Cisco

Exam Questions 400-007

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

NEW QUESTION 1
An enterprise that runs numerous proprietary applications has major issues with its on-premises server estate hardware, to the point where business-critical functions are compromised. The enterprise accelerates plans to migrate services to the cloud. Which cloud service should be used if the enterprise wants to avoid hardware issues yet have control of its applications and operating system?

A. SaaS
B. PaaS
C. laaS
D. hybrid cloud

Answer: C

NEW QUESTION 2
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
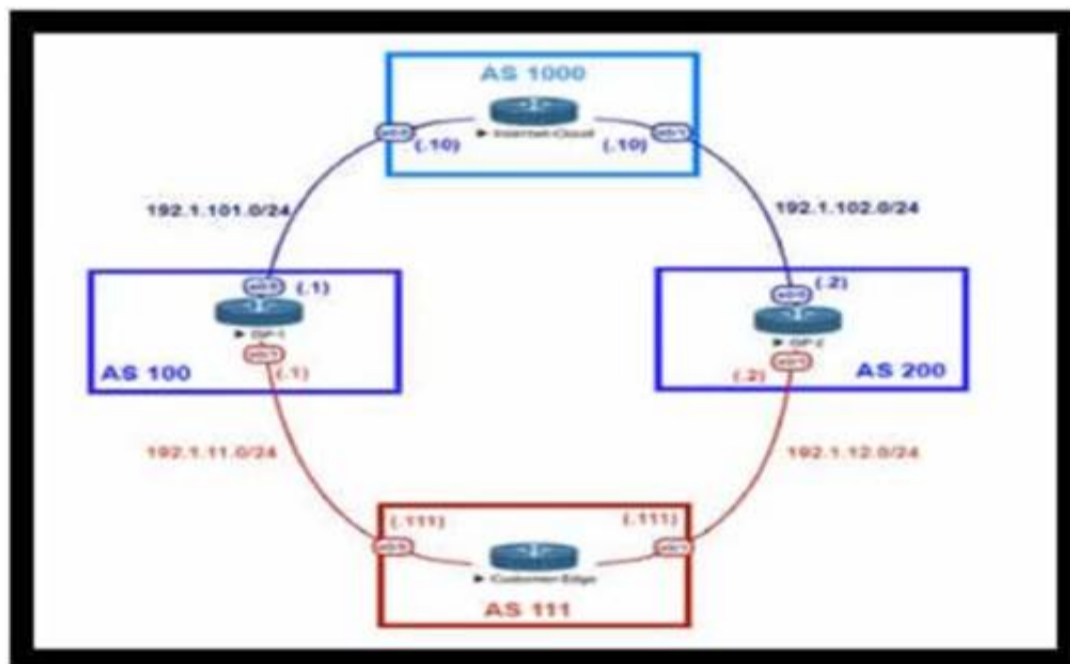F. routing protocol authentication

Answer: BEF

NEW QUESTION 3
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 4
Refer to the exhibit.

An engineer is designing the traffic flow for AS 111. Traffic from AS 111 should be preferred via AS 100 for all external routes. A method must be used that only affects AS 111. Which BGP attributes are best suited to control outbound traffic?

A. community
B. MED
C. local preference
D. As path

Answer: C

NEW QUESTION 5
Which SDN architecture component is used by the application layer to communicate with the control plane layer to provide instructions about the resources required by applications?

A. southbound APIs
B. northbound APIs
C. orchestration layer
D. SDN controller

Answer: B

NEW QUESTION 6
Company XYZ wants to improve the security design of their network to include protection from reconnaissance and DoS attacks on their sub interfaces destined toward next hop routers. Which technology can be used to prevent these types of attacks?

A. MPP
B. CPPr
C. CoPP
D. DPP

Answer: B

Explanation:
https://learningnetwork.cisco.com/s/question/0D53i00000KsuyvCAB/copp-vs-cppr

NEW QUESTION 7
Which two pain points are the most common for container technology adoption? (Choose two)

A. Performance
B. Security
C. Cost
D. Container deployment
E. Skilled staff
F. Compliance

Answer: DE

NEW QUESTION 8
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 9
Company XYZ is in the process of identifying which transport mechanism(s) to use as their WAN technology. Their main two requirements are.
• a technology that could offer DPI, SLA, secure tunnels, privacy, QoS, scalability, reliability, and ease of management
• a technology that is cost-effective
Which WAN technology(ies) should be included in the design of company XYZ?

A. Software-defined WAN should be the preferred choice because it complements both technologies, covers all the required features, and it is the most cost-effective solution.
B. Internet should be the preferred option because it is cost effective and supports BFD, IP SL
C. and IPsec for secure transport over the public Internet.
D. Both technologies should be use
E. Each should be used to back up the other one; where the primary links are MPLS, the internet should be used as a backup link with IPsec (and vice versa).
F. MPLS meets all these requirements and it is more reliable than using the Interne
G. It is widely used with defined best practices and an industry standard.

Answer: A

NEW QUESTION 10
Company XYZ connects its sites over a private WAN. Their overlay network is running a DMVPN setup where the headquarters site is the hub. The company is planning on implementing multicast routing on the network. What should be used in the multicast routing design?

A. PIM dense mode with RP located at the hub
B. PIM sparse mode with RP located at each remote site
C. PIM sparse mode with RP located at the hub
D. PIM dense mode with RP located at each remote site

Answer: C

Explanation:
https://www.ccexpert.us/routing-switching-2/dynamic-multipoint-vpn.html

NEW QUESTION 10
A financial company requires that a custom TCP-based stock-trading application be prioritized over all other traffic for the business due to the associated revenue. The company also requires that VoIP be prioritized for manual trades. Which directive should be followed when a QoS strategy is developed for the business?

