Cisco

Exam Questions 400-007

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

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NEW QUESTION 1
You want to mitigate failures that are caused by STP loops that occur before UDLD detects the failure
or that are caused by a device that is no longer sending BPDUs. Which mechanism do you use along
with UDLD?

A. Root guard
B. BPDU guard
C. Loop guard
D. BPDU filtering

Answer: C

NEW QUESTION 2
Refer to the table.

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 3
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 4
Which two data plane hardening techniques are true? (Choose two)

A. warning banners
B. redundant AAA servers
C. Control Plane Policing
D. SNMPv3
E. routing protocol authentication

Answer: EF

NEW QUESTION 5
A small organization of 20 employees is looking to deliver a network design service for
modernizing customer networks to support advanced solutions:
- Project scope and weekly progress should be visualized by the management.
- Always consider feedback and make changes accordingly during the project.
- Should consider flexibility to change scope at the point of time.
Which project methodology meets the requirements and have the least impact on the outcome?

A. Scrum
B. LEAN
C. Kanban
D. Six-Sigma

Answer: C

NEW QUESTION 6
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 7

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 8

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 9

What is the most important operational driver in building a resilient and secure modular network design?

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

Answer: C

NEW QUESTION 10

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

NEW QUESTION 10

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. IaaS
D. hybrid cloud

Answer: C

NEW QUESTION 11

Refer to the exhibit. An engineer has been asked to redesign the traffic flow toward AS 111 coming from AS 500. Traffic destined to AS 111 network 91.7.0.0/16 should come in via AS 100. while traffic destined to all other networks in AS 111 should continue to use the existing path. Which BGP attributes are best suited to control this inbound traffic coming from BGP AS 500 Into the 91.7.0.0/16 network?

A. Prepend AS path for the 91.7.0.0/16 network and set it for neighbor in AS 200.
B. Use extended community for the 91.7.0.0/16 network, not advertising it to the bi-lateral peer.
C. Use local preference on R1 for the networks that AS 500 advertises to AS 111.
D. Set higher MED for neighbor in AS 100 to influence incoming traffic for the 91. 7.0.0/16 network.

Answer: A

NEW QUESTION 14
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: A

NEW QUESTION 17
According to the CIA triad principles for network security design, which principle should be priority for a Zero Trust network?

A. requirement for data-in-motion encryption and 2FA authentication
B. requirement for data-at-rest encryption foe user identification within the VPN terminationhardware
C. categorization of systems, data, and enterprise BYOD assets that are connected to networkzones based on individual privacy needs
D. ensuring that authorized users have high-availability system access from defined zones todefined systems or zones

Answer: A

NEW QUESTION 18
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 beredistributed 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 atR1 and R2.
D. R1, R2, R3 and R4 must be set up with a neighbor relationship with R5 only must not be a routereflector.

Answer: C

NEW QUESTION 23
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 25

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 27
A network design includes a long signaling delay in notifying the Layer 3 control plane that an interface has failed.
Which two of these actions would reduce that delay? (Choose two.)

A. Increase network stability.
B. Reduce the time for the network to reconverge.
C. Increase the notification of interface flaps.
D. Enable lower data link layer recovery systems to have an opportunity to restore the interface

Answer: BD

NEW QUESTION 32
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 36
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 41
A network architect must redesign a service provider edge, where multiservice and multitenant PEs are currently present.
Which design feature should be minimized in the new design to achieve reliability?

A. bridging
B. fate sharing
C. redundancy
D. unicast overlay routing

Answer: B

NEW QUESTION 45
A company plans to use BFD between its routers to detect a connectivity problem inside the switched network.
An IPS is transparently installed between the switches.
Which packets shold the IPS forward for BFD to work under all circumstances?

A. Fragmented packet with the do-not-fragment bit set
B. IP packets with broadcast IP source addresses
C. IP packets with the multicast IP source address
D. IP packet with the multicast IP destination address
E. IP packets with identical source and destination IP addresses
F. IP packets with the destination IP address 0.0.0.0.

Answer: E

NEW QUESTION 47
A Tier-3 Service Provider is evolving into a Tier-2 Service Provider due to the amount of Enterprise business it is receiving.
The network engineers are re-evaluating their IP/MPLS design considerations in order to support duplicate/overlapping IP addressing from their Enterprise customers within each Layer3 VPN.
Which concept would need to be reviewed to ensure stability in their network?

A. Assigning unique Route Distinguishers
B. Assigning unique Route Target ID'S
C. Assigning unique IP address space for the Enterprise NAT/Firewalls

D. Assigning unique VRF ID's to each L3VPN

Answer: A

NEW QUESTION 52
What best describes the difference between Automation and Orchestration?

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

Answer: A

NEW QUESTION 56
As part of a new network design documentation, you are required to explain the reason for choosing cisco FabricPath for Layer 2 loop avoidance.
Which two elements help Cisco FabricPath mitigate Layer 2 loops if they happen in the Layer 2 MP network? (Choose two)

A. MAC tunneling
B. IS-IS multipath
C. RPF check
D. TTL header

Answer: CD

NEW QUESTION 61
Which design benefit of PortF ast is true?

