Exam Questions 400-007

Cisco Certified Design Expert (CCDE v3.0) Written Exam

https://www.2passeasy.com/dumps/400-007/

NEW QUESTION 1
Which solution component helps to achieve comprehensive threat protection and compliance for migration to multicloud SDX architectures?

A. system-oriented architecture
B. OSASE architecture
C. platform-oriented architecture
D. SASE architecture

Answer: D

NEW QUESTION 2
When consumers that leverage laaS reach 100% resource capacity, what can be used to redirect the overflow of traffic to the public cloud so there is no disruption to service?

A. cloud policing
B. cloud spill
C. cloud bursting
D. cloud shaping

Answer: C

NEW QUESTION 3
An enterprise solution team is performing an analysis of multilayer architecture and multicontroller SDN solutions for multisite deployments. The analysis focuses on the ability to run tasks on any controller via a standardized interface. Which requirement addresses this ability on a multicontroller platform?

A. Deploy a root controller to gather a complete network-level view.
B. Use the East-West API to facilitate replication between controllers within a cluster.
C. Build direct physical connectivity between different controllers.
D. Use OpenFlow to implement and adapt new protocols.

Answer: D

NEW QUESTION 4
Drag and drop the QoS technologies from the left onto the correct capabilities on the right

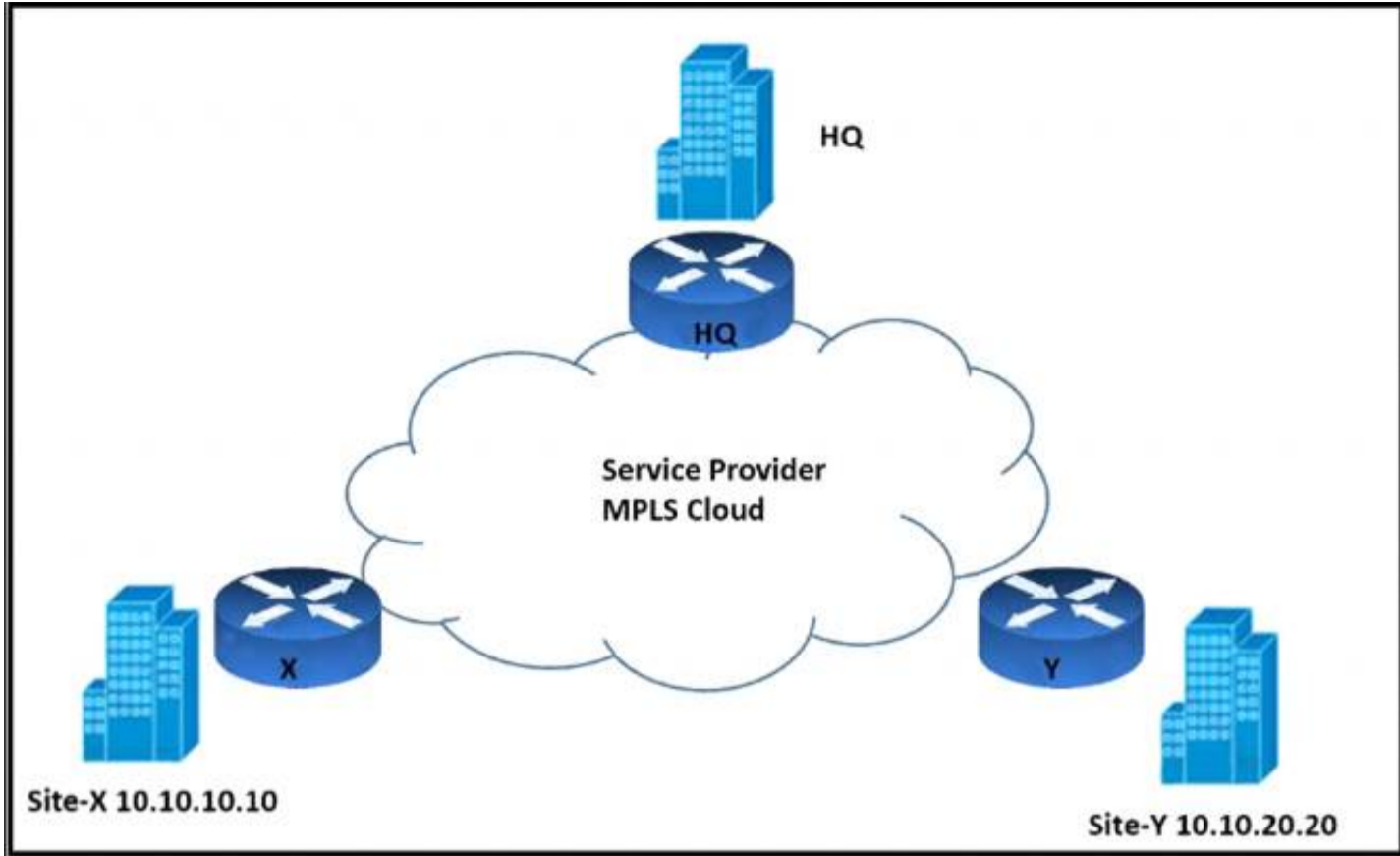| low latency queuing	allows you to buffer traffic so that it adheres to the bandwidth provided by the service provider
CB-WFQ	used for scavenger traffic when it exceeds a specified limit
policing	allows you to prioritize traffic
traffic shaping	allows you to reserve bandwidth

A. Mastered
B. Not Mastered

Answer: A

Explanation:

low latency queuing	traffic shaping
CB-WFQ	policing
policing	low latency queuing
traffic shaping	CB-WFQ

NEW QUESTION 5

Refer to the exhibit.

An architect must design an enterprise WAN that connects the headquarters with 22 branch offices. The number of remote sites is expected to triple in the next three years. The final solution must comply with these requirements:

≻ Only the loopback address of each of the enterprise CE X and Y routers must be advertised to the interconnecting service provider cloud network.

≻ The transport layer must carry the VPNv4 label and VPN payload over the MP-BGP control plane.

≻ The transport layer must not be under service provider control.

Which enterprise WAN transport virtualization technique meets the requirements?

A. EIGRP Over the Top
B. MPLS over BGP over multipoint GRE
C. DMVPN per VRF
D. point-to-point GRE per VRF

Answer: B

NEW QUESTION 6
Drag and drop the end-to-end network virtualization elements from the left onto the correct network areas on the right.

A. Mastered
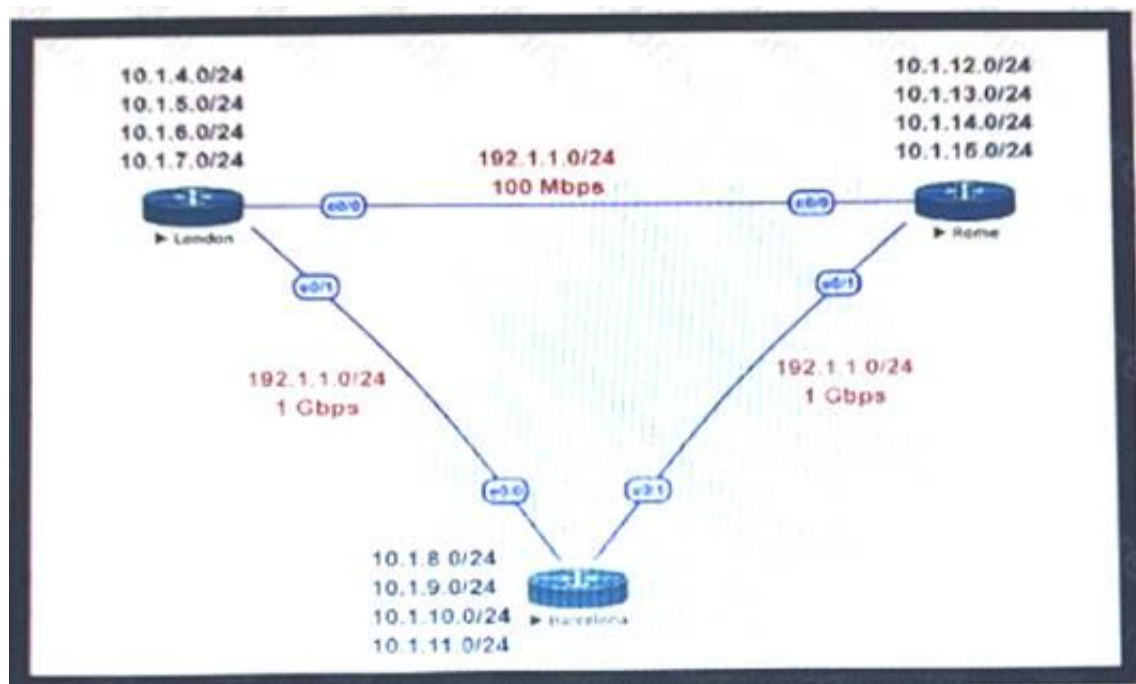B. Not Mastered

Answer: A

Explanation:
Graphical user interface Description automatically generated with medium confidence

NEW QUESTION 7
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

Answer: A

NEW 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 SVI
B. clear ARP caches on all hosts being migrated and then configure the legacy VRRP address onto new VXLAN core switches
C. Increase VRRP priorities on new infrastructure over legacy VRRP values, then shut down legacy SVIs
D. Shut down legacy infrastructure to allow VXLAN gateways to become active
E. Shut down legacy Layer 3 SVIs and activate new preconfigured Layer 3 SVIs on VXLAN

Answer: D

NEW QUESTION 9
Which three elements help network designers to construct secure systems that protect information and resources (such as devices, communication, and data) from unauthorized access, modification, inspection, or destruction? (Choose three.)