A. Allow VoIP and the custom application to share the same priority queue,

B. The custom application and VoIP must be assigned their own separate priority queue.
C. Interleave the custom application with other TCP applications in the same CBWR
D. Avoid placing the custom application in a CBWFQ queue that contains other

Answer: C

NEW QUESTION 12
How can EIGRP topologies be designed to converge as fast as possible in the event of a point-to-point link failure?

A. Limit the query domain by use of distribute lists.
B. Build neighbor adjacencies in a triangulated fashion.
C. Build neighbor adjacencies in squared fashion.
D. Limit the query domain by use of summarization.
E. Limit the query domain by use of default routes.

Answer: D

NEW QUESTION 16
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?

A. low bandwidth
B. securityC scalability
C. high latency

Answer: A

NEW QUESTION 20
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 24
You are designing a network for a branch office. In order to improve convergence time, you are required to use the BFD feature Which four routing protocols can you use to facilitate this? (Choose four.)

A. IS-IS
B. static
C. RIP
D. EIGRP
E. BGP

Answer: ABDE

NEW QUESTION 28
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.
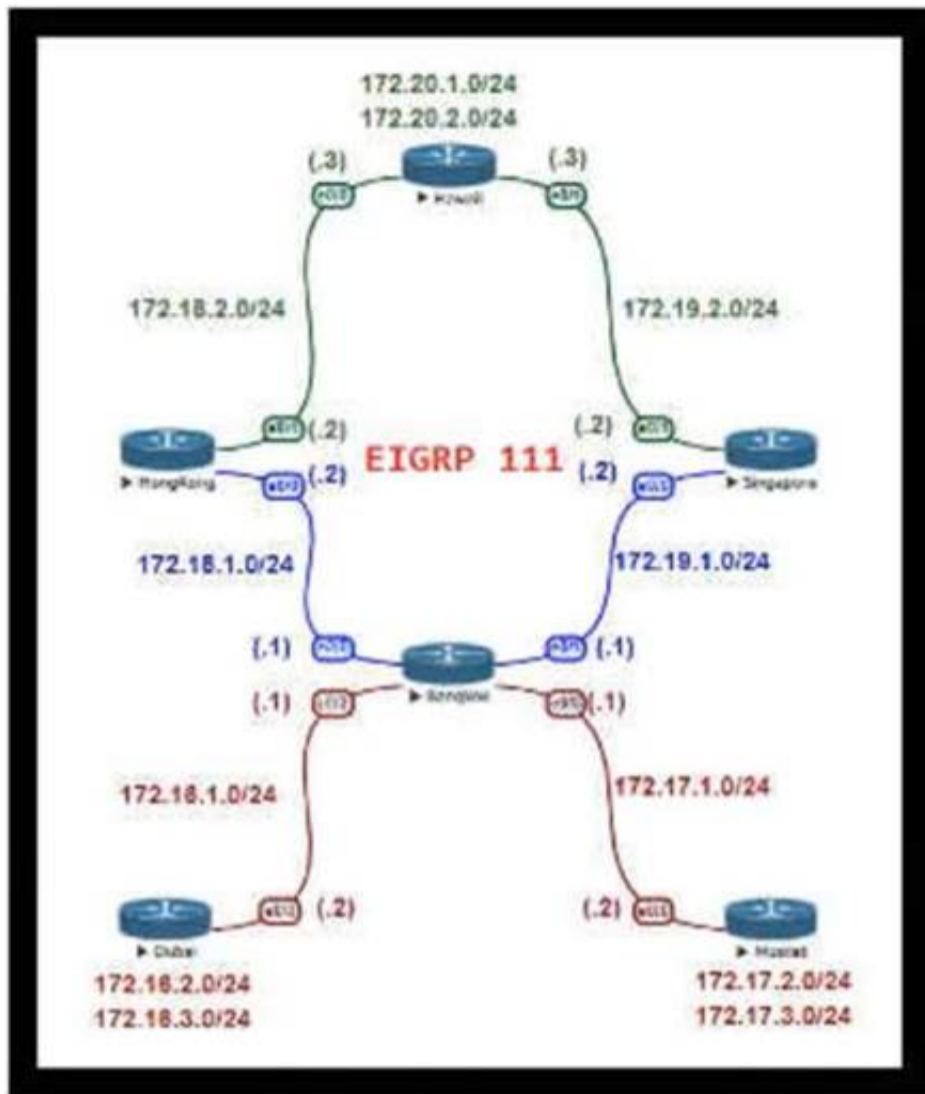
Answer: D

NEW QUESTION 33
Company XYZ asks for design recommendations for Layer 2 redundancy. The company wants to prioritize fast convergence and resiliency elements. In the design. Which two technologies are recommended? (Choose two.)

A. Design MLAG/MC-LAG into the network wherever possible.
B. Configure DHCP snooping on the switches.
C. Use root guard.
D. Use BPDU guard.
E. Use UniDirectional Link Detection.

Answer: AE

NEW QUESTION 38
Refer to the exhibit.

For Company XYZ Bangkok is using ECMP to reach the 172 20 2 0/24 network The company wants a design that would allow them to forward traffic from 172 16 2 0/24 toward 172 20 2 0/24 via the Singapore router as the preferred route The rest of the traffic should continue to use ECMP Which technology fulfills this design requirement?

A. policy-based routing
B. route summarization
C. unequal-cost load balancing using variance
D. LFA

Answer: A

NEW QUESTION 40
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 43
Identity and access management between multiple users and multiple applications has become a mandatory requirement for Company XYZ to fight against ever increasing cybersecurity threats. To achieve this, federated identity services have been deployed in the Company XYZ network to provide single sign-on and Multi-Factor Authentication for the applications and services. Which protocol can be used by Company XYZ to provide authentication and authorization services?

A. OAuth2
B. OpenID Connect
C. OpenID
D. SAML2.0

Answer: D

NEW QUESTION 45
Drag and drop the design characteristics from the left onto the correct network filter techniques on the right. Not all options are used.

