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Cisco 300-540 Exam Syllabus Topics:

Topic	Details
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Topic 1	<ul style="list-style-type: none"> 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 2	<ul style="list-style-type: none"> 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 3	<ul style="list-style-type: none"> 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	<ul style="list-style-type: none"> 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 5	<ul style="list-style-type: none"> 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 (Q112-Q117):

NEW QUESTION # 112

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. encapsulation dot1q 1
- D. switchport mode trunk

Answer: B

Explanation:

From Cisco's EVPN VXLAN multihoming design requirements, port-active multihoming uses a single 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) with Bundle-Ether1.
- * Uses LACP active mode, 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 bundle g1/0 and g1/1 together into Bundle-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 1 This command is used on EVPN leaf switches (not R1) to define an ESI for multihoming. R1 is not an EVPN VTEP.
- * B. switchport mode trunk R1 is a router, not a switch. L3 interfaces do not use switchport.
- * C. encapsulation dot1q 1 This applies only to subinterfaces, not physical interfaces, and is unrelated to building a LAG for port-active multihoming.

NEW QUESTION # 113

What is Virtualized Architecture primarily used for in the context of IT infrastructure?

- A. Reducing the need for physical hardware
- B. Decreasing system security
- C. Increasing physical hardware costs
- D. Simplifying legal compliance

Answer: A

NEW QUESTION # 114

An engineer must configure NTP servers in Cisco Enterprise NFVIS. The primary NTP server has an IP address of 192.168.1.1 and the backup NTP server has an IP address of 192.168.2.1. Which two commands must be run to complete the configuration? (Choose two.)

- A. utils ntp server add 192.168.2.1 backup
- B. system time ntp preferred_server 192.168.1.1
- C. system set-manual-time 192.168.1.1 192.168.2.1
- D. system time ntp backup_server 192.168.2.1
- E. utils ntp server add 192.168.1.1 primary

Answer: B,D

Explanation:

In Cisco Enterprise NFVIS, time synchronization is configured using the system time ntp command structure.

NFVIS requires a primary and optionally a backup NTP server to maintain accurate system time for the hypervisor and guest VMs. Correct NFVIS command syntax for NTP configuration:

* system time ntp preferred_server <IP> This command configures the preferred (primary) NTP server used for system clock synchronization.

* system time ntp backup_server <IP> This command configures the backup NTP server, which the system uses if the primary becomes unreachable.

These two commands match Cisco NFVIS time-configuration behavior described in NFV infrastructure design and implementation guidelines.

Why the Correct Answers Are A and E

Option A: system time ntp preferred_server 192.168.1.1

This properly configures the primary NTP server in NFVIS. The preferred server is always the first choice for time synchronization.

Option E: system time ntp backup_server 192.168.2.1

This correctly configures the backup NTP server. If the preferred server fails, NFVIS automatically falls back to the backup server.

Both commands directly match NFVIS's NTP command hierarchy and are the only ones that correctly apply to NFVIS.

Why the Other Options Are Not Correct

Option B uses utils ntp, which is not an NFVIS command.

Option C sets manual time and does not configure NTP servers.

Option D also uses the utils ntp syntax, which applies to other Cisco platforms but not NFVIS.

NEW QUESTION # 115

The primary purpose of container orchestration tools like Kubernetes is to:

- A. Increase manual intervention in container management
- B. Manage physical server allocations
- **C. Manage the lifecycle of containers**
- D. Decrease the scalability of applications

Answer: C

NEW QUESTION # 116

VNF data plane redundancy can be achieved by:

- A. Disabling network resiliency features
- B. Placing all VNFs on a single host
- **C. Using placement strategies and network resiliency**
- D. Limiting the use of redundant hardware

Answer: C

NEW QUESTION # 117

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