A. confidential
B. serviceability
C. reliability
D. availability
E. integrity
F. scalability

Answer: ADE

NEW QUESTION 10
A healthcare customer requested that SNMP traps must be sent over the MPLS Layer 3 VPN service. Which protocol must be enabled?

A. SNMPv3
B. Syslog
C. Syslog TLS
D. SNMPv2
E. SSH

Answer: A

NEW QUESTION 10
What statement describes the application layer as defined in the software-defined networking architecture?

A. This layer is responsible for collecting the network status such as network usage and topology.
B. This layer contains programs that communicate their desired network behavior to controllers.
C. This layer is responsible for handling packets based on the rules provided by the controller.
D. This layer processes the instructions and requirements sent by networking components.

Answer: B

NEW QUESTION 15

Which two foundational aspects of IoT are still evolving and being worked on by the industry at large? (Choose two)

A. WiFi protocols
B. Regulatory domains
C. Low energy Bluetooth sensors
D. IoT consortia
E. Standards

Answer: AC

NEW QUESTION 20
Which design consideration is valid when you contrast fabricPath and trill?

A. FabricPath uses IS-IS, but TRILL uses VxLAN
B. FabricPath permits active-active FHRP and TRILL support anycast gateway.
C. FabricPath Permits ECMP, but TRILL does not
D. FabricPath permits active-active mode, but TRILL supports only active-standby mode.

Answer: B

NEW QUESTION 25
Refer to the exhibit.

Company XYZ BGP topology is as shown in the diagram. The interface on the LA router connected toward the 10.1.5.0/24 network is faulty and is going up and down, which affects the entire routing domain. Which routing technique can be used in the routing policy design so that the rest of the network is not affected by the flapping issue?

A. Use route dampening on LA router for the 10 1 5 0/24 network so that it does not get propagated when it flaps up and down
B. Use route filtering on Chicago router to block the 10.1.5.0/24 network from coming in from the LA router
C. Use route filtering on LA router to block the 10.15.0/24 network from getting propagated toward Chicago and New York
D. Use route aggregation on LA router to summarize the 10.1.4.0V24, 10.1.5.0724, 10.1.6.0/24. and 10.1.7.0/24 networks toward Chicago

Answer: D

NEW QUESTION 28
Which technology supports antispoofing and does not have any impact on encryption performance regardless of packet size?

A. MACsec
B. IP source guard
C. DHCP snooping with DAI
D. IPsec

Answer: A

NEW QUESTION 30
A company uses equipment from multiple vendors in a data center fabric to deliver SDN, enable maximum flexibility, and provide the best return on investment. Which YANG data model should be adopted for comprehensive features to simplify and streamline automation for the SDN fabric?

A. proprietary
B. OpenConfig
C. native
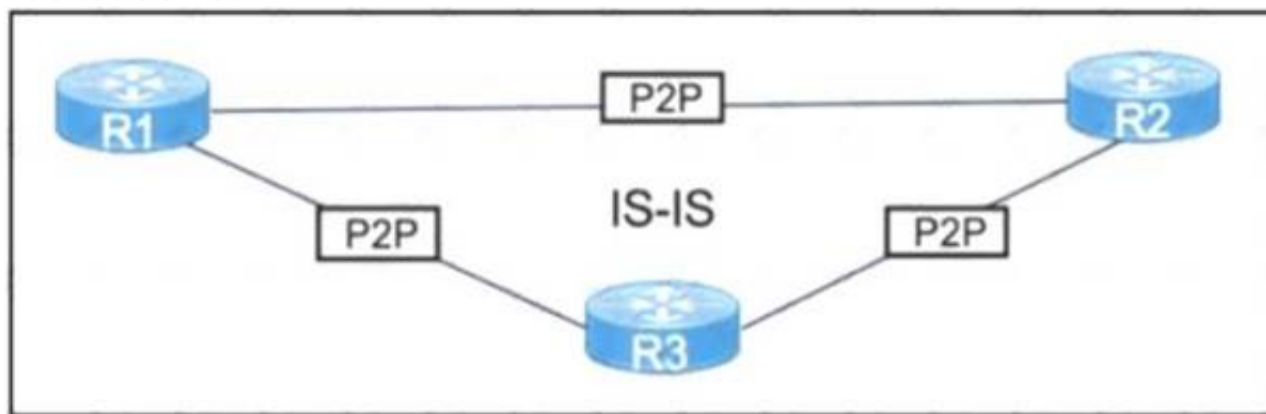D. IETF

Answer: B

NEW QUESTION 35
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

Answer: C

NEW QUESTION 36
Refer to the exhibit.

After a network audit a network engineer must optimize the current network convergence time The proposed solution must consider link layer and control plane failures. Which solution meets the requirements?

A. Configure debounce timers
B. Increase fast hello timers
C. Implement BFD
D. Enable LSP fast flood

Answer: C

NEW QUESTION 39
As part of workspace digitization, a large enterprise has migrated all their users to Desktop as a Sen/ice (DaaS), by hosting the backend system in their on-premises data center. Some of the branches have started to experience disconnections to the DaaS at periodic intervals, however, local users in the data center and head office do not experience this behavior. Which technology can be used to mitigate this issue?

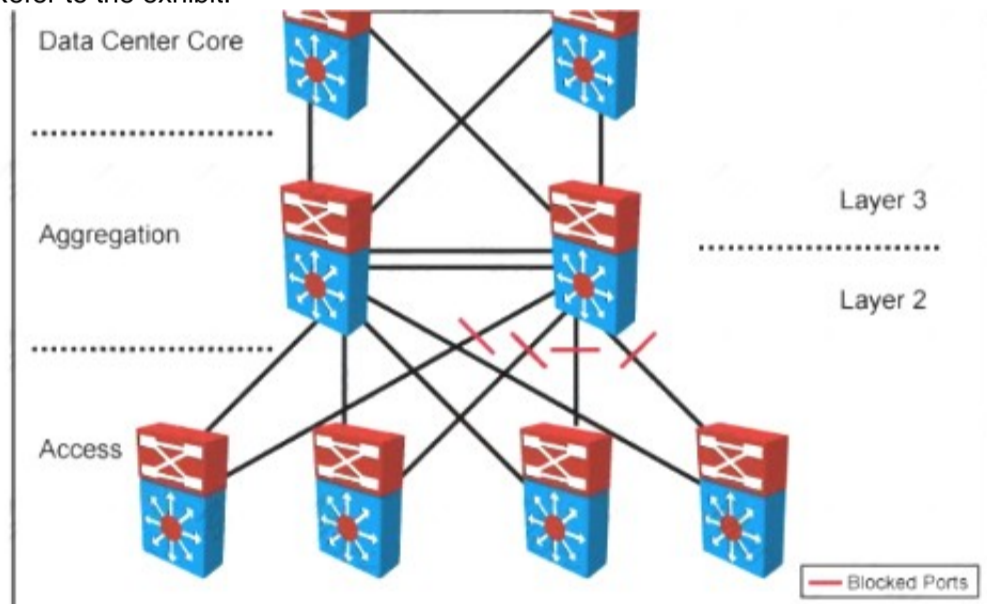A. tail drop
B. traffic shaping
C. WRED
D. traffic policing

Answer: B

Explanation:
Traffic Shaping does help with congestion and better bandwidth utilization over the WAN.

NEW QUESTION 44
Refer to the exhibit.

Your company designed a network to allow server VLANs to span all access switches in a data center In the design, Layer 3 VLAN interfaces and HSRP are configured on the aggregation switches Which two features improve STP stability within the network design? (Choose two.)

A. BPDU guard on access ports
B. BPDU guard on the aggregation switch downlinks toward access switches
C. root guard on the aggregation switch downlinks toward access switches
D. root guard on access ports
E. edge port on access ports
F. access switch pairs explicitly determined to be root and backup root bridges

Answer: AE

NEW QUESTION 45
Which two conditions must be met for EIGRP to maintain an alternate loop-free path to a remote network? (Choose two.)

A. The Reported Distance from a successor is lower than the local Feasible Distance.
B. The Reported Distance from a successor is higher than the local Feasible Distance.
C. The feasibility condition does not need to be met.
D. The Feasible Distance from a successor is lower than the local Reported Distance.
E. A feasible successor must be present.

Answer: AE

NEW QUESTION 46
Company XYZ needs advice in redesigning their legacy Layer 2 infrastructure. Which technology should be included in the design to minimize or avoid convergence delays due to STP or FHRP and provide a loop-free topology?

A. Use switch clustering in the access layer.
B. Use switch clustering in the core/distribution layer.
C. Use spanning-tree PortFast.
D. Use BFD.

Answer: B

NEW QUESTION 50
Which three Cisco products are used in conjunction with Red Hat to provide an NFVi solution? (Choose three.)

A. Cisco Prime Service Catalog
B. Cisco Open Virtual Switch
C. Cisco Nexus switches
D. Cisco UCS
E. Cisco Open Container Platform
F. Cisco Virtual Network Function

Answer: CDF

NEW QUESTION 54
Drag and drop the design characteristics from the left onto the correct network filter techniques on the right. Not all options are used.