It is used to prevent spoofing attacks when there are alternate routes to a given IP address	**Ingress Access Lists** target 1
It is used to check the existence of a route without regard to the incoming interface	**Strict Reverse Path Forwarding** target 2
It is a dynamic filter	**Feasible Path Reverse Path Forwarding** target 3
It requires manual configuration	
It is used as a filtering technique for Martian IP addresses	**Loose Reverse Path Forwarding** target 4

A. Mastered
B. Not Mastered

Answer: A

Explanation:

It is used to prevent spoofing attacks when there are alternate routes to a given IP address	**Ingress Access Lists** It requires manual configuration
It is used to check the existence of a route without regard to the incoming interface	**Strict Reverse Path Forwarding** It is a dynamic filter
It is a dynamic filter	**Feasible Path Reverse Path Forwarding** It is used to prevent spoofing attacks when there are alternate routes to a given IP address
It requires manual configuration	
It is used as a filtering technique for Martian IP addresses	**Loose Reverse Path Forwarding** It is used as a filtering technique for Martian IP addresses

NEW QUESTION 49
Company XYZ wants to redesign the Layer 2 part of their network and wants to use all available uplinks for increased performance. They also want to have end host reachability supporting conversational learning. However, due to design constraints, they cannot implement port-channel on the uplinks. Which other technique can be used to make sure the uplinks are in active/active state?

A. TRILL
B. LISP
C. MSTP
D. switch stack

Answer: B

NEW QUESTION 53
Company XYZ has 30 sites using MPLS L3 VPN and the company is now concerned about data integrity. The company wants to redesign the security aspect of their network based on these requirements:
• Securely transfer the corporate data over the private WAN
• Use a centralized configuration model.
• Minimize overhead on the tunneled traffic.
Which technology can be used in the new design to meet the company's requirements?

A. S-VTI
B. DMVPN
C. MGRE
D. GET VPN

Answer: D

NEW QUESTION 55
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 56
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. Scaling of the centralized controller cluster is challenging for services like DHCP and load-balancing.
B. It is highly-available by design with no single-point-of-failure risks present.
C. Integrating smart NIC capabilities on the local host level is made easier through rest APIs.
D. It significantly improves the latency when performing reactive handling of PACKET_IN events.
E. It centralized controller can support all southbound APIs, which allows for easy integration with legacy equipment.

Answer: AE

NEW QUESTION 59
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 60
Company ABC uses IPv4-only. Recently they started deploying new endpoint devices. For operational reasons, IPv6 cannot be disabled on these new endpoint devices. Which security measure prevents the new endpoint from learning an IPv6 prefix from an attacker?

A. Source Guard and Prefix Guard
B. Router Advertisement Guard
C. Prefix Guard
D. Secure Neighbor Discovery

Answer: B

NEW QUESTION 64
Which two data plane hardening techniques are true? (Choose two)

A. warning banners
B. redundant AAA servers
C. Control Plane Policing
D. SNMPv3
E. infrastructure ACLs
F. disable unused services
G. routing protocol authentication

Answer: EF

NEW QUESTION 66
A network security team uses a purpose-built tool to actively monitor the campus network, applications, and user activity. The team also analyzes enterprise telemetry data from IPFIX data records that are received from devices in the campus network. Which action can be taken based on the augmented data?

A. reduction in time to detect and respond to threats
B. integration with an incident response plan
C. adoption and improvement of threat-detection response
D. asset identification and grouping decisions

Answer: A

NEW QUESTION 69
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 70
While reviewing an existing network design, you are discussing the characteristics of different STP versions. Which protocol minimizes unicast flooding during a Topology Change Notification in a Layer 2 switched network with many VLANs?

A. PVRSTP
B. MST
C. STP
D. PVSTP+

Answer: A

NEW QUESTION 74
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 78
Which two technologies enable multilayer segmentation? (Choose two.)

A. policy-based routing
B. segment routing
C. data plane markings
D. firewalls
E. filter lists

Answer: AD

NEW QUESTION 81
Company XYZ wants to use the FCAPS ISO standard for network management design. The focus of the
design should be to monitor and keep track of any performance issues by continuously collecting and analyzing statistical information to monitor, correct, and optimize any reduced responsiveness across the network. Which layer accomplishes this design requirement?

A. fault management
B. accounting management
C. performance management
D. security management

Answer: C

NEW QUESTION 86
A healthcare provider discovers that protected health information of patients was altered without patient consent. The healthcare provider is subject to HIPAA compliance and is required to protect PHI data. Which type of security safeguard should be implemented to resolve this issue?

A. technical and physical access control
B. administrative security management processes
C. physical device and media control
D. technical integrity and transmission security

Answer: D

Explanation:
https://www.cisco.com/en/US/docs/solutions/Enterprise/Compliance/HIPAA/HIP_AppC.html#wp1085353

NEW QUESTION 90
What are two advantages of controller-based networks versus traditional networks? (Choose two.)

A. the ability to have forwarding tables at each device
B. more flexible configuration per device
C. more consistent device configuration
D. programmatic APIs that are available per device
E. the ability to configure the features for the network rather than per device

Answer: CE

NEW QUESTION 95
An external edge router provides connectivity from a service provider to an enterprise Which two Internet edge best practices meet compliance regulations'? (Choose two)

A. Implement filtenng to control traffic that is sourced from the infrastructure IP space.
B. Enable and use only secure protocols.
C. Send logs to a centralized logging collection server.
D. Implement EBGP to advertise all owned IP blocks.
E. Use login banners and interface access lists to restrict administrative access to the system

Answer: BE

NEW QUESTION 98
An engineer is designing a DMVPN network where OSPF has been chosen as the routing protocol A
spoke-to-spoke 'J<ita propagation model must be set up Which two design considerations must be taken into account? (Choose two)

A. Configure all the sites as network type broadcast
B. The network type on all sites should be point-to-multipoint
C. The network type should be point-to-multipoint for the hub and point-to-point for the spokes.
D. The hub should be set as the DR by specifying the priority to 255.
E. The hub should be the DR by changing the priority of the spokes to 0.

