

Reliable 300-420 Exam Pdf - 300-420 Interactive EBook



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Cisco 300-420 Exam Topics:

Section	Weight	Objectives
Network Services	20%	<ul style="list-style-type: none">-Select appropriate QoS strategies to meet customer requirements (DiffServ, IntServ)-Design end-to-end QoS policies<ul style="list-style-type: none">• Classification and marking• Shaping• Policing• Queuing-Design network management techniques<ul style="list-style-type: none">• In-band vs. out-of-band• Segmented management networks• Prioritizing network management traffic-Describe multicast routing concepts (source trees, shared trees, RPF, rendezvous points)-Design multicast services (SSM, PIM bidirectional, MSDP)

Advanced Addressing and Routing Solutions	25%	<ul style="list-style-type: none"> -Create structured addressing plans for IPv4 and IPv6 -Create stable, secure, and scalable routing designs for IS-IS -Create stable, secure, and scalable routing designs for EIGRP -Create stable, secure, and scalable routing designs for OSPF -Create stable, secure, and scalable routing designs for BGP <ul style="list-style-type: none"> • Address families • Basic route filtering • Attributes for path preference • Route reflectors • Load sharing <ul style="list-style-type: none"> -Determine IPv6 migration strategies • Overlay (tunneling) • Native (dual-stacking) • Boundaries (IPv4/IPv6 translations)
WAN for Enterprise Networks	20%	<ul style="list-style-type: none"> -Compare WAN connectivity options • Layer 2 VPN • MPLS Layer 3 VPN • Metro Ethernet • DWDM • 4G/5G • SD-WAN customer edge <ul style="list-style-type: none"> -Design site-to-site VPN • Dynamic Multipoint VPN (DMVPN) • Layer 2 VPN • MPLS Layer 3 VPN • IPsec • Generic Routing Encapsulation (GRE) • Group Encrypted Transport VPN (GET VPN) <ul style="list-style-type: none"> -Design high availability for enterprise WAN • Single-homed • Multihomed • Backup connectivity • Failover <ul style="list-style-type: none"> -Describe Cisco SD-WAN Architecture (orchestration plane, management plane, control plane, data plane, on-boarding and provisioning, security) -Describe Cisco SD-WAN design considerations (control plane design, overlay design, LAN design, high availability, redundancy, scalability, security design, QoS and multicast over SD-WAN fabric)
Automation	10%	<ul style="list-style-type: none"> - Choose the correct YANG data model set based on requirements -Differentiate between IETF, Openconfig, and Cisco native YANG models -Differentiate between NETCONF and RESTCONF -Describe the impact of model-driven telemetry on the network • Periodic publication • On-change publication <ul style="list-style-type: none"> -Compare dial-in and dial-out approaches to model-driven telemetry

Advanced Enterprise Campus Networks	25%	<ul style="list-style-type: none"> - Design campus networks for high availability <ul style="list-style-type: none"> • First Hop Redundancy Protocols • Platform abstraction techniques • Graceful restart • BFD -Design campus Layer 2 infrastructures <ul style="list-style-type: none"> • STP scalability • Fast convergence • Loop-free technologies • PoE and WoL -Design multicampus Layer 3 infrastructures <ul style="list-style-type: none"> • Convergence • Load sharing • Route summarization • Route filtering • VRFs • Optimal topologies • Redistribution -Describe SD-Access Architecture (underlay, overlay, control and data plane, automation, wireless, and security) -Describe SD-Access fabric design considerations for wired and wireless access (overlay, fabric design, control plan design, border design, segmentation, virtual networks, scalability, over the top and fabric for wireless, multicast)
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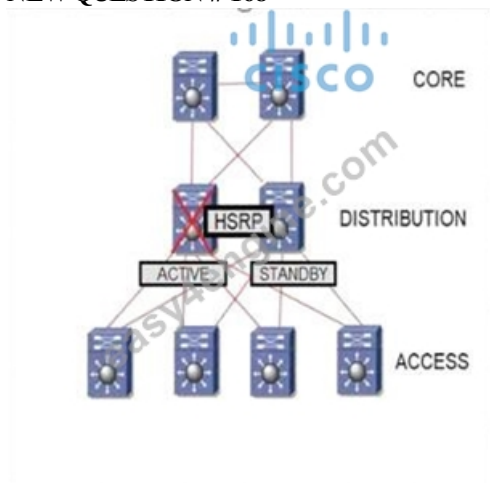
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Cisco Designing Cisco Enterprise Networks Sample Questions (Q168-Q173):

