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Cisco Certified Design Expert (CCDE v3.0) Written Exam Sample Questions (Q451-Q456):

NEW QUESTION # 451

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. Both technologies should be used. 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).

- C. MPLS meets all these requirements and it is more reliable than using the Internet. It is widely used with defined best practices and an industry standard.
- D. Internet should be the preferred option because it is cost-effective and supports BFD, IP SLA, and IPsec for secure transport over the public Internet.

Answer: A

Explanation:

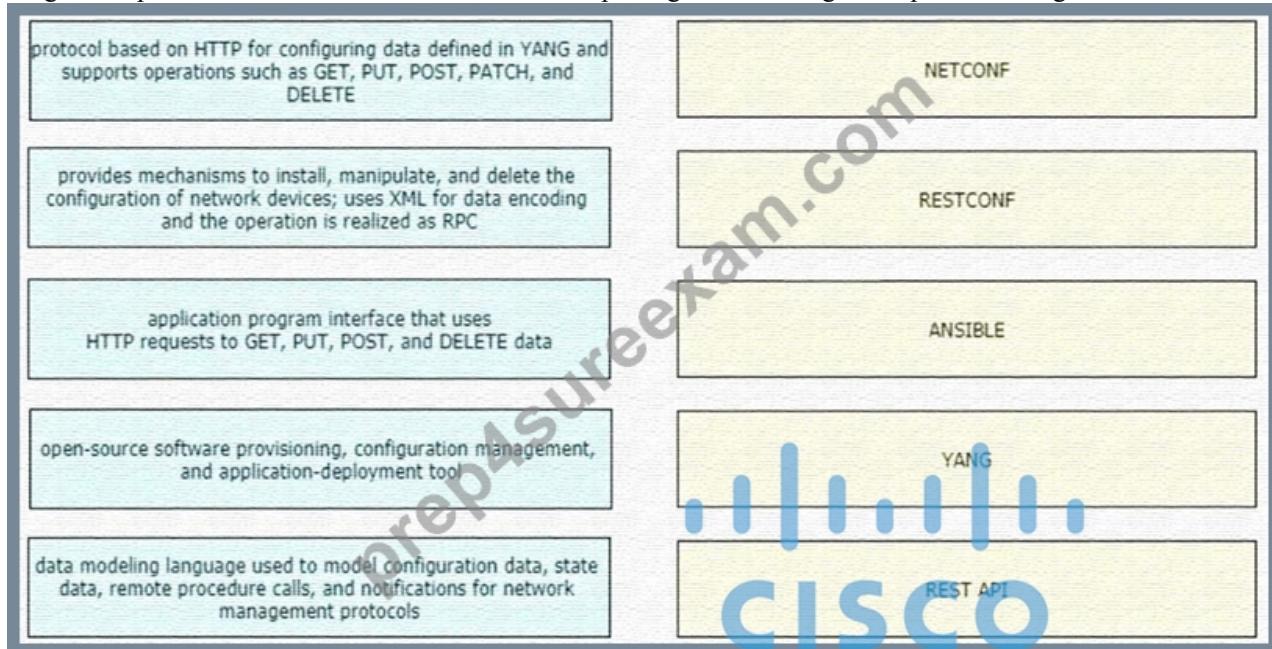
- * SD-WAN integrates multiple underlay transport options (Internet, MPLS, LTE) while delivering advanced features like DPI (Deep Packet Inspection), SLA monitoring, QoS, encryption, scalability, and centralized management.
- * It provides policy-based path selection, cost optimization, and rapid deployment.
- * SD-WAN is widely regarded as a modern WAN design solution fully aligned with CCDE v3.1 design principles for cost-effective and flexible WAN architectures.

Why other options are incorrect:

- * B: Internet alone cannot deliver consistent SLA or QoS guarantees.
- * C: Hybrid MPLS + Internet may work but is more complex and costly; SD-WAN natively supports such hybrid models.
- * D: MPLS offers SLAs but lacks flexibility, DPI, and cost-effectiveness compared to SD-WAN.

NEW QUESTION # 452

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



Answer:

Explanation:

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

Explanation:

Text Description automatically generated

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

NEW QUESTION # 453

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 filtering 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: B,E

Explanation:

* B (Use only secure protocols): Management and administrative access to Internet edge routers must use secure protocols (SSH, SNMPv3, HTTPS) to prevent interception or unauthorized access.

* E (Restrict administrative access): Limiting administrative access via interface ACLs and clear login banners ensures that only authorized personnel can access the system, satisfying compliance and security requirements.

Other options explained:

- * A: Filtering infrastructure IP space is good hygiene but not directly related to compliance.
- * C: Logging is valuable for operations and incident response but not a compliance control by itself.
- * D: EBGP advertisements relate to routing policy, not compliance regulation.

NEW QUESTION # 454

You are designing a large-scale DMVPN network with more than 500 spokes using EIGRP as the IGP protocol. Which design option eliminates potential tunnel down events on the spoke routers due to the holding time expiration?

- A. Increase the hold queue on the physical interface of the hub router.
- B. Apply QoS for pak_priority class
- C. Increase the hold queue on the physical interface of the spoke routers.
- D. **Increase the hold queue on the tunnel interface of the hub router**
- E. Increase the hold queue on the tunnel interface of the spoke routers

Answer: D

NEW QUESTION # 455

You are designing a large-scale DMVPN network with more than 500 spokes using EIGRP as the IGP protocol. Which design option eliminates potential tunnel down events on the spoke routers due to the holding time expiration?

- A. Increase the hold queue on the tunnel interface of the hub router
- B. Apply QoS for pak_priority class
- C. Increase the hold queue on the physical interface of the hub router
- D. Increase the hold queue on the physical interface of the spoke routers
- E. **Increase the hold queue on the tunnel interface of the spoke routers**

Answer: E

Explanation:

In DMVPN designs with many spokes, spokes may fail to receive periodic keepalives or routing updates if queues overflow during congestion, causing holding timers to expire and tunnels to flap. Increasing the hold queue size on the tunnel interface of the spoke routers allows them to buffer control plane packets during congestion and avoid premature tunnel teardown.

Why other options are incorrect:

- * A, C, E: Physical interface queues do not directly affect tunnel protocol timers.
- * D: QoS may help prioritize control plane traffic but doesn't address queue depth directly, which is the root cause of the issue.

NEW QUESTION # 456

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