Answer: AE

NEW QUESTION 99
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 104
Company XYZ uses an office model where the employees can use any open desk and plug their laptops in. They want to authenticate the end users using their domain username and password before allowing them access to the network. The design must also accommodate the ability of controlling traffic within the same group or subnet if a macro (or micro) segmentation-based model is adopted in the future. Which protocol can be recommended for this design to authenticate end users?

A. LDAP
B. EAP
C. TACACS+
D. RADIUS

Answer: D

Explanation:
https://www.networkstraining.com/what-is-cisco-ise/

NEW QUESTION 105
Company XYZ is migrating their existing network to IPv6 and they must plan for Layer 2 and Layer 3 devices Some of the access layer switches do not support IPv6, however, core and distribution switches fully support unicast and multicast routing. The company wants to minimize cost of the migration. Which migration strategy should be used in the design?

A. The access layer switches must support IGMP snooping at a minimu
B. Any switches that do not support IGM snooping must be replaced.
C. Upgrade the nonsupporting switches Otherwise, it will cause an issue with the migration.
D. Layer 2 switches will not affect the implementation of IPv6. They can be included in the design in their current state.
E. The access layer switches must support DHCPv6. Any switches that do not support DHCPv6 must be replaced.

Answer: C

NEW QUESTION 107
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 112
Which two benefits can software defined networks provide to businesses? (Choose two.)

A. provides additional redundancy
B. decentralized management

C. reduced latency
D. enables innovation
E. reduction of OpEx/CapEx
F. meets high traffic demands

Answer: DE

NEW QUESTION 115
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 120
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 Which activity should be completed each time a legacy network is migrated?

A. The migrated VLAN should be pruned from the Layer 2 interconnects.
B. The migrated network should have a VXLAN VNID configured within the new network.
C. The migrated network should be advertised to the EVPN network as a Type 2 network.
D. The migrated network should be added to the EVPN BGP routing.

Answer: C

NEW QUESTION 123
Which function is performed at the access layer of the three-layer hierarchical network design model?

A. fault isolation
B. QoS classification and marking boundary
C. reliability
D. fast transport
E. redundancy and load balancing

Answer: B

NEW QUESTION 127
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 130
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 135
Which two control plane policer designs must be considered to achieve high availability? (Choose two.)

A. Control plane policers are enforced in hardware to protect the software path, but they are hardware platform dependent in terms of classification ability.
B. Control plane policers are really needed only on externally facing devices.
C. Control plane policers can cause the network management systems to create false alarms.
D. Control plane policers must be processed before a forwarding decision is made.
E. Control plane policers require that adequate protocols overhead are factored in to allow protocol convergence.

Answer: AD

NEW QUESTION 136
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 140
An existing wireless network was designed to support data traffic only. You must now install context Aware services for location tracking changes must be applied to the existing wireless network to increase the location accuracy? (Chose two)

A. Add access points along the perimeter of the coverage area.
B. Increase the access point density to create an average inter-access point distance of less than 40 feet or 12.2 meters
C. Use directional antennas to provide more cell overlapping
D. Install additional access points in monitor mode where the co-channel interference would otherwise be affected
E. Fine tune the radio configuration of the access point to have a higher average transmission power to achieve better coverage

Answer: BE

NEW QUESTION 141
A network architect in an enterprise is designing a network policy for certain database applications. The goal of the policy is to allow these applications to access the internet directly, whereas other user and network applications that communicate with systems or users outside their own network must be routed through the data center. The focus is on achieving higher availability and a better user experience for the database applications, but switching between different network paths based on performance characteristics must be supported.
Which solution meets these requirements?

A. MPLS L3VPN with QoS
B. Cloud onRamp for IaaS
C. Cloud onRamp for SaaS
D. MPLS direct connect

Answer: C

Explanation:
https://www.cisco.com/c/en/us/solutions/collateral/enterprise-networks/sd-wan/nb-06-cloud-onramp-saas-faq-ct

NEW QUESTION 145
Two routers R1 and R2 are directly connected through an Ethernet link. Both routers are running OSPF over the Ethernet link and OSPF has been registered with BFD. R1 has been set up to transmit BFD at a 50 ms interval, but R2 can receive only at a 100 ms rate due to platform limitations. What does this mean?

A. After the initial timer exchang
B. R2 sets its transmission rate to the R1 Desired Min TX interval
C. After the initial timer exchang
D. R1 sets its transmission rate to the R2 Required Min RX interval
E. Timers renegotiate indefinitely, so the timer exchange phase never converges
F. R2 sets the P-bit on all BFD control packets until R2 sends a packet with the F-bit set

Answer: B

NEW QUESTION 150
Company XYZ wants to secure the data plane of their network. Which two technologies can be included in the security design? (Choose two)

A. DAI
B. IP Source Guard
C. BEEP
D. CPPr
E. MPP

Answer: AB

NEW QUESTION 154
Company XYZ must design a strategy to protect their routers from DoS attacks, such as traffic destined to the router's own route processor, using separate control plane categories. Which two capabilities can be used to achieve this requirement? (Choose two.)

A. Control Plane Protection using queue thresholding on the transit subinterface
B. Control Plane Protection using port filtering on the transit subinterface
C. Control Plane Protection using port filtering on the main interface
D. Control Plane Protection using queue thresholding on the host subinterface
E. Control Plane Protection using port filtering on the host subinterface

Answer: DE

NEW QUESTION 158
Which technology is an open-source infrastructure automation tool that automates repetitive tasks for users who work in networks such as cloud provisioning and intraservice orchestration?

A. Ansible

B. Contrail
C. Java
D. Jinja2

Answer: A

NEW QUESTION 160
Company ABC wants to minimize the risk of users plugging unauthorized switches and hubs into the network Which two features can be used on the LAN access ports to support this design requirement? (Choose two.)