NEW QUESTION # 168



Refer to the exhibit. The distribution switches serve as the layer 3 boundary. HSRP preemption is enabled.

When the primary switch comes back after a failure, traffic is initially dropped. Which solution must be implemented to improve the design?

- A. Use the preempt delay feature on the primary HSRP device.
- B. Increase the hello timers on both HSRP devices
- C. Configure a higher mac-refresh interval on both HSRP devices
- D. Use the preempt delay feature on the backup HSRP device

Answer: A

NEW QUESTION # 169

An enterprise needs to enhance its WAN availability after a recent outage with its only MPLS provider. The proposed solution must have a quick deployment, be affordable, be reliable, and work as a backup for the enterprise's primary MPLS connection. Which solution meets these requirements?

- A. Deploy BFD echo mode and probe provider PE
- B. Deploy an additional WAN router and use a floating static route
- C. Contract another MPLS provider and deploy GET VPN.
- D. Contract an internet connection and deploy DMVPN.

Answer: D

NEW QUESTION # 170

Drag and Drop Question

Drag and drop the descriptions from the left onto the corresponding VPN types on the right.

Answer Area

The service provider participates in routing with the customer.

The customer controls the IP routing and policy governance.

Sites appear to each other to be directly connected at Layer 3.

Sites appear to be connected via the MPLS service provider network.

The customer initiates Layer 3 connectivity with the remote sites.

The customer establishes Layer 3 connectivity with the service provider edge device.

Layer 2 VPN

MPLS Layer 3 VPN

Answer:

Explanation:

Answer Area



Layer 2 VPN

The customer controls the IP routing and policy governance.

Sites appear to each other to be directly connected at Layer 3.

The customer initiates Layer 3 connectivity with the remote sites.

MPLS Layer 3 VPN

The service provider participates in routing with the customer.

Sites appear to be connected via the MPLS service provider network.

The customer establishes Layer 3 connectivity with the service provider edge device.

NEW QUESTION # 171

Refer to the exhibit. An architect must create a stable and scalable EIGRP solution for a customer. The design must:

- * conserve bandwidth, memory, and CPU processing
- * prevent suboptimal routing
- * avoid any unnecessary queries

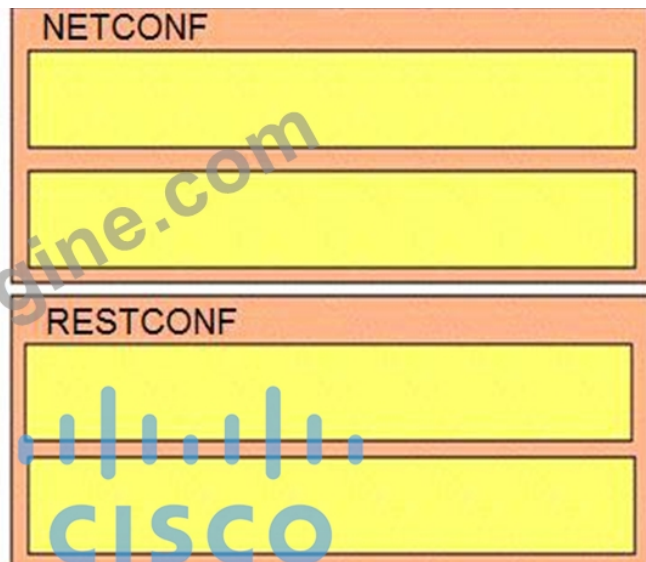
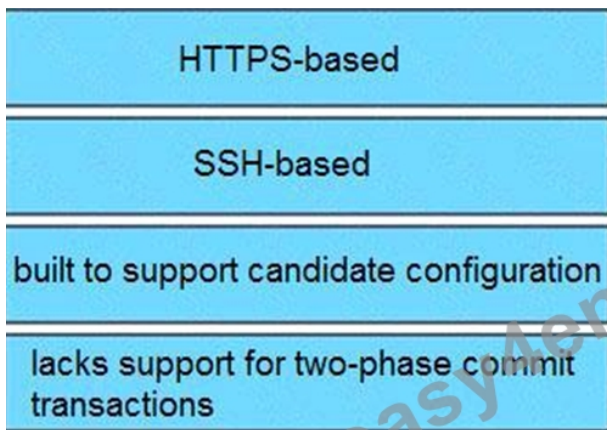
Which two solutions must the architect select? (Choose two.)

