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300-540 Latest Dumps Book, 300-540 Exam Preview

The Designing and Implementing Cisco Service Provider Cloud Network Infrastructure (300-540) certification examination is an essential component of professional development, and passing this Cisco 300-540 test can increase career options and a rise in

salary. Nonetheless, getting ready for the Prepare for your 300-540 Exam may be difficult, and many working professionals have trouble locating the 300-540 practice questions they need to succeed in this endeavor.

Cisco 300-540 Exam Syllabus Topics:

Topic	Details
Topic 1	• High Availability: This section of the exam measures the skills of Cloud Infrastructure Architects and covers the design and implementation of redundancy and resiliency mechanisms in virtualized network functions and distributed cloud platforms. It includes data plane redundancy for VNFs, high availability within a single VIM control plane, and resilient compute, vNIC, and top-of-rack switching. The exam requires an understanding of multi-homing, EVLAG configurations, virtual private cloud deployment, and ECMP strategies for NFVI integrations with physical routing protocols such as BGP, OSPF, and IS-IS. Candidates must also recommend suitable high-availability models involving DNS, routing, and load balancing.
Topic 2	• Cloud Interconnect: This section of the exam measures the skills of Service Provider Network Engineers and covers how large networks interconnect with cloud platforms and carrier-neutral facilities. Candidates are expected to understand various connectivity options to cloud providers, customer sites, and other neutral facilities, as well as evaluate WAN connectivity models such as direct connect, MPLS or segment routing, and IPsec VPN links. The domain also includes the ability to troubleshoot advanced data center interconnect solutions, including EVPN VXLAN, EVPN over SR • MPLS, ACI-based connectivity, and pseudowire architectures supporting cloud-to-cloud and cloud-to-edge communication.
Topic 3	• Security: This section of the exam measures the skills of Network Security Engineers and covers the implementation of infrastructure-level protection in cloud and NFVI ecosystems. It includes topics such as ACLs, uRPF, RTBH, router hardening, BGP flowspec, TACACS, and MACSEC. Candidates should understand DoS mitigation methods and apply security practices within NFVI, focusing on API protection, securing the control and management plane, and segmentation strategies in service provider cloud environments. The domain also evaluates basic knowledge of TLS, mTLS, and general cloud security solutions related to DNS protection, zero-day defenses, and malware detection.
Topic 4	• Service Assurance and Optimization: This section of the exam measures the skills of Cloud Operations Engineers and covers assurance mechanisms used to maintain performance, stability, and visibility across NFVI environments. It includes network assurance concepts such as MANO frameworks, VNF workload monitoring, VIM control plane KPIs, and streaming telemetry with gRPC and gNMI. Candidates must understand cloud infrastructure performance monitoring tools, including SR-PM, NetFlow, IPFIX, syslog, SNMP traps, RMON, cloud agents, and automated fault management systems. The domain also touches on diagnosing NFVI-related errors and optimizing VNFs using techniques such as SR-IOV and software-accelerated virtual switching technologies like DPDK and VPP.
Topic 5	• Virtualized Architecture: This section of the exam measures the skills of Cloud Network Engineers and covers the foundational concepts of virtualized infrastructures used in modern service provider and cloud environments. Candidates are expected to understand constraints in IaaS designs, determine appropriate cloud service models, and demonstrate awareness of container orchestration compared to traditional virtual machines. The exam also evaluates the ability to implement key virtualization functions such as NFV, VNF, NSO, and virtualized Cisco platforms. Learners must be able to deploy NFV with automation tools, manage VNF onboarding, work with NSO-driven orchestration, and use protocols like NETCONF, RESTCONF, REST APIs, and gNMI within automated cloud ecosystems. A general understanding of supporting platforms such as OpenStack also forms part of the required knowledge in this domain.

Cisco Designing and Implementing Cisco Service Provider Cloud Network Infrastructure Sample Questions (Q63-Q68):

NEW QUESTION # 63
BGP multi-path is used in ECMP to enable _____ routing paths for traffic.