A. Loop Guard
B. PortFast
C. DTF
D. Root Guard
E. BPDU Guard

Answer: BE

NEW QUESTION 165
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: C

NEW QUESTION 168
An enterprise network has two core routers that connect to 200 distribution routers and uses full-mesh IBGP peering between these routers as its routing method. The distribution routers are experiencing high CPU utilization due to the BGP process. Which design solution is the most cost effective?

A. Implement route reflectors on the two core routers
B. Increase the memory on the core routers
C. Implement e BGP between the core and distribution routers
D. Increase the memory on the distribution routers
E. Increase bandwidth between the core routers

Answer: A

NEW QUESTION 173
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 174
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 175
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 177
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 179
Company XYZ wants to use the FCAPS ISO standard for network management design. The focus of the design should be to minimize network outages by employing a set of procedures and activities to detect and isolate network issues and the appropriate corrective actions to overcome current issues and prevent them from occurring again. Which layer accomplishes this design requirement?

A. fault management
B. performance management
C. security management
D. accounting management

Answer: A

NEW QUESTION 184
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 188
Which two features control multicast traffic in a VLAN environment? (Choose two)

A. IGMP snooping
B. MLD snooping
C. RGMP
D. PIM snooping
E. pruning

Answer: AB

NEW QUESTION 192
Drag and drop the characteristics from the left onto the corresponding network management options on the right.

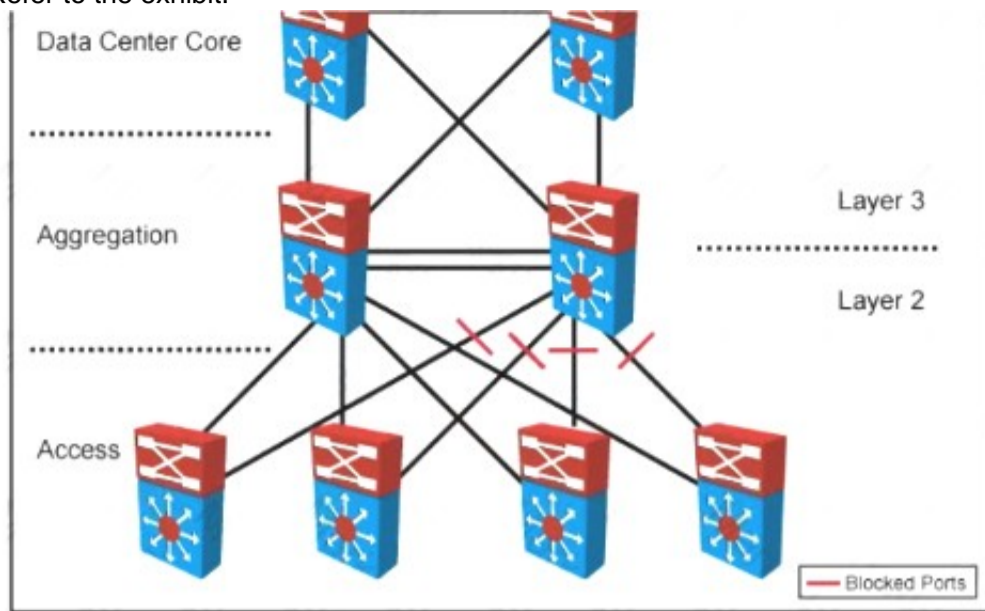| Characteristics	Options
protocol based on HTTP for configuring data defined in YANG and supports operations such as GET, PUT, POST, PATCH, and DELETE	NETCONF
provides mechanisms to install, manipulate, and delete the configuration of network devices; uses XML for data encoding and the operation is realized as RPC	RESTCONF
application program interface that uses HTTP requests to GET, PUT, POST, and DELETE data	ANSIBLE
open-source software provisioning, configuration management, and application-deployment tool	YANG
data modeling language used to model configuration data, state data, remote procedure calls, and notifications for network management protocols	REST API

A. Mastered
B. Not Mastered

Answer: A

Explanation:
Text Description automatically generated

NEW QUESTION 197
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 199
A business customer deploys workloads in the public cloud. Now the customer network faces governance issues with the flow of IT traffic and must ensure the security of data and intellectual property. Which action helps to identify the issue for further resolution?

A. Set up a secure tunnel from customer routers to ensure that traffic is protected as it travels to the cloud service providers.
B. Send IPFIX telemetry data from customer routers to a centralized collector to identify traffic to cloud service providers
C. Build a zone-based firewall policy on Internet edge firewalls that collects statistics on traffic sent to cloud service providers
D. Apply workload policies that dictate the security requirements to the workloads that are placed in the cloud.

Answer: B

NEW QUESTION 203
Which two mechanisms avoid suboptimal routing in a network with dynamic mutual redistribution between multiple OSPFv2 and EIGRP boundaries? (Choose two.)