A. Mastered
B. Not Mastered

Answer: A

Explanation:

NEW QUESTION 55
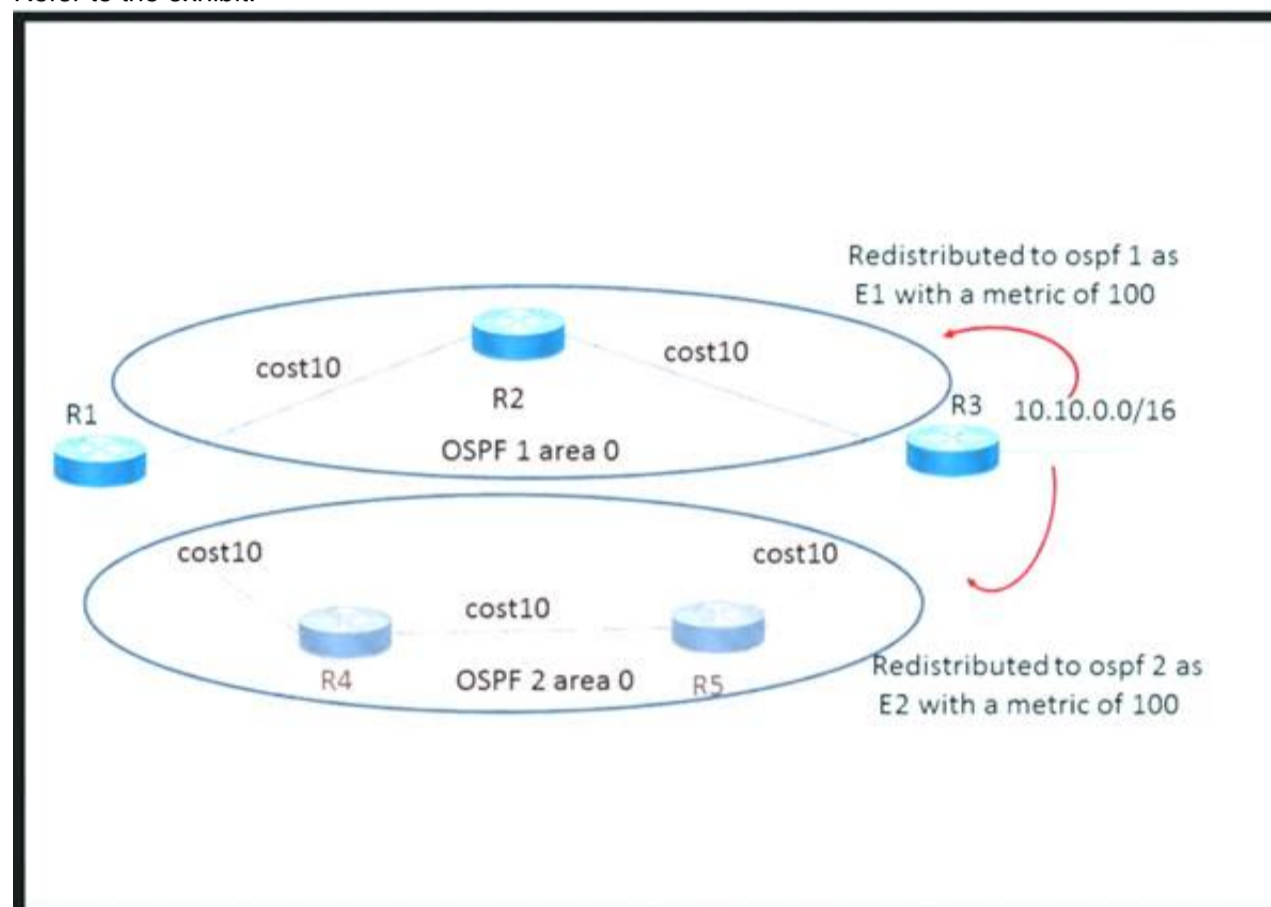The administrator of a small branch office wants to implement the Layer 2 network without running STP The office has some redundant paths Which mechanism can the administrator use to allow redundancy without creating Layer 2 loops?

A. Use double-sided VPC on both switches
B. Use two port channels as Flex links
C. Use fabric path with ECMP
D. Use 802.3ad link bundling.

Answer: B

NEW QUESTION 56
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

Answer: D

Explanation:
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

NEW QUESTION 57
A business wants to centralize services via VDI technology and to replace remote WAN desktop PCs with thin client-type machines to reduce operating costs Which consideration supports the new business requirement?

A. VDI servers should be contained centrally within a DMZ
B. The thin client traffic should be placed in a WAN QoS priority queue
C. VDI servers should be contained within dedicated VLANs in each branch location
D. The WAN should offer low latency and be resized

Answer: D

NEW QUESTION 61
Which two protocols are used bv SDN controllers to communicate with switches and routers? (Choose two)

A. OpenFlash
B. OpenFlow
C. NetFlash
D. Open vSwitch Database
E. NetFlow

Answer: BD

NEW QUESTION 62
Drag and drop the FCAPS network management reference models from the left onto the correct definitions on the right.

Fault Management	ensures that network transit quality remains at acceptable levels
Configuration Management	gathers usage statistics for users and business units
Accounting Management	gathers and stores configuration code from network devices
Performance Management	recognizes, isolates, corrects, and logs events that occur in the network
Security Management	controls access to assets in the network

A. Mastered
B. Not Mastered

Answer: A

Explanation:

Fault Management = Recognize, isolates, corrects, and logs events that occur in the network

Configuration Management = Gathers and stores configration code from network devices

Performance Management = ensures that network transit quality remains at acceptable laevels

Security Management = Controls access to assets in the network

Accounting Management = gathers usage statistics for users and business units

NEW QUESTION 63
Company XYZ is designing the IS-IS deployment strategy for their multiarea IS-IS domain. They want IS-IS neighbour relationships to be minimized on each network segment and want to optimize the size of the IS-IS LSDB on each router. Which can design can be used to meet these requirements?

A. Design all routers as Level 2 router
B. Set the links between the routers as Level 1 with the area
C. Design the network so that the routers connecting to other areas are Level 2 routers and internal routers are Level 1
D. Design the network so that all routers are Level 1 routers
E. Design the network so that the routers connecting to other areas are Level 1/Level 2 routers and internal routers are Level 1

Answer: D

NEW QUESTION 68
What is the most important operational driver when building a resilient and secure modular network design?

A. Reduce the frequency of failures requiring human intervention
B. Minimize app downtime
C. Increase time spent on developing new features
D. Dependencies on hardware or software that is difficult to scale

Answer: A

NEW QUESTION 73
What are two examples of business goals to be considered when a network design is built? (Choose two.)

A. standardize resiliency
B. minimize operational costs
C. integrate endpoint posture
D. ensure faster obsolescence
E. reduce complexity

Answer: BE

NEW QUESTION 74
An enterprise wants to migrate an on-premises network to a cloud network, and the design team is finalizing the overall migration process. Drag and drop the options from the left into the correct order on the right.

Identify the right applications and portfolio for cloud migration and cloud viability.	step 1
Maintain data integrity and operational continuity.	step 2
Adopt end-to-end approach and transition workloads to the cloud environment.	step 3
Develop cloud strategy and ensure alignment with business requirements.	step 4
Secure the cloud by setting up a secure cloud environment based on the workload requirements.	step 5
Monitor and manage cloud-based systems, including customer services.	step 6

A. Mastered
B. Not Mastered

Answer: A

Explanation:
Table Description automatically generated

NEW QUESTION 77
An enterprise has identified these causes for inefficient CAPEX spending:
➢ CAPEX planning is driven by technology and not by business objectives.
➢ The CAPEX planning team lacks the data it needs to perform due diligence tasks.
➢ The organizational structure lacks sufficient accountability and incentives.
Which corporate cultural change contributes to improving the effectiveness of CAPEX spending?

A. Build a financial control function that delivers high-quality reports on operational expenses for business insight and financial reporting.
B. CxO-level staff must have a full technical understanding but the should not trust their technical leaders fully.
C. Adopt new organizational models that promote real accountability for RO
D. not just revenu
E. EBITDA, and cash.
F. Marketing and product management divisions must reduce their CAPEX budgets significantly to drive the change.

Answer: C

NEW QUESTION 78
Company XYZ is revisiting the security design for their data center because they now have a requirement to control traffic within a subnet and implement deep packet inspection Which technology meets the updated requirements and can be incorporated into the design?

A. routed firewall
B. VLAN ACLs on the switch
C. transparent firewall
D. zone-based firewall on the Layer 3 device

Answer: C

NEW QUESTION 80
You have been asked to design a high-density wireless network for a university campus. Which two principles would you apply in order to maximize the wireless network capacity? (Choose two.)

A. Implement a four-channel design on 2.4 GHz to increase the number of available channels
B. Choose a high minimum data rate to reduce the duty cycle.
C. increases the number of SSIDs to load-balance the client traffic.
D. Make use of the 5-GHz band to reduce the spectrum utilization on 2.4 GHz when dual-band clients are used.
E. Enable 802.11n channel bonding on both 2.4 GHz and 5 GHz to increase the maximum aggregated cell throughput.

Answer: BD

NEW QUESTION 83
Which three items do you recommend for control plane hardening of an infrastructure device? (Choose three.)

A. redundant AAA servers
B. Control Plane Policing

C. warning banners
D. to enable unused .services
E. SNMPv3
F. routing protocol authentication

Answer: BEF

NEW QUESTION 86
Company XYZ wants to prevent switch loops caused by unidirectional point-point-link condition on Rapid FVST + and MST. Which technology can be used in the design to meet this requirement?

A. STPBPDU guard
B. STP bridge assurance
C. MSTP
D. TRILL

Answer: B

NEW QUESTION 89
Company XYZ is running SNMPv1 in their network and understands that it has some flaws. They want to change the security design to implement SNMPv3 in the network Which network threat is SNMPv3 effective against?