- A. Distribute lists
- **B. Stub routing**
- C. Route summarization
- D. Prefix lists

Answer: B

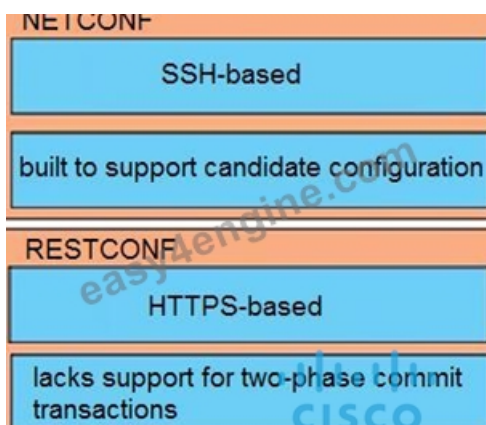
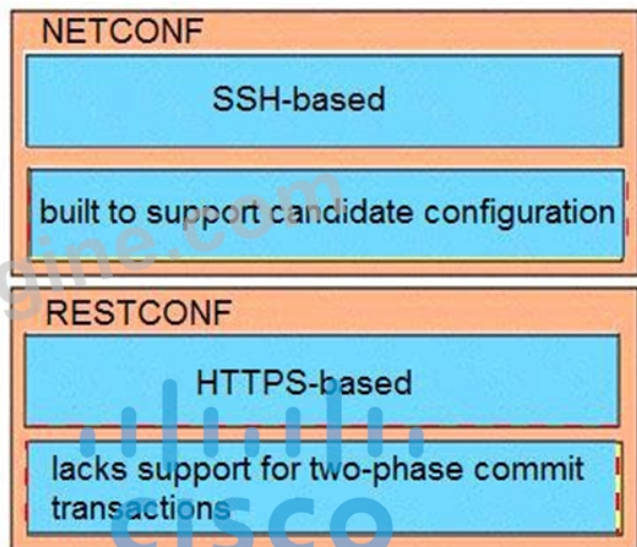
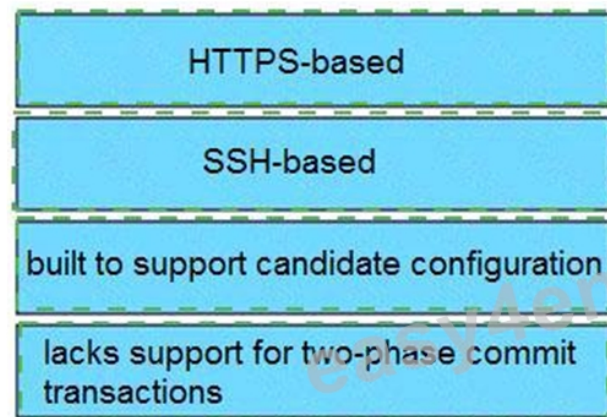
NEW QUESTION # 172

Drag and drop the properties from the left onto the protocols they describe on the right.



Answer:

Explanation:



NEW QUESTION # 173

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