A. AD manipulation
B. matching OSPF external routes
C. route tagging
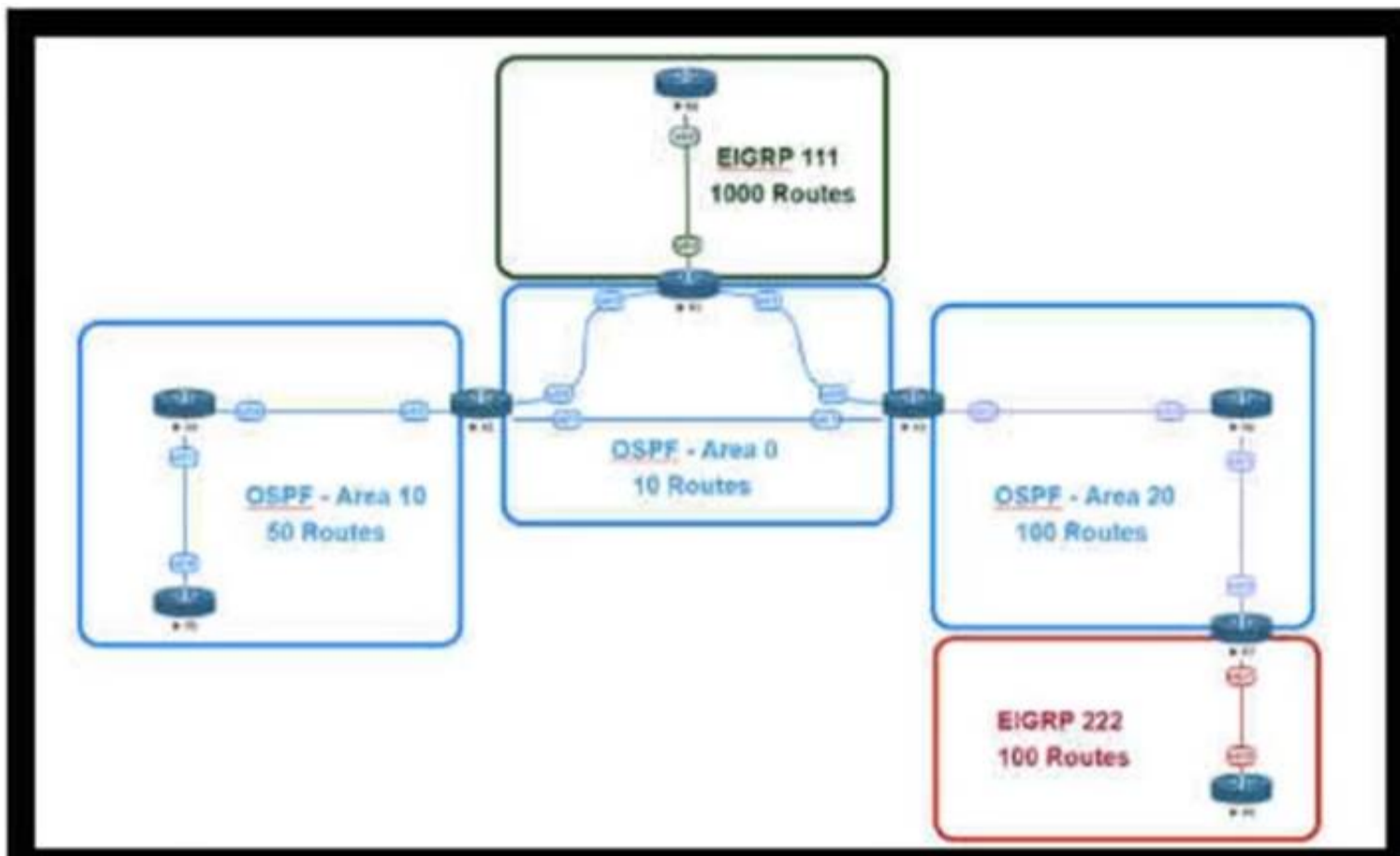D. route tagging
E. route filtering
F. matching EIGRP process ID

Answer: DE

Explanation:
https://www.cisco.com/c/en/us/support/docs/ip/enhanced-interior-gateway-routing-protocol-eigrp/8606-redist.ht

NEW QUESTION 206
Retef 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 207
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
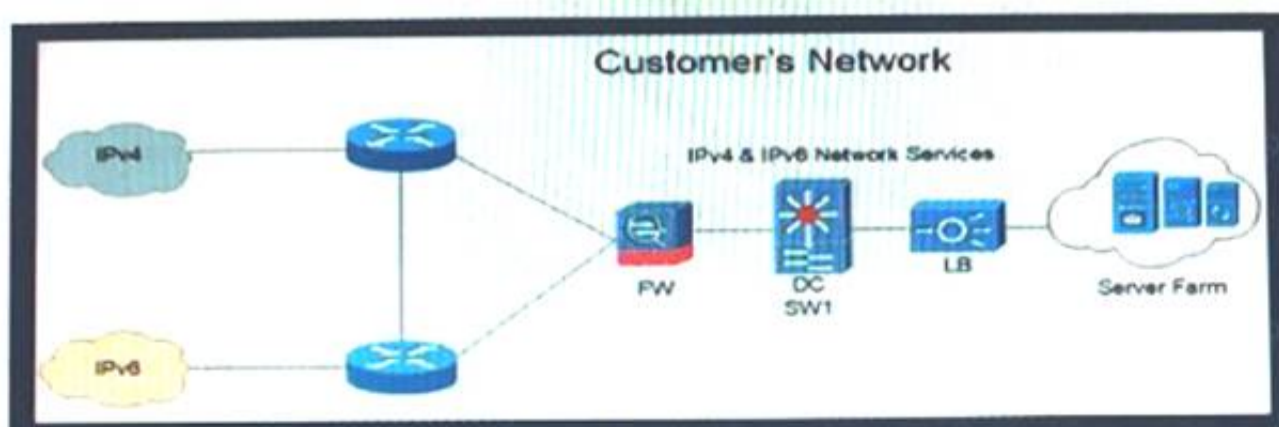E. reduce complexity

Answer: BE

NEW QUESTION 208
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 209
Refer to the exhibit.

Company XYZ is currently running IPv4 but has decided to start the transition into IPv6. The initial objective is to allow communication based on IPv6 wherever possible, and there should still be support in place for devices that only support IPv4. These devices must be able to communicate to IPv6 devices as well. Which solution must be part of the design?

