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Exam   :   300-540

Title   :   Designing and Implementing
Cisco Service Provider
Cloud Network
Infrastructure

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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	• 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 4	• 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.
Topic 5	• 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.

Cisco Designing and Implementing Cisco Service Provider Cloud Network Infrastructure Sample Questions (Q157-Q162):

NEW QUESTION # 157
OpenStack is:

- A. A hardware-based networking solution
- B. An open-source cloud computing platform for public and private clouds
- C. A programming language for network automation
- D. A proprietary virtualization platform

Answer: B

NEW QUESTION # 158

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. Transit VPC for AWS
- C. IPsec VPN
- D. Segment routing

Answer: D

Explanation:
The requirements in the scenario match the capabilities of Segment 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 on link latency, loss, bandwidth, or utilization
MPLS Performance Measurement supplies real-time data such as:
* One-way delay
* Round-trip delay
* Loss metrics This allows SR-TE to compute paths with minimum latency.
2. Secure slice with minimized transport cost
Segment Routing supports:
* Slicing through SR 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 VPN Provides encryption but does not offer latency-aware or SLA-based path selection. Not a slicing mechanism.
* C. AWS Direct Connect Cloud connectivity service. Not related to MPLS performance monitoring or transport slicing.
* D. Transit VPC for AWS Used for SD-WAN cloud integration. Does not support SR-TE slicing or MPLS SLAs.
Therefore, only Segment Routing provides latency-based path computation, slicing, SLA guarantees, and cost optimization.

NEW QUESTION # 159

For infrastructure security, which of the following is NOT typically a focus area?

- A. Implementing ACLs for traffic filtering
- B. Encrypting data in transit with MACSEC
- C. Hardening routers to prevent unauthorized access
- D. Enhancing user interface designs

Answer: D

NEW QUESTION # 160

Refer to the exhibit. An engineer must configure iBGP multipath load sharing across three paths. Which two commands must be run on router R2? (Choose two.)

- A. maximum-paths ibgp 3
- B. ip load-sharing per-destination
- C. router bgp 101
- D. router bgp 100
- E. ip load-sharing ibgp 3

Answer: A,D

Explanation:
RouterR2is insideAS 100and has three iBGP paths (via R3, R4, R5) toward AS 101. To performiBGP multipathacross these three equal-cost paths, BGP must:
* Run the correct BGP process forAS 100
* Allow installation of multiple iBGP paths in the routing table
This is done with:
router bgp 100
maximum-paths ibgp 3
* router bgp 100- enters the BGP process for AS 100 (correct AS per diagram).
* maximum-paths ibgp 3- tells BGP to keep up to 3 iBGP paths to the same destination, enabling CEF to load-share across them.
Other options:
* ip load-sharing ibgp 3- not a valid command.
* router bgp 101- wrong AS number.
* ip load-sharing per-destination- controls CEF hashing but does not enable BGP to install multiple iBGP paths by itself.

NEW QUESTION # 161

Which command must be run on a Cisco IOS device to configure six parallel iBGP and eBGP routes that can be installed into a routing table?

- A. maximum paths bgp 6
- B. multipath eibgp 6
- C. maximum-paths eibgp 6
- D. maximum paths bgp routers 6

Answer: A

Explanation:
Comprehensive and Detailed Explanation From Cisco SP Core Optimization Knowledge Cisco IOS supportsBGP Multipathfor installing multiple equal-cost BGP routes (both iBGP and eBGP) into the routing table. The correct global BGP command syntax to set the number of allowable parallel BGP paths is:
maximum-paths <number>
For BGP specifically, the form is:
maximum-paths bgp <number>
This enables the router to install up to the specified number of equal-cost BGP routes (iBGP and eBGP) into the RIB and then potentially into the FIB.
Setting:
maximum-paths bgp 6
allowssixparallel ECMP paths learned via BGP-this matches the requirement in the question.
Why the other options are incorrect
* B. multipath eibgp 6Not a valid Cisco IOS command.
* C. maximum paths bgp routers 6Invalid syntax.
* D. maximum-paths eibgp 6The correct keyword isbgp, noteibgp.Cisco does not use "eibgp" in this context; IOS supports BGP multipath across iBGP/eBGP automatically when configured under maximum-paths bgp.

NEW QUESTION # 162

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