A. man-in-the-middle attack
B. masquerade threats
C. DDoS attack
D. brute force dictionary attack

Answer: D

NEW QUESTION 90
A service provider recently migrated to an SD-WAN solution for delivering WAN connections to its customers. One of the main challenges with the SD-WAN deployment is that branch site volume increases every year, which causes management complexity. Which action resolves the issue?

A. Implement a scalable network management system to manage all sites.
B. Adopt a well-structured SD-WAN service management lifecycle model
C. Build a service orchestration platform on top of the network controller
D. Set up a dedicated team to monitor and provision new customers

Answer: C

NEW QUESTION 93
Company XYZ Is running a redundant private WAN network using OSPF as the underlay protocol The current design accommodates for redundancy In the network, but it Is taking over 30 seconds for the network to reconverge upon failure Which technique can be Implemented In the design to detect such a failure in a subsecond?

A. STP
B. fate sharing
C. OSPF LFA
D. BFD
E. flex links

Answer: D

NEW QUESTION 94
Company XYZ is planning to deploy primary and secondary (disaster recovery) data center sites. Each of these sites will have redundant SAN fabrics and data protection is expected between the data center sites. The sites are 100 miles (160 km) apart and target RPO/RTO are 3 hrs and 24 hrs, respectively. Which two considerations must Company XYZ bear in mind when deploying replication in their scenario? (Choose two.)

A. Target RPO/RTO requirements cannot be met due to the one-way delay introduced by the distance between sites.
B. VSANs must be routed between sites to isolate fault domains and increase overall availability.
C. Synchronous data replication must be used to meet the business requirements
D. Asynchronous data replication should be used in this scenario to avoid performance impact in the primary site.
E. VSANs must be extended from the primary to the secondary site to improve performance and availability.

Answer: CD

Explanation:
synchronous data replication must be used to meet the business requirements, is incorrect. As described above, asynchronous replication would be a better choice in this scenario due to the distance between the data center sites and the target RPO/RTO requirements.
asynchronous data replication should be used in this scenario to avoid performance impact in the primary site, is correct. Asynchronous replication would allow Company XYZ to meet the target RPO/RTO requirements while avoiding the performance impact of synchronous replication.

NEW QUESTION 97
A business invests in SDN and develops its own SDN controller that, due to budget constraints, runs on a single controller. The controller actively places an exclusive lock on the configuration of the devices to ensure it is the only source of changes to the environment. What is the result if the controller fails?

A. All device configurations are in read-only mode until the controller is restored.

B. The control plane is unavailable until the controller is restored.
C. If a device fails, the configuration backup is unavailable
D. Manual changes are only possible until the controller is restored

Answer: B

NEW QUESTION 100
Which two features describe controller-based networking solutions compared to traditional networking solutions? (Choose two.)

A. inflate licensing costs
B. reduce network configuration complexity
C. provide centralization of primary IT functions
D. allow for fewer network failures
E. increase network bandwidth usage

Answer: BC

NEW QUESTION 104
Company XYZ plans to run OSPF on a DMVPN network. They want to use spoke-to-spoke tunnels in the design What is a drawback or concern in this type of design?

A. Additional host routes will be inserted into the routing tables
B. Manual configuration of the spokes with the appropriate priority will be needed
C. There will be split-horizon issue at the hub
D. Manual configuration of the spoke IP address on the hub will be needed

Answer: B

NEW QUESTION 107
Which design solution reduces the amount of IGMP state in the network?

A. IGMP filtering
B. IGMPv3 with PIM-SSM
C. multiple multicast domains
D. one multicast group address thorough network regardless of IGMP version

Answer: A

NEW QUESTION 108
Which two factors provide multifactor authentication for secure access to applications and data, no matter where the users are or which devices they are on? (Choose two.)

A. persona-based
B. power-based
C. push-based
D. possession-based
E. pull-based

Answer: CD

NEW QUESTION 112
Which design principal improves network resiliency?

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

Answer: B

NEW QUESTION 115
Company XYZ is designing the network for IPv6 security and they have these design requirements:

➢ A switch or router must deny access to traffic from sources with addresses that are correct, but are topologically incorrect

➢ Devices must block Neighbor Discovery Protocol resolution for destination addresses that are not found in the binding table.
Which two IPv4 security features are recommended for this company? (Choose two)

A. IPv6 DHCP Guard
B. IPv6 Source Guard
C. IPv6 Destination Guard
D. IPv6 Prefix Guard
E. IPv6 RA Guard

Answer: CD

Explanation:
https://www.cisco.com/c/dam/global/ja_jp/td/docs/ios-xml/ios/ipv6_fhsec/configuration/xe-16/ip6f-xe-16-book.

NEW QUESTION 116
Which feature is supported by NETCONF but is not supported by SNMP?

A. distinguishing between configuration data and operational data
B. taking administrative actions
C. collecting the status of specific fields
D. changing the configuration of specific fields

Answer: A

NEW QUESTION 119
A European national bank considers migrating its on-premises systems to a private cloud offering in a non-European location to significantly reduce IT costs. What is a primary factor prior to migration?

A. data governance
B. additional latency
C. security
D. cloud connectivity

Answer: C

NEW QUESTION 121
What are two top cloud-native security challenges faced by today's cloud-oriented organizations? (Choose two.)

A. establishing user roles
B. polymorphism
C. lack of visibility and tracking
D. increased attack surface
E. user credential validation

Answer: CD

NEW QUESTION 126
A key to maintaining a highly available network is building in the appropriate redundancy to protect against failure. This redundancy is carefully balanced with the inherent complexity of redundant systems. Which design consideration is relevant for enterprise WAN use cases when it comes to resiliency?

A. Design in a way that expects outages and attacks on the network and its protected resources
B. The design approach should consider simple and centralized management aspect
C. Design in a way that it simplifies and improves ease of deployment
D. Design automation tools wherever it is appropriate for greater visibility

Answer: A

NEW QUESTION 128
Which two statements explain the operation of BFD asynchronous mode? (Choose two)

A. BFD asynchronous mode with echo packets combines the control packets and echo packets into a single packet.
B. BFD asynchronous mode without echo packets uses control packets, and BFD asynchronous mode with echo packets does not.
C. BFD asynchronous mode with and without echo packets use control packets.
D. BFD asynchronous without echo packets has control packets sent back to the originating router, which echoes the control packet to detect failures.
E. BFD asynchronous mode with echo packets uses separate control packets and echo packets.

Answer: CE

NEW QUESTION 130
Which component of the SDN architecture automatically ensures that application traffic is routed according to policies established by network administrators?

A. packet forwarding engine
B. northbound API
C. southbound API
D. SDN controller

Answer: D

NEW QUESTION 134
IPFIX data collection via standalone IPFIX probes is an alternative to flow collection from routers and switches. Which use case is suitable for using IPFIX probes?\

A. performance monitoring
B. security
C. observation of critical links
D. capacity planning

Answer: A

NEW QUESTION 135
Which two possible drawbacks should you consider when introducing Network Functions Virtualization in a network design? (Choose two)

A. Bandwidth utilization increases
B. Traffic flows are suboptimal
C. High-end routers are required to support NFV
D. OpenFlow must be supported in the network
E. An SDN orchestration layer is required to support NFV

Answer: CE

NEW QUESTION 136
You have been tasked with designing a data center interconnect as part of business continuity You want to use FCoE over this DCI to support synchronous replication. Which two technologies allow for FCoE via lossless Ethernet or data center bridging? (Choose two.)

A. DWDM
B. EoMPLS
C. SONET/SDH
D. Multichassis EtherChannel over Pseudowire
E. VPLS

Answer: AC

NEW QUESTION 141
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

Answer: A

NEW QUESTION 145
Customer XYZ network consists of an MPLS core. IS-IS running as IGP a pair of BGP route reflectors for route propagation, and a few dozens of MPLS-TE tunnels for specific tactical traffic engineering requirements. The customer's engineering department has some questions about the use of the Overload Bit in the IS-IS networks and how it could be used to improve their current network design. Which two concepts about the Overload Bit are true? (Choose two.)

A. It can be set on a router during the startup process for a fixed period of time
B. Networks advertised within the LSPs of the respective node will become unreachable
C. It forces the midpoint MPLS-TE node to reoptimize the primary tunnels going through the OL node.
D. It can be set on a router until other interacting protocols have signaled convergence.
E. It is not recommended on BGP Route Reflectors

Answer: AD

NEW QUESTION 148
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

Answer: CD

NEW QUESTION 150
The SD-WAN architecture is composed of separate orchestration management, control, and data planes Which activity happens at the orchestration plane?

A. automatic onboarding of the SD-WAN routers into the SD-WAN overlay
B. decision-making process on where traffic flows
C. packet forwarding
D. central configuration and monitoring

Answer: D

NEW QUESTION 154
A network security team observes phishing attacks on a user machine from a remote location. The organization has a policy of saving confidential data on two different systems using different types of authentication. What is the next step to control such events after the security team verifies all users in Zero Trust modeling?

A. Enforce risk-based and adaptive access policies.
B. Assess real-time security health of devices.
C. Apply a context-based network access control policy for users.
D. Ensure trustworthiness of devices.

Answer: B

NEW QUESTION 156
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

Answer: AD

NEW QUESTION 160
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.

Answer: A

NEW QUESTION 164
Which aspect of BGP-LS makes it scalable in large network when multiarea topology information must be gathered?

A. transmit flow control
B. open-loop flow control
C. hardware flow control
D. TCP-based flow control

Answer: A

NEW QUESTION 165
Which two actions must be taken when assessing an existing wireless network implementation for its readiness to support voice traffic? (Choose two.)