A. address family translation

B. dual stack
C. host-to-host tunneling
D. 6rd tunneling
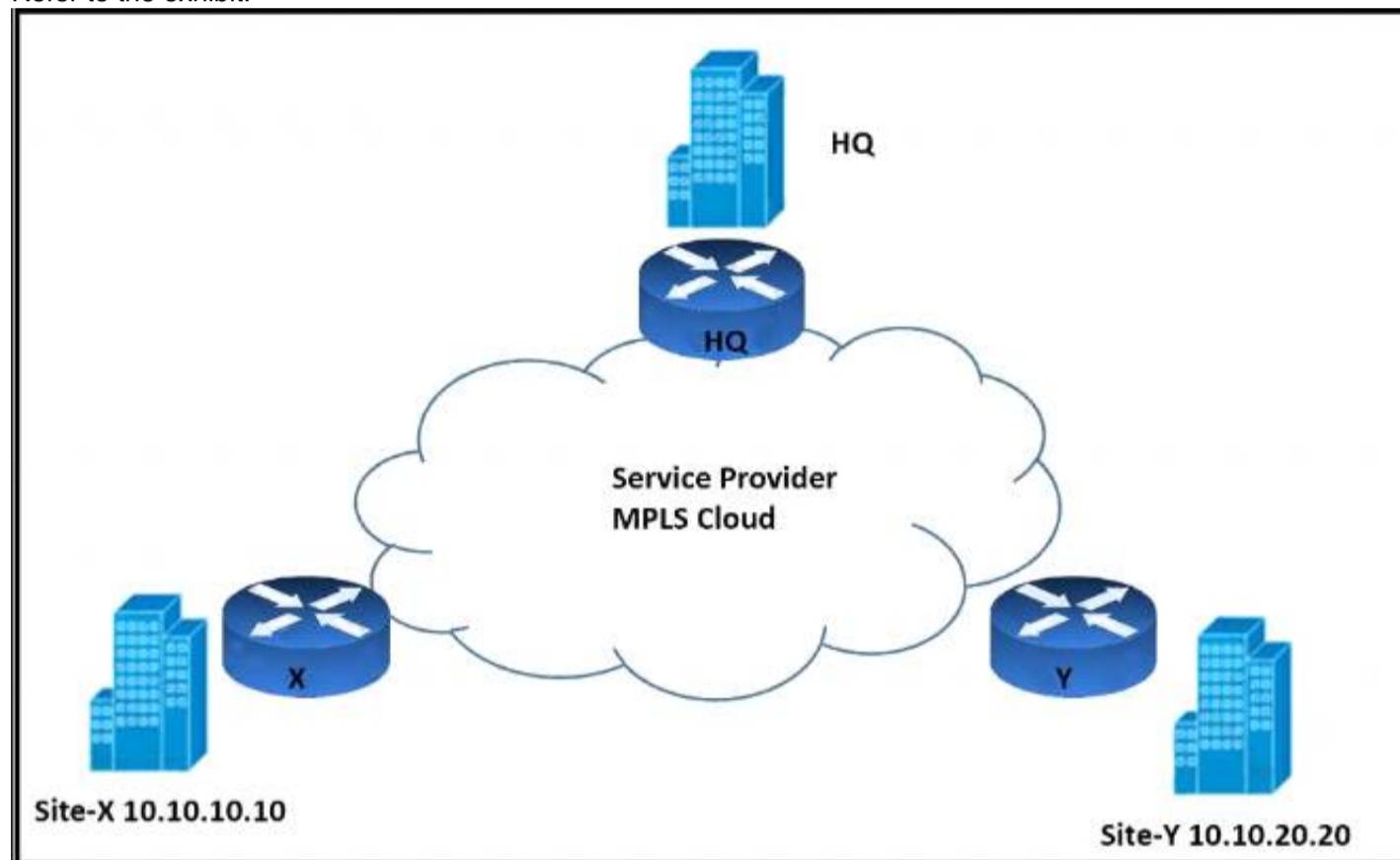
Answer: B

NEW QUESTION 213
Which architecture does not require an explicit multicast signaling protocol, such as PIM or P2MP, to signal the multicast state hop-by-hop, but instead uses a link state protocol to advertise the multicast forwarding state?

A. Binary indexed explicit routing
B. Binary intermediate enhanced routing
C. Bit indexed explicit replication
D. Bi-directional implicit replication

Answer: C

NEW QUESTION 218
Refer to the exhibit.

Site-X 10.10.10.10

Site-Y 10.10.20.20

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 220
Drag and drop the design use cases from the left onto the correct uRPF techniques used to prevent spoofing attacks Not all options are used.
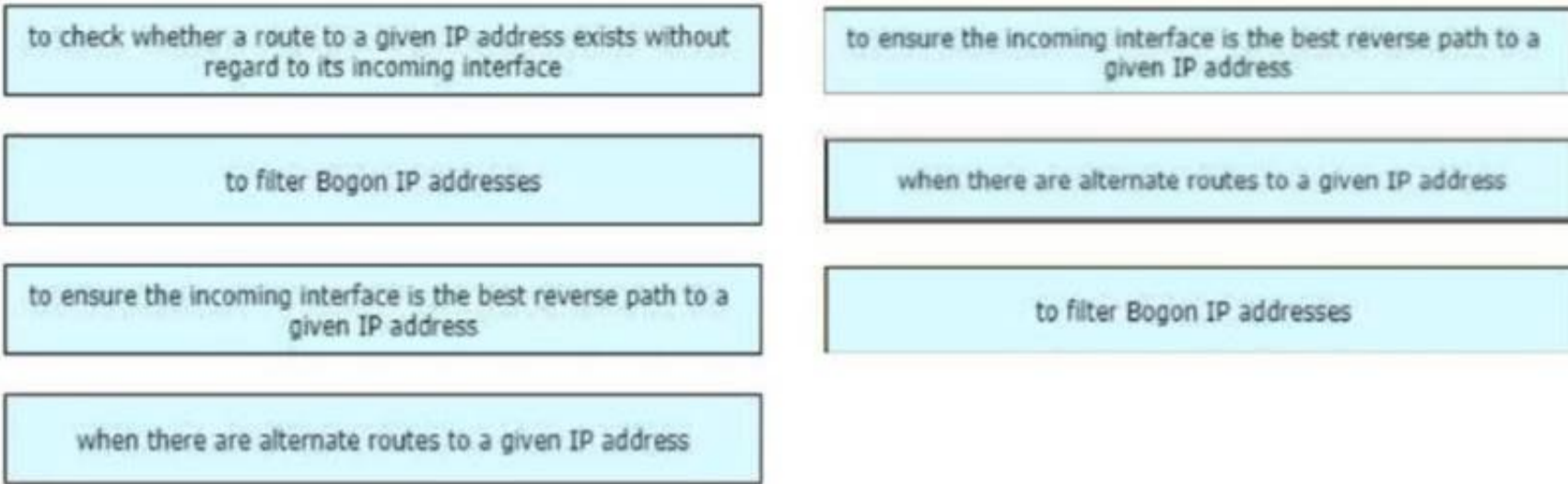
to check whether a route to a given IP address exists without regard to its incoming interface	strict mode
to filter Bogon IP addresses	feasible mode
to ensure the incoming interface is the best reverse path to a given IP address	loose mode
when there are alternate routes to a given IP address	