A. PortFast does not generate a spanning tree topology change hen a station on a port is connectedor disconnected
B. PortFast disables spanning tree on the port, which puts the port into the forwarding stateimmediately after it is connected
C. PortFast allows small, unmanaged switches to be plugged into ports of access switches withoutrisking switch loops
D. PortFast detects one-way communications on the physical port, which prevents switch loops
E. PortFast prevents switch loops that are caused by a unidirectional point to point link condition onRapid PVST+ and MST
F. PortFast prevents switched traffic from traversing suboptimal paths on the network

Answer: A

NEW QUESTION 64
You are a network designer and you must ensure that the network you design is secure.
How do you plan to prevent infected devices on your network from sourcing random DDoS attacks using forged source address?

A. ACL based forwarding
B. unicast RPF loose mode
C. unicast RPF strict mode
D. ACL filtering by destination

Answer: C

NEW QUESTION 69
Which two design solutions ensure sub 50 msec of the convergence time after a link failure in the network? (Choose two)

A. BFD
B. Ti-LFA
C. minimal BGP scan time
D. MPLS-FRR
E. IGP fast hello

Answer: BD

NEW QUESTION 71
You want to split an Ethernet domain in two.
Which parameter must be unique in this design to keep the two domains separated?

A. VTP domain
B. VTP password
C. STP type
D. VLAN ID

Answer: D

NEW QUESTION 72
VPLS is implemented in a Layer 2 network with 2000 VLANs.
What is the primary concern to ensure successful deployment of VPLS?

A. Flooding is necessary to propagate MAC address reachability information
B. PE scalability
C. The underlying transport mechanism
D. VLAN scalability

Answer: B

NEW QUESTION 76
Which statement about hot-potato routing architecture design is true?

A. Hot-potato routing is the preferred architecture when connecting to content providers
B. Hop-potato keeps traffic under the control of the network administrator for longer
C. OSPF uses hot-potato routing if all ASBRs use the same value for the external metric
D. Hot-potato routing is prone to misconfiguration as well as poor coordination between twonetworks

Answer: A

NEW QUESTION 78
Two enterprise networks must be connected together. Both networks are using the same private IP addresses.
The client requests from both sides should be translated using hide NAT (dynamic NAT) with the overload feature to save IF addresses from the NAT pools.
Which design addresses this requirement using only one Cisco I OS NAT router for both directions?

A. This is not possible, because two Cisco IOS NAT routers are required to do dynamic NAT, withoverload in both directions.
B. The ip nat inside and ip nat outside commands must be configured at the interfaces with theoverload option in both directions.
C. The overload feature is the default and does not have to be configured.
D. Two different NAT pools must be used for the ip nat inside source and the ip nat outside sourcecommands for the overload feature in both directions.
E. The Nat Virtual interface must be used to achieve this requirement.

Answer: D

NEW QUESTION 79
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 83
Which two application requirements are mandatory tor traffic to receive proper treatment when placed in the priority queue? (Choose two.)

A. small transactions (HTTP-like behavior)
B. WRED drop treatment
C. tolerance to packet loss
D. intolerance to jitter
E. TCP-based application

Answer: AD

NEW QUESTION 88
You are designing a new Ethernet-based metro-area network for an enterprise customer to connect 50 sites within the same city OSPF will be the routing protocol used. The customer is primarily concerned with IPv4 address conservation and convergence time.
Which two combined actions do you recommend? (Choose two)

A. Use a multipoint Metro-E service for router connections
B. Use a single address per router for all P2P links
C. Use P2P links between routers in a hub-and-spoke design
D. Configure address aggregation at each site router
E. Determine which OSPF routers will be DR/BDR

Answer: AC

NEW QUESTION 90
SDWAN networks capitalize the usage of broadband Internet links over traditional MPLS links to offer more cost benefits to enterprise customers. However, due to the insecure nature of the public Internet, it is mandatory to use encryption of traffic between any two SDWAN edge devices installed behind NAT gateways.
Which overlay method can provide optimal transport over unreliable underlay networks that are behind NAT gateways?

A. TLS
B. DTLS
C. IPsec
D. GRE

Answer: C

NEW QUESTION 91

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 thedistance 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 theprimary site.
E. VSANs must be extended from the primary to the secondary site to improve performance andavailability.

Answer: BD

NEW QUESTION 94

Which three tools are used for ongoing monitoring and maintenance of a voice and video environment? (Choose three.)

A. flow-based analysis to measure bandwidth mix of applications and their flows
B. call management analysis to identify network convergence-related failures
C. call management analysis to identify CAC failures and call quality issues
D. active monitoring via synthetic probes to measure loss, latency, and jitter
E. passive monitoring via synthetic probes to measure loss, latency, and jitter
F. flow-based analysis with PTP time-stamping to measure loss, latency, and jitter

Answer: ACD

NEW QUESTION 98

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. andIPsec 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 theprimary 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 widelyused with defined best practices and an industry standard.

Answer: A

NEW QUESTION 99

Which MPLS TE design consideration is true?

A. MPLS TE replaces LDP and the dependency of the IGP to identify the best path.
B. MPLS TE provides link and node protection
C. MPLS TE optimizes the routing of IP traffic, given the constraints imposed by backbone capacityand application requirements.
D. MPLS TE requires Layer 3 VPN full-mesh topology deployment

Answer: C

NEW QUESTION 101

Drag and Drop Question
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:

NEW QUESTION 102
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