A. Check for high roaming delay.
B. Check for uniform radio coverage across the floors.
C. Check for high channel utilization.
D. Check for latency over wireless.
E. Identify frequent TX power changes.

Answer: AC

Explanation:
https://community.cisco.com/t5/wireless/channel-utilization/td-p/2716667
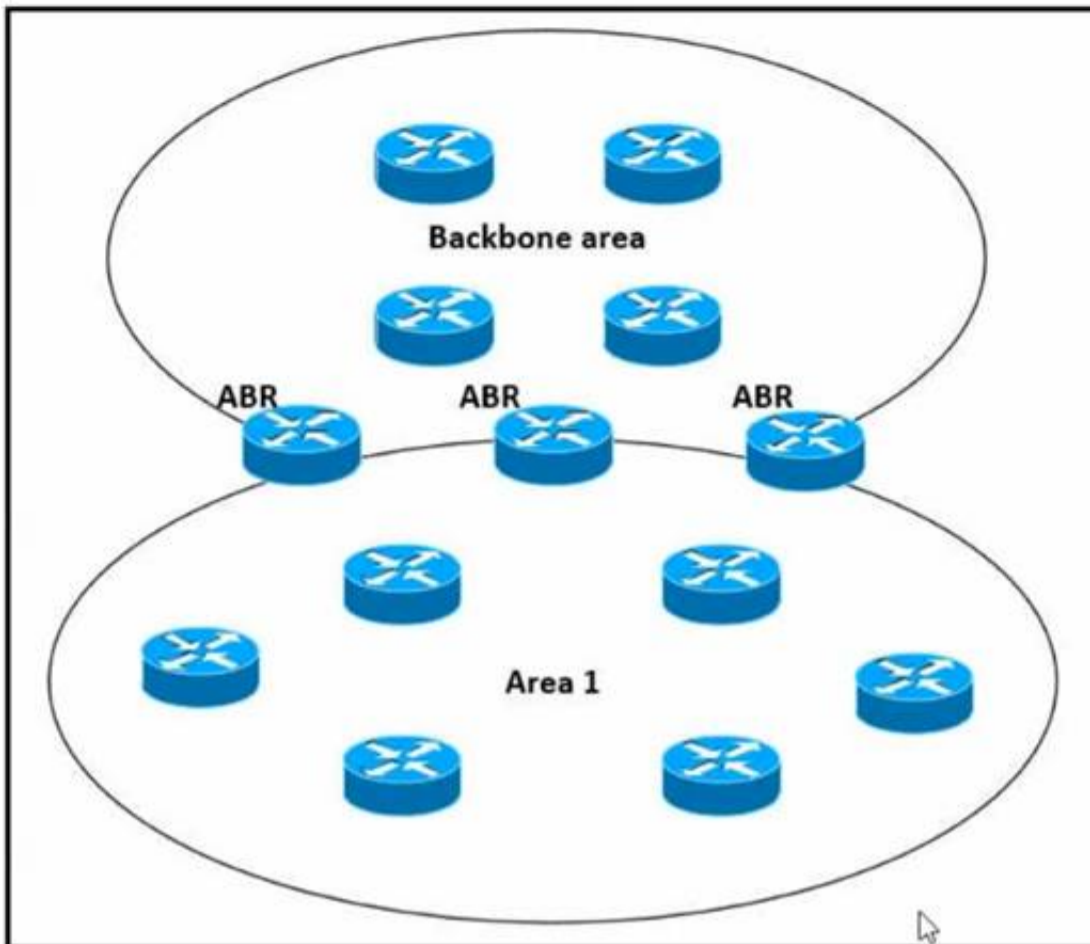

NEW QUESTION 170
Which two factors must be considered for high availability in campus LAN designs to mitigate concerns about unavailability of network resources? (Choose two.)

A. device resiliency
B. device type
C. network type
D. network resiliency
E. network size

Answer: AD

NEW QUESTION 171
Refer to the exhibit.

Which impact of using three or more ABRs between the backbone area and area 1 is true?

A. In a large-scale network LSA replication by all ABRs can cause serious scalability issues
B. Multiple ABRs reduce the CPU processing on each A6R due to splitting prefix advertisement
C. In a large-scale network multiple ABRs can create microloops.
D. Prefixes from the non-backbone area are advertised by one ABR to the backbone

Answer: A

NEW QUESTION 173
Company XYZ has implemented policy-based routing in their network. Which potential problem must be kept in mind about network reconvergence and PBR?

A. It can limit network scalability
B. It can create microloops during reconvergence
C. It increases convergence time.
D. It reduces convergence time.

Answer: B

NEW QUESTION 177
In the case of outsourced IT services, the RTO is defined within the SLA. Which two support terms are often included in the SLA by IT and other service providers? (Choose two.)

A. network size and cost
B. support availability
C. network sustainability
D. network reliability
E. resolution time

Answer: BE

NEW QUESTION 178
Which mechanism provides Layer 2 fault isolation between data centers?

A. fabric path
B. OTL
C. advanced VPLS
D. LISP
E. TRILL

Answer: D

NEW QUESTION 182
An engineer is designing the QoS strategy for Company XYZ. Based on initial analysis, a lot of scavenger type of traffic is traversing the network's 20Mb Internet link toward the service provider. The new design must use a QoS technique that limits scavenger traffic to 2 Mbps, which helps avoid oversubscription of the link during times of congestion. Which QoS technique can be used to facilitate this requirement?

A. class-based traffic policing
B. LLQ
C. CBWFQ
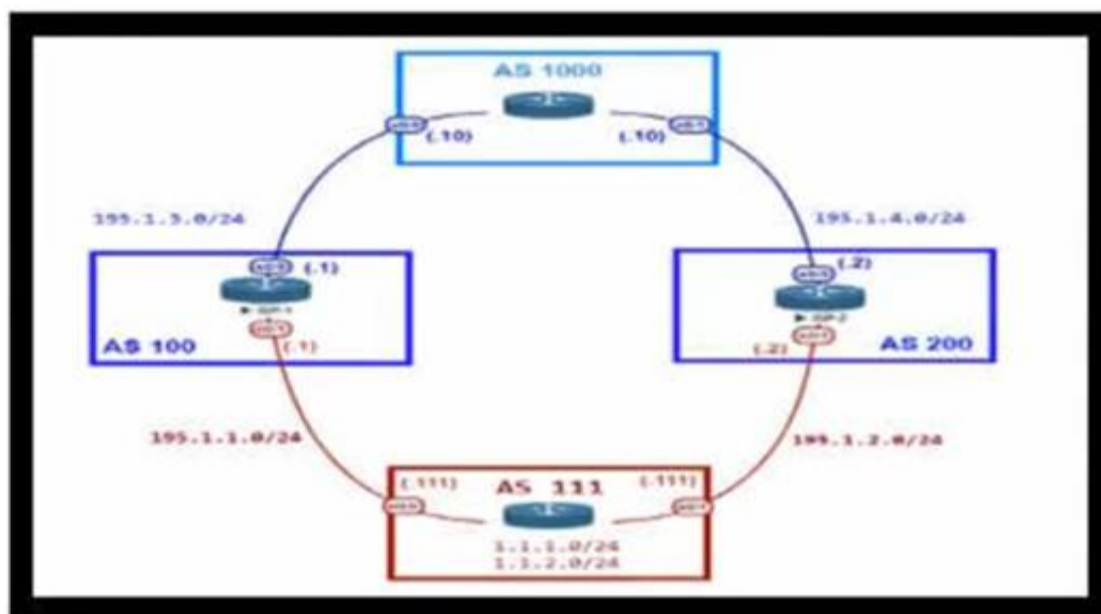D. class-based traffic shaping

Answer: D

NEW QUESTION 186
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

Answer: BE

NEW QUESTION 191
Refer to the exhibit.

An engineer is designing the network for a multihomed customer running in AS 111 does not have any other Ass connected to it. Which technology is more comprehensive to use in the design to make sure that the AS is not being used as a transit AS?

A. Configure the AS-set attribute to allow only routes from AS 111 to be propagated to the neighbor ASs.
B. Use the local preference attribute to configure your AS as a non-transit'' AS.
C. include an AS path access list to send routes to the neighboring ASs that only have AS 111 in the AS path field.
D. Include a prefix list to only receive routes from neighboring ASs.

Answer: C

NEW QUESTION 192
Company XYZ was not satisfied with the reconvergence time OSPF is taking. BFD was implemented to try to reduce the reconvergence time, but the network is still experiencing delays when having to reconverge. Which technology will improve the design?

A. OSPF fast hellos
B. BFD echo
C. Change the protocol to BGP
D. Change the OSPF hello and dead intervals

Answer: B

NEW QUESTION 196
During evaluation of migrating current on premises infrastructure to add cloud-based infrastructure, a network planning team must meet three core requirements as they make recommendations on which cloud strategy to adopt going forward
• Technology is changing rapidly, therefore the enterprise must be open to adopting new ways of doing things, and be ready to invest CapEx-funds in the next three years
• Network bandwidth capacity requirements are dynamic and are expected to change over the next year
• If new technologies are to be introduced, operational expenses must be kept at a minimum.
Which cloud strategy meets these requirements?

A. private
B. hybrid
C. public
D. multicloud

Answer: D

NEW QUESTION 198
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

Answer: B

NEW QUESTION 203
Company XYZ is designing their network using the three-layer hierarchical model. At which layer must the QoS design classify or mark the traffic?

A. access
B. core
C. collapsed core
D. distribution

Answer: A

NEW QUESTION 205
Which action must be taken before new VoIP systems are implemented on a network to ensure that the network is ready to handle the traffic?