A. Mastered

B. Not Mastered

Answer: A

Explanation:

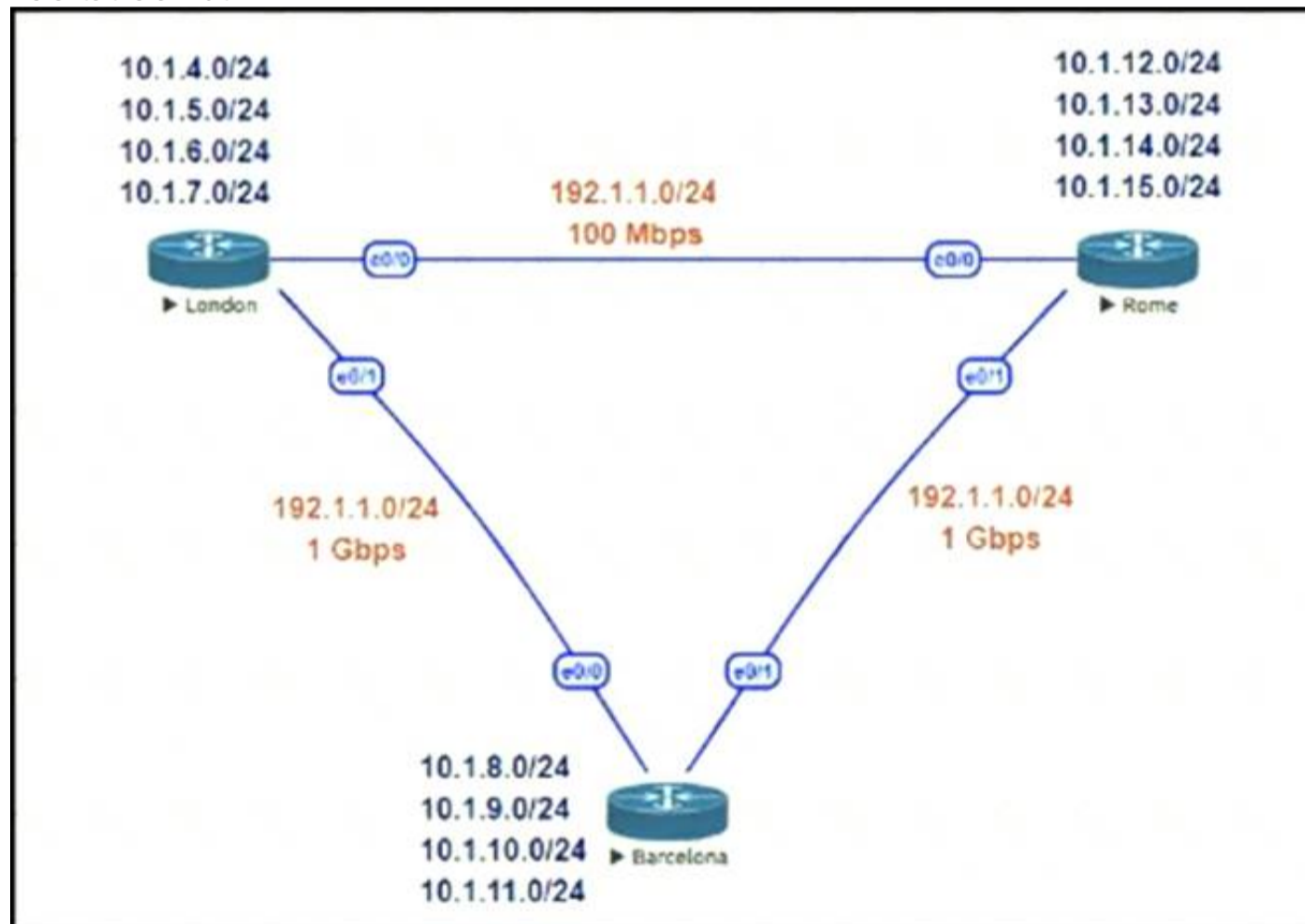| to check whether a route to a given IP address exists without regard to its incoming interface	to ensure the incoming interface is the best reverse path to a given IP address
to filter Bogon IP addresses	when there are alternate routes to a given IP address
to ensure the incoming interface is the best reverse path to a given IP address	to filter Bogon IP addresses
when there are alternate routes to a given IP address	

NEW QUESTION 221
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 222
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

Answer: AD

NEW QUESTION 223
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

Answer: D

Explanation:
https://www.cisco.com/c/en/us/td/docs/routers/sdwan/configuration/cloudonramp/vedge-20-x/cloud-onramp-boo

NEW QUESTION 225
A BGP route reflector in the network is taking longer than expected to coverage during large network changes. Troubleshooting shows that the router cannot handle all the TCP acknowledgements during route updates. Which action can be performed to tune the device performance?

A. Increase the size of the hold queue.
B. Increase the size of the large buffers.
C. Decrease the size of the small buffers.
D. Increase the keepalive timers for each BGP neighbor.

Answer: A

NEW QUESTION 230
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