300-540 Reliable Exam Price: Designing and Implementing Cisco Service Provider Cloud Network Infrastructure - High Pass-Rate Cisco 300-540 100% Correct Answers

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Cisco 300-540 Exam Syllabus Topics:

Topic	Details
Topic 1	• 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 2	• 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 3	• 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 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	• 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.

Cisco Designing and Implementing Cisco Service Provider Cloud Network Infrastructure Sample Questions (Q20-Q25):

NEW QUESTION # 20
Which KPI is essential in the VIM control plane for network assurance?

- A. CPU utilization
- B. Number of physical routers
- C. Encryption rate

- D. Cable length

Answer: A

NEW QUESTION # 21

Refer to the exhibit. An engineer must configure EVPN port-active multihoming on router R1. Which command must be run against the g1/0 and g1/1 interfaces on R1 to complete the physical Ethernet bundle for multihoming on a host named Host-1?

- A. evpn ethernet-segment 1
- B. bundle id 1 mode active
- C. switchport mode trunk
- D. encapsulation dot1q 1

Answer: B

Explanation:
From Cisco's EVPN VXLAN multihoming design requirements,port-active multihominguses asingle LAG (EtherChannel / Bundle-Ether)between the host/router and the pair of leaf switches. All physical interfaces participating in that bundle must be configured with:
bundle id <number> mode active
This command:
* Associates the physical interfaces (g1/0 and g1/1) withBundle-Ether1.
* UsesLACP activemode, which is required for EVPN port-active multihoming.
* Enables the host-facing port-channel required to support EVPN multihomed connectivity.
In the exhibit, R1 already has:
interface Bundle-Ether1
description "Bundle to Leaf-1"
interface Bundle-Ether1.10
ip address 192.168.10.1 255.255.255.0
This confirms that the engineer intends to bundleg1/0andg1/1together intoBundle-Ether1, and the missing step is adding the interfaces into that bundle.
The correct configuration is:
interface g1/0
bundle id 1 mode active
interface g1/1
bundle id 1 mode active
Why the other options are incorrect
* A. evpn ethernet-segment 1This command is used on EVPN leaf switches (not R1) to define an ESI for multihoming. R1 is not an EVPN VTEP.
* B. switchport mode trunkR1 is a router, not a switch. L3 interfaces do not use switchport.
* C. encapsulation dot1q 1This applies only to subinterfaces, not physical interfaces, and is unrelated to building a LAG for port-active multihoming.

NEW QUESTION # 22

Which of the following are connectivity options to cloud providers from carrier-neutral facilities?

- A. Public internet
- B. Dedicated leased lines
- C. Dial-up access
- D. Direct connect

Answer: B,D

NEW QUESTION # 23

Secure NFVI control and management plane involves:

- A. Authentication and encryption

- B. Public internet access
- C. Removing all passwords
- D. Unrestricted API access

Answer: A

NEW QUESTION # 24
SR-IOV is used in VNF optimization to:

- A. Provide direct virtual function access to improve performance
- B. Monitor physical network connections
- C. Encrypt data traffic
- D. Reduce network virtualization benefits

Answer: A

NEW QUESTION # 25
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