A. Evaluate bandwidth utilization and connection quality
B. Enable special requirements such as direct DID lines on pickup
C. Make recommendations to limit the size of the half-open session table on routers
D. Check if anomaly detection is enabled for SIP and H.323 on Layer 3 devices

Answer: B

NEW QUESTION 208
Which extensions to GRE tunneling provide session tracking and in-order packet delivery in exchange for additional state stored in tunnel endpoints?

A. GRE Protocol Type and Checksum extension fields.
B. GRE Version and Reserved0 extension fields.
C. No extension fields are available in the GRE header to track session data and packet sequences.
D. GRE Key and Sequence number extensions.

Answer: D

NEW QUESTION 212
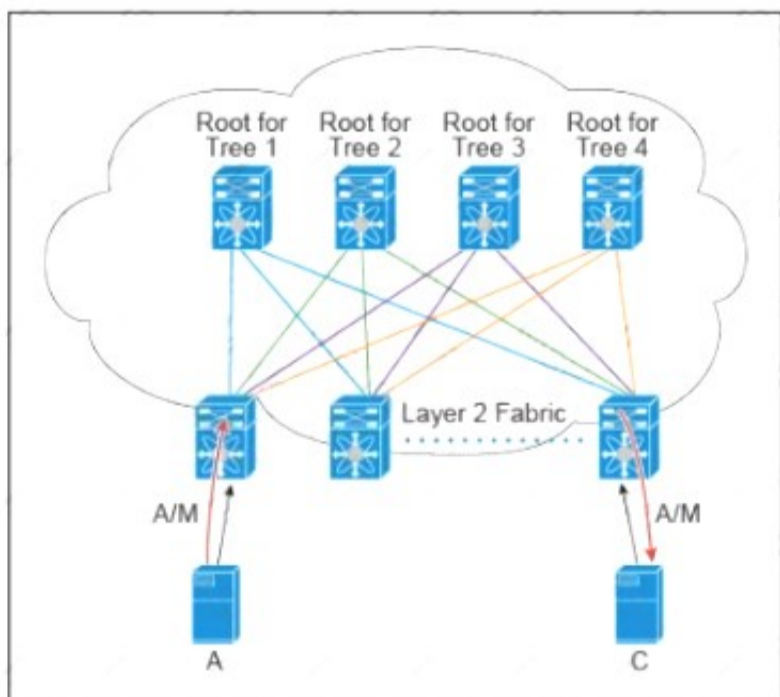Which optimal use of interface dampening on a fast convergence network design is true?

A. When occasional flaps of long duration occur
B. when numerous adjacent flaps of very short duration occur
C. when the router hardware it slower than the carrier delay down detection
D. when the switch hardware is faster than the debounce timer down detection

Answer: B

NEW QUESTION 213
Refer to the exhibit.

There are multiple trees in the Cisco FabricPath All switches in the Layer 2 fabric share the same view of each tree. Which two concepts describe how the multicast traffic is load-balanced across this topology? (Choose two)

A. A specific (S.G) traffic is not load-balanced
B. All trees are utilized at the same level of the traffic rate
C. Every leaf node assigns the specific (S.G) to the same tree.
D. A specific (S.G) multicast traffic is load-balanced across all trees due to better link utilization efficiency.
E. The multicast traffic is generally load-balanced across all trees

Answer: BD

NEW QUESTION 216
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

Answer: D

NEW QUESTION 217
What are two key design principles when using a hierarchical core-distribution-access network model? (Choose two)

A. A hierarchical network design model aids fault isolation
B. The core layer is designed first, followed by the distribution layer and then the access layer
C. The core layer provides server access in a small campus.
D. A hierarchical network design facilitates changes
E. The core layer controls access to resources for security

Answer: AD

NEW QUESTION 222
Company XYZ is running BGP as their routing protocol. An external design consultant recommends that TCP path MTU discovery be enabled. Which effect will this have on the network?

A. It will enhance the performance of TCP-based applications.
B. It will increase the convergence time.
C. It will improve the convergence time.
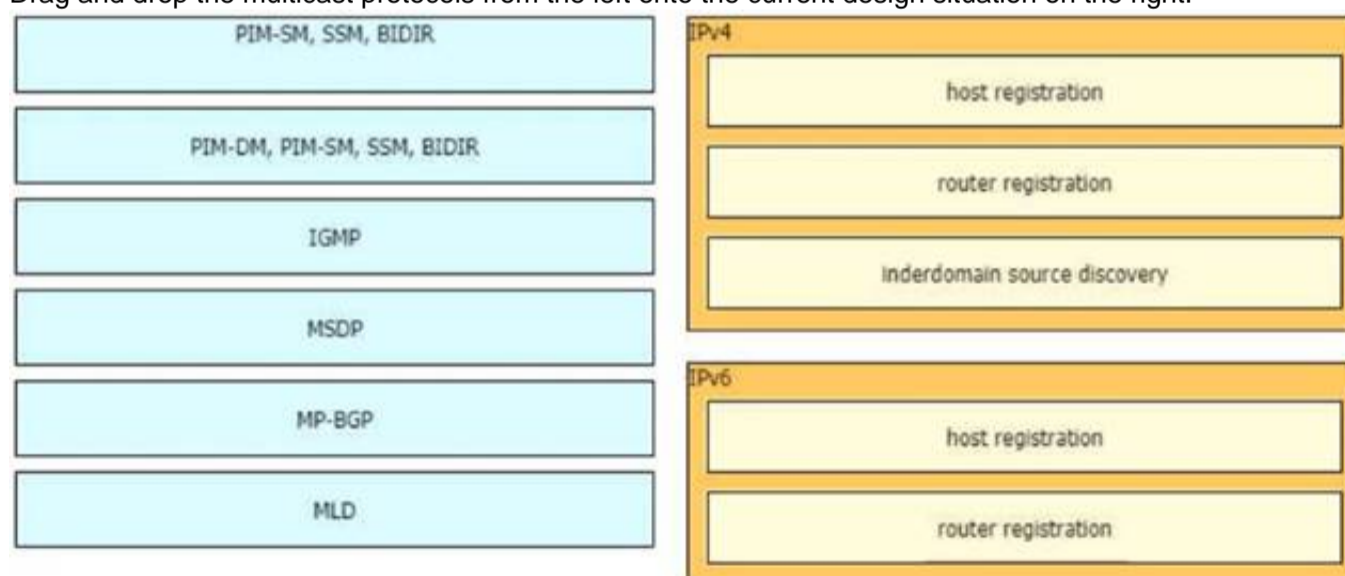D. It will create a loop free path.

Answer: A

NEW QUESTION 227
Which two aspects are considered when designing a dual hub dual DMVPN cloud topology? (Choose two)

A. will only work with single-tier headend architecture
B. hub sites must connect to both DMVPN clouds
C. recommended for high availability
D. spoke-to-spoke traffic will transit the hub unless spokes exchange dynamic routing directly
E. requires all sites to have dual Internet connections

Answer: AC

NEW QUESTION 228
Drag and drop the multicast protocols from the left onto the current design situation on the right.

A. Mastered
B. Not Mastered

Answer: A

Explanation:
A picture containing table Description automatically generated

NEW QUESTION 233
What advantage of placing the IS-IS layer 2 flooding domain boundary at the core Layer in a three-layer hierarchical network is true?

A. The Layer 1 and Layer 2 domains can easily overlap

B. It reduces the complexity of the Layer 1 domains
C. It can be applied to any kind of topology
D. The Layer 2 domain is contained and more stable

Answer: D

NEW QUESTION 234
Refer to the table.

CONNECTIVITY	CAPEX	OPEX ANNUAL	INSTALLATION FEE	TERM
DWDM over dark fiber	$200,000	$100,000	$30,000	12 months
CWDM over dark fiber	$150,000	$100,000	$25,000	18 months
MPLS wires only	$50,000	$180,000	$5,000	12 months
Metro Ethernet	$65,000	$100,000	$5,000	36 months

A customer investigates connectivity options for a DCI between two production data centers to aid a
large-scale migration project. The migration is estimated to take 20 months to complete but might extend an additional 10 months if issues arise. All connectivity options meet the requirements to migrate workloads. Which transport technology provides the best ROI based on cost and flexibility?

A. CWDM over dark fiber
B. MPLS
C. DWDM over dark fiber
D. Metro Ethernet

Answer: D

NEW QUESTION 235
Your company wants to deploy a new data center infrastructure Based on the requirements you have chosen VXLAN as encapsulation technology The customer is concerned about miss-configuration of Layer 2 devices and DC wide outages caused by Layer 2 loops What do you answer?

A. VXLAN offers native loop avoidance mechanism
B. Storm Control should be enabled on all ports
C. VPC+ could prevent L2 loop on access ports
D. BPDU Guard should be enabled on all VTEP access ports

Answer: D

NEW QUESTION 240
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

Answer: D

NEW QUESTION 244
You are designing an Out of Band Cisco Network Admission Control. Layer 3 Real-IP Gateway deployment for a customer Which VLAN must be trunked back to the Clean Access Server from the access switch?

