths.
- E- Use two links to each remote site instead of one.

Answer:

D, E

Question 10

Question Type: MultipleChoice

Which security architecture component offers streamlined security operations, ease of use, and visibility across all network security elements, independent of location or form factor?

Options:

- A- threat-centric protection

- B- integrated actionable intelligence
- C- distributed enforcement
- D- central command and control

Answer:

D

Question 11

Question Type: MultipleChoice

What is a disadvantage of the traditional three-tier architecture model when east west traffic between different pods must go through the distribution and core layers?

Options:

- A- low bandwidth
- B- security
- C- scalability

D- high latency

Answer:

D

Question 12

Question Type: MultipleChoice

The network designer needs to use GLOP IP address in order make them unique within their ASN, which multicast address range will be considered?

Options:

A- 239.0.0.0 to 239.255.255.255

B- 224.0.0.0 to 224.0.0.255

C- 233.0.0.0 to 233.255.255.255

D- 232.0.0.0 to 232.255.255.255

Answer:

C

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