- A. no
- B. single
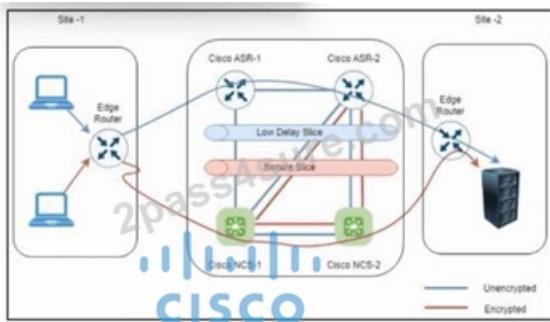- **C. multiple**
- D. dual

Answer: C

NEW QUESTION # 64

The primary benefit of MACSEC is:

- A. Authenticating users accessing the network
- B. Filtering traffic based on content
- C. Increasing the speed of network devices
- **D. Encrypting frames on a network**

Answer: D

NEW QUESTION # 65

Refer to the exhibit. An engineer must design a solution that creates a low-latency slice based on a link latency measurement by using the MPLS performance measurement. The solution must create a secure slice that minimizes transport costs and meets transport SLAs beyond best effort. What must be used?

- A. AWS Direct Connect
- **B. Segment routing**
- C. IPsec VPN
- D. Transit VPC for AWS

Answer: B

Explanation:
The requirements in the scenario match the capabilities ofSegment Routing (SR-MPLS)combined with MPLS Performance Measurement (MPM):
1. Low-latency slice creation
Segment Routing allows deterministic paths using:
* SR-TE (Traffic Engineering)
* Colored or intent-based policies
* Path selection based onlink latency, loss, bandwidth, or utilization
MPLS Performance Measurement supplies real-time data such as:
* One-way delay
* Round-trip delay
* Loss metricsThis allows SR-TE to compute paths withminimum latency.
2. Secure slice with minimized transport cost
Segment Routing supports:
* Slicing throughSR Policies
* Steering encrypted traffic (IPsec/GETVPN) through specific SR tunnels
* Traffic separation without requiring additional MPLS LSP state in the core
* Optimizing transport cost via constraint-based TE computations
3. Transport SLA enforcement beyond best effort
SR-TE + MPM provides:

* SLA-aware intent routing
* Guaranteed performance paths
* Automatic re-optimization if links violate latency or loss SLAs
Why the other options are incorrect
* B. IPsec VPNProvides encryption but does not offerlatency-aware or SLA-based path selection. Not a slicing mechanism.
* C. AWS Direct ConnectCloud connectivity service. Not related to MPLS performance monitoring or transport slicing.
* D. Transit VPC for AWSUsed for SD-WAN cloud integration. Does not support SR-TE slicing or MPLS SLAs.
Therefore, onlySegment Routingprovides latency-based path computation, slicing, SLA guarantees, and cost optimization.

NEW QUESTION # 66
Which cloud provider connection permits BGP peering?

- A. Azure Bastion
- B. AWS Direct Connect
- C. Azure S2S VPN
- D. AWS-managed VPN

Answer: B

Explanation:
Comprehensive and Detailed Explanation
Cloud interconnects that support BGP peering must provide a routed Layer-3 adjacency capable of exchanging routing information dynamically. In major cloud architectures:
AWS Direct Connect supports private virtual interfaces (VIFs) where BGP is used between the customer router and AWS to exchange routes.
Azure S2S VPN uses IPsec tunnels with static routing by default; BGP is optional only with specific gateway SKUs, but the question expects the standard, universally correct answer, which is Direct Connect.
Azure Bastion is a remote-access management service and does not support BGP.
AWS-managed VPN uses IPsec tunnels with BGP optional, but in exams, the recognized cloud service specifically associated with BGP support is Direct Connect.
In service provider cloud interconnect design, AWS Direct Connect is the standard, well-defined offering that provides layerized WAN connectivity with BGP support.

NEW QUESTION # 67
A zero-day exploit refers to:

- A. A vulnerability that the attacker discovers before the developer
- B. A flaw that has been known for at least a day
- C. An attack that occurs on the same day a security patch is released
- D. A bug that is fixed immediately upon discovery

Answer: A

NEW QUESTION # 68
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