A. authentication VLAN
B. user VLAN
C. untrusted VLAN
D. management VLAN

Answer: D

NEW QUESTION 246
Which two statements describe the functionality of OSPF packet-pacing timers? (Choose two) The group-pacing timer controls the interval that is used for group and individual LSA refreshment

A. OSPF flood-pacing timers allow dynamic control of the OSPF transmission queue size
B. OSPF retransmission-pacing timers allow control of interpacket spaang between consecutive link-state update packets in the OSPF retransmission queue.
C. OSPF retransmission-pacing timers allow control of packet interleaving between nonconsecutive link-state update packets in the OSPF retransmission queue.
D. OSPF flood-pacing timers allow control of interpacket spacing between consecutive link-state update packets in the OSPF transmission queue
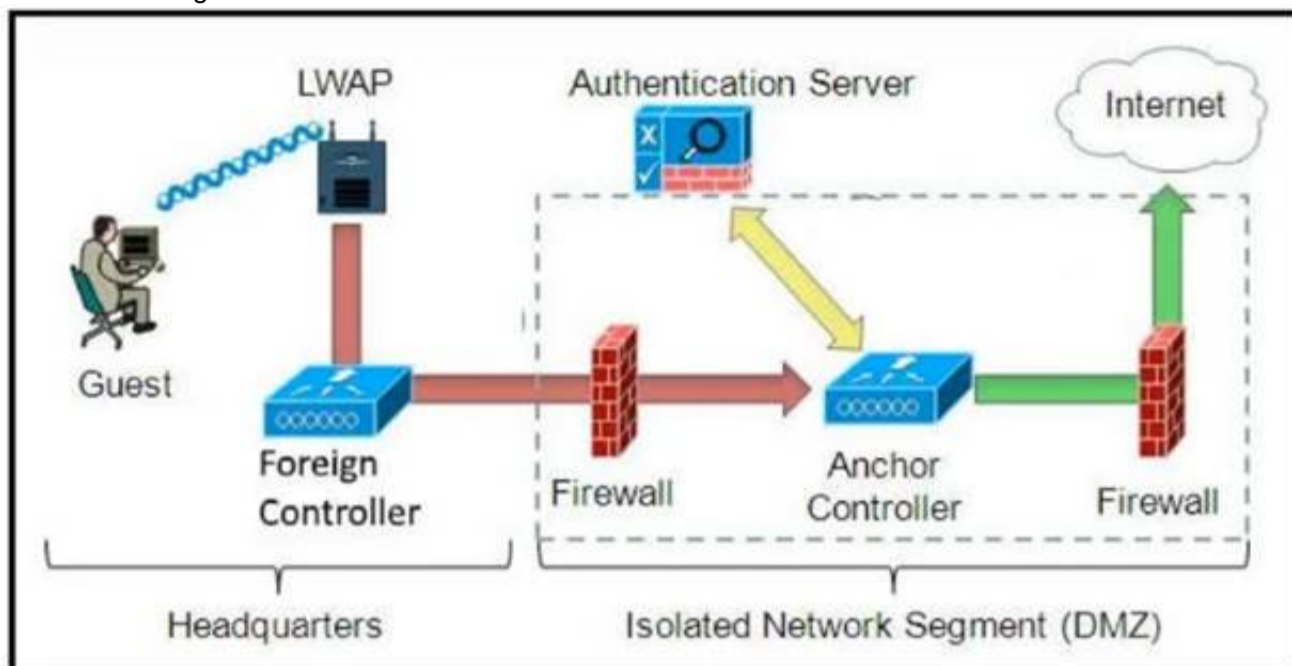
Answer: BD

NEW QUESTION 248
Which mechanism enables small, unmanaged switches to plug into ports of access switches without risking switch loops?

A. PortFast
B. UDLD
C. Root guard
D. BPDU guard

Answer: D

NEW QUESTION 251
Refer to the diagram.

Which solution must be used to send traffic from the foreign wireless LAN controller to the anchor wireless LAN controller?

A. Send packets from the foreign controller to the anchor controller via Layer 3 MPLS VPN or VRF-Lite
B. Send packets without encapsulation to the anchor controller over the routed network.
C. Encapsulate packets into an EoIP tunnel and send them to the anchor controller.
D. Send packets from the foreign controller to the anchor controller via IPinIP or IPsec tunnel.

Answer: C

NEW QUESTION 254
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

Answer: C

NEW QUESTION 258
An enterprise campus is adopting a network virtualization design solution with these requirements
≫ It must include the ability to virtualize the data plane and control plane by using VLANs and VRFs
≫ It must maintain end-to-end logical path transport separation across the network
≫ resources available grouped at the access edge
Which two primary models can this network virtualization design be categorized? (Choose two)

A. Path isolation
B. Session isolation
C. Group virtualization
D. Services virtualization
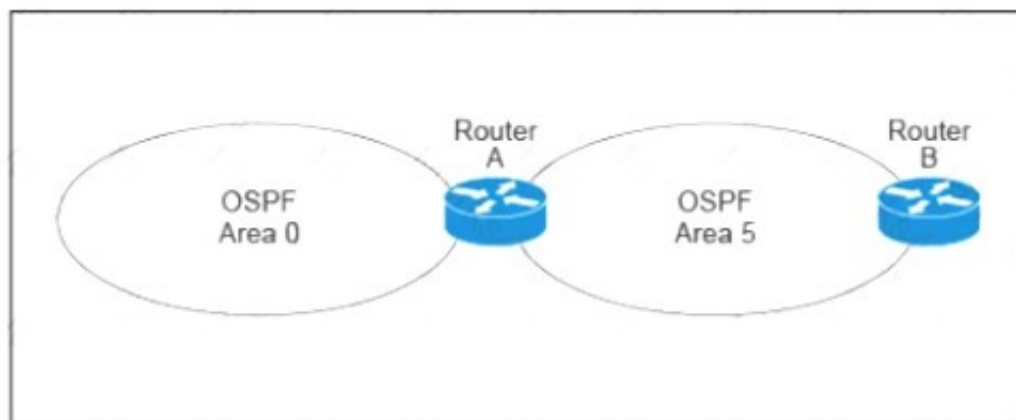E. Edge isolation

Answer: AD

NEW QUESTION 262
What is a description of a control plane action?

A. de-encapsulating and re-encapsulating a packet in a data-link frame
B. matching the destination MAC address of an Ethernet frame to the MAC address table
C. matching the destination IP address of an IP packet to the IP routing table
D. hosts locating routers that reside on attached links using the IPv6 Neighbor Discover Protocol
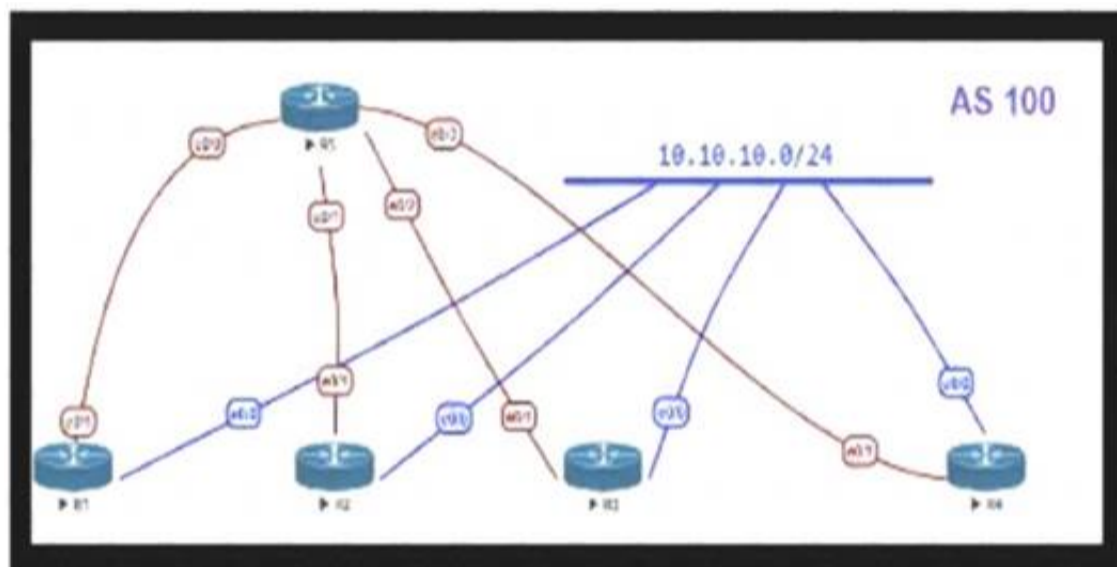
Answer: D

NEW QUESTION 267
Refer to the exhibit.

A customer runs OSPF with Area 5 between its aggregation router and an internal router When a network change occurs in the backbone. Area 5 starts having connectivity issues due to the SPF algorithm recalculating an abnormal number of times in Area 5 You are tasked to redesign this network to increase resiliency on the customer network with the caveat that Router B does not support the stub area How can you accomplish this task*?

A. Increase the bandwidth on the connection between Router A and Router B
B. Implement LSA filtering ontheAB, allowing summary routes and preventing more specific routes into Area 5
C. Create a virtual link to Area 0 from Router B to the ABR
D. Turn on LSA throttling on all devices in Area 5
E. Set Area 5 to stubby at the ABR anyway

Answer: B

NEW QUESTION 269
Refer to the exhibit.

OSPF is running as the IGP to provide reachability to all AS100 networks R3 and R4 are the current ABRs at the boundary of OSPF Area0 and Areal Now BGP must be deployed within AS 100 because it will be receiving Internet routes from its eBGP peers (the service provider) connected to R1 and R2 What is an optimal solution for this deployment to configure BGP relationships and redistribute BGP learned routes into OSPF?

A. R5 should be configured as a route reflector for R1, R2, R3 and R4. BGP routes must be redistributed at R1 and R2 into OSPF.
B. Configuration should be set up with R1 and R2, and R3 in one sub AS, with and R4 in another, and redistribution at R1 and R2.
C. A full mesh should be deployed between all the routers with mutual redistribution to take place at R1 and R2.
D. R1, R2, R3 and R4 must be set up with a neighbor relationship with R5 only must not be a route reflector.

