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Cisco Certified Design Expert (CCDE) is one of the most sought-after certifications in the IT industry. It is a highly specialized certification that validates the skills of network design professionals. The Cisco 400-007 Exam is the written portion of the CCDE v3.0 certification. 400-007 exam tests candidates on their ability to design complex networks and provide solutions to real-world problems.

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The CCDE certification exam is designed to be challenging and requires a high level of expertise and experience. Candidates must have a deep understanding of network design principles and best practices, as well as a solid understanding of Cisco networking technologies and solutions. Candidates must also be able to demonstrate strong problem-solving skills, as the exam includes complex scenarios that require the candidate to design and implement solutions to real-world problems.

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

(Q396-Q401):

NEW QUESTION # 396

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

Answer: C

Explanation:

* CPPr (Control Plane Protection) allows classification and policing of traffic destined for the control plane at a more granular level than CoPP.

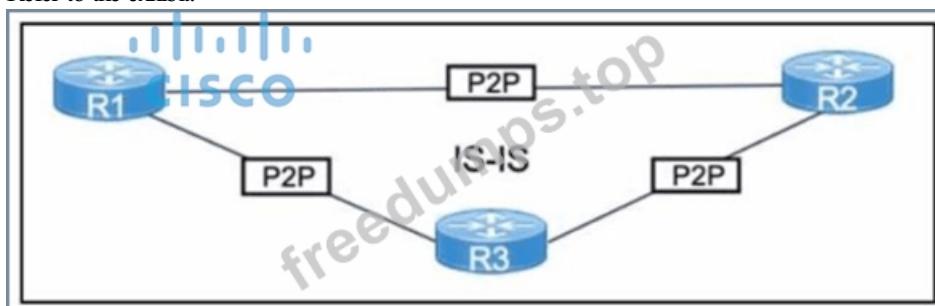
* It protects the router from control plane attacks such as reconnaissance scans and DoS targeting interfaces and sub-interfaces.

Why other options are incorrect:

- * A: MPP protects management plane access, not data/control plane protection.
- * C: CoPP offers global control plane policing but lacks CPPr's granularity.
- * D: DPP is not a standard Cisco security mechanism.

NEW QUESTION # 397

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. Implement BFD
- C. Enable LSP fast flood
- D. Increase fast hello timers

Answer: B

Explanation:

To achieve subsecond convergence in IS-IS or OSPF networks and quickly detect both:

- * Link-layer failures (e.g., interface flaps)
- * Control-plane adjacency loss

The best solution is:

* C. BFD (Bidirectional Forwarding Detection): A lightweight protocol that enables subsecond failure detection, independent of the IGP timers, by establishing fast detection sessions over forwarding paths.

This is widely deployed in high-performance networks to accelerate convergence without compromising routing stability.

Why other options fall short:

- * A. Debounce timers delay interface-down events (not suitable when fast detection is required).
- * B. Fast hellos affect hello interval but are still slower and CPU-intensive.
- * D. LSP fast flood improves LSP propagation but doesn't address failure detection speed.

This solution is central to CCDE "Protocol Design Implications" where rapid failure detection and recovery drive the convergence architecture.

NEW QUESTION # 398

Organic growth or decline comes from a company's normal business activities, rather than through acquisitions or divestment. Changes in usage patterns can also cause organic change in network requirements. Which tool is useful when designing and operationalizing a network that is in the process of change?

- A. modularity
- B. monitoring
- C. mobility
- D. **change management**

Answer: D

NEW QUESTION # 399

Your company utilizes many different types of network transports and you want to increase the efficiency of the network. Which solution can be used to improve network efficiency over PPPoE, IPsec, and GRE networks?

- A. IRDP
- B. **PMTUD**
- C. Host Discovery Protocol
- D. OATM

Answer: B

NEW QUESTION # 400

Refer to the exhibit.

	Equipment Cost	ISP Cost	Licenses Cost
SD-WAN over L3VPN	\$\$	\$\$	\$\$\$
SD-WAN over L2VPN	SS	\$	\$\$\$
Managed SD-WAN	S	SSS	-
DMVPN over L3VPN	SS	\$\$	\$

The WAN network of the General Bank of Greece has experienced several outages. It takes too long to activate a new branch site. The networking department of the bank plans to upgrade the legacy end-of-life WAN network with a new flexible, manageable, and scalable in-house solution. The number of branches will increase exponentially in the next fiscal year. The CTO states that the bank's main goal is OPEX reduction.

The network engineering team prepares a table to evaluate the available options. Which WAN technology can be used for the solution?

- A. Managed SD-WAN
- B. SD-WAN over L2VPN
- C. DMVPN over L3VPN
- D. **SD-WAN over L3VPN**

Answer: D

Explanation:

The scenario prioritizes:

- * In-house management (not managed services)
- * Scalability (exponential branch growth)
- * OPEX reduction (low operational cost)

SD-WAN over L3VPN offers a balance of:

- * Mid-level ISP cost (leveraging L3VPN as transport)
- * Centralized management and automation (ZTP, templates)
- * Support for segmentation, application-aware routing, and path control
- * Lower OPEX due to simplified configuration and monitoring

Managed SD-WAN has higher ISP and OPEX cost, and DMVPN is more manual and complex to scale. SD-WAN over L2VPN might reduce ISP cost but is less common and not optimal for rapid scalability.

NEW QUESTION # 401

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