Answer: C

NEW QUESTION 271
Company XYZ is redesigning their QoS policy. Some of the applications used by the company are real-time applications. The QoS design must give these applications preference in terms of transmission. Which QoS strategy can be used to fulfill the requirement?

A. weighted fair queuing
B. weighted random early detection
C. low-latency queuing
D. first-in first-out

Answer: C

NEW QUESTION 276
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.

Answer: D

NEW QUESTION 280
Drag and drop the multicast protocols from the left onto the current design situation on the right.

PIM-SM, SSM, BIDIR		IPv4 Group Management
PIM-DM, PIM-SM, SSM, BIDIR		IPv4 Forwarding
IGMP		IPv4 Interdomain Source Discovery
MSDP		IPv6 Group Management
MLD		IPv6 Forwarding

A. Mastered
B. Not Mastered

Answer: A

Explanation:
A picture containing table Description automatically generated
IPv4:
Host Registration - IGMP
Router Registration - PIM-DM, PIM-SM, SSM, BIDIR Inter-Domain Source Discovery - MSDP
IPv6:
Host Registration - MLD
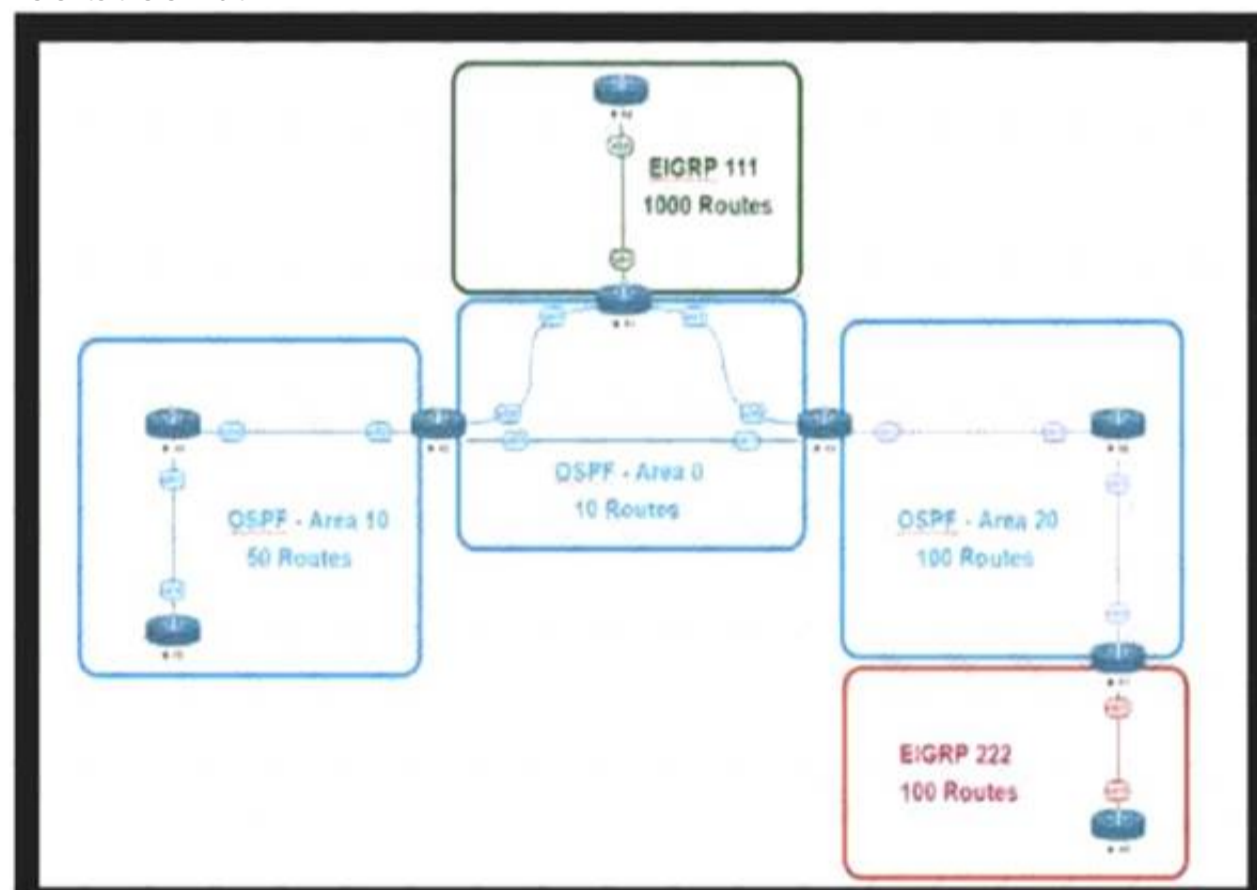Router Registration - PIM-SM, SSM, BIDIR

NEW QUESTION 283
What best describes the difference between Automation and Orchestration?

A. Automation refers to an automatic process for completing a single task and Orchestration refers to assembling and coordinating a set of tasks and conditions.
B. Automation describes a hands-off configuration process while Orchestration refers to sets of automation tasks that require the network administrator to coordinate
C. Automation refers to an automatic process for completing multiple tasks with conditions and Orchestration refers to executing tasks in parallel.
D. Automation refers to scripting languages (Pytho
E. Ansible etc.) and Orchestration refers to commercial products that control configuration deployment

Answer: A

NEW QUESTION 287
Refer to the exhibit.

This network is running OSPF and EIGRP as the routing protocols Mutual redistribution of the routing protocols has been contoured on the appropriate ASBRs The OSPF network must be designed so that flapping routes m EIGRP domains do not affect the SPF runs within OSPF The design solution must not affect the way EIGRP routes are propagated into the EIGRP domains Which technique accomplishes the requirement?

A. route summarization the ASBR interfaces facing the OSPF domain
B. route summarization on the appropriate ASBRS.
C. route summarization on the appropriate ABRS.
D. route summarization on EIDRP routers connecting toward the ASBR

Answer: B

NEW QUESTION 288
SDN emerged as a technology trend that attracted many industries to move from traditional networks to SDN. Which challenge is solved by SDN for cloud service providers?

A. need for intelligent traffic monitoring
B. exponential growth of resource-intensive application
C. complex and distributed management flow
D. higher operating expense and capital expenditure

Answer: B

NEW QUESTION 292
Company XYZ is running OSPF in their network. They have merged with another company that is running EIGRP as the routing protocol. Company XYZ now needs the two domains to talk to each other with redundancy, while maintaining a loop free environment. The solution must scale when new networks are added into the network in the near future. Which technology can be used to meet these requirements?

A. multipoint route-redistribution with route filtering using ACLs
B. DUMP multipoint route-redistribution with route filtering using route tags
C. DUMPS single point route-redistribution with route filtering using route tags
D. DUMPS single point route-redistribution with route filtering using ACLs

Answer: B

NEW QUESTION 294
The Company XYZ network requires OSPF dead neighbor detection in a subsecond manner However the company network does not support BFD Which other feature can be used to fulfill the design requirement?

A. STP
B. fast hello
C. LFA
D. DPD

Answer: B

NEW QUESTION 298
Various teams in different organizations within an enterprise are preparing low-level design documents to capture network parameters using a Waterfall project model:
• hardware sizing and power consumption
• Layer 2 and layer 3 services parameters
• configuration of all control plane protocols
Input from relevant stakeholders was captured at the start of the project, and the project scope has been defined based on the parameters above. What impact will it have on documentation and project deliverables if the stakeholders ask to have changes carried out in the network before the information has been captured?

A. This provides more opportunity to think outside the box.
B. Rework is expected before the delivery.
C. Significant effort and time are required.
D. This provides a flexible approach to incorporate changes.

Answer: B

NEW QUESTION 302
Which two types of planning approaches are used to develop business-driven network designs and to facilitate the design decisions? (Choose two)

A. cost optimization approach
B. strategic planning approach
C. modular approach
D. tactical planning approach
E. business optimization approach

Answer: BD

NEW QUESTION 307
Which network management framework can be used to develop a network architecture that contains business requirements analysis, gap analysis, and network diagrams as artifacts to be used for design and implementation later?

A. TOG
B. ITIL
C. FCAPS
D. Cobit

Answer: A

NEW QUESTION 308

Drag and drop the optical technology design characteristics on the left to the correct optical technologies on the right. Not all options are used

suited for short-haul and long-haul distances
number of channels can be 40 or more
large channel spacing (2500 Ghz)
small channel spacing (100 or 50 Ghz)
suited for short-haul, typically limited to Metropolitan networks
maximum of 16 channels
only suitable for ring or dual-ring topology

CWDM (Coarse Wavelength Division Multiplexing)

target 1
target 2
target 3

DWDM (Dense Wavelength Division Multiplexing)

target 4
target 5
target 6

A. Mastered
B. Not Mastered

Answer: A

Explanation:
1 - target 4
2 - target 5
3 - target 1
4 - target 6
5 - target 2
6 - target 3

NEW QUESTION 313
The General Bank of Greece plans to upgrade its legacy end-of-life WAN network with a new flexible, manageable, and scalable solution. The mam requirements are ZTP support, end-to-end encryption application awareness and segmentation. The CTO states that the main goal of the bank is CAPEX reduction. Which WAN technology should be used for the solution?

A. SD-branch
B. DMVPN with PfR
C. managed SD-WAN
D. SD-WAN

Answer: C

NEW QUESTION 318
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