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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	<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"> 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 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"> 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.

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Cisco Designing and Implementing Cisco Service Provider Cloud Network Infrastructure Sample Questions (Q180-Q185):

NEW QUESTION # 180

TLS and mTLS are protocols used for:

- A. Encryption and secure communication
- B. Access control
- C. Traffic shaping
- D. Routing

Answer: A

NEW QUESTION # 181

DNS security is essential for preventing:

- A. DNS poisoning and DDoS attacks
- B. Physical access breaches
- C. Hardware failures
- D. Power outages

Answer: A

NEW QUESTION # 182

Refer to the exhibit. An engineer must configure an IPsec VPN connection between site 1 and site 2. The ISAKMP policy for the phase 1 negotiations of the tunnel must use AES and SHA-256. This configuration was applied to both PE routers; however, the tunnel fails to come up:

```
crypto isakmp policy 10
```

```
encryption 3des
```

```
hash md5
```

```
authentication pre-share
```

```
group 12
```

Which two commands must be run on router PE1 to resolve the issue? (Choose two.)

- A. group 10
- B. encryption aes
- C. hash sha256
- D. hash aes
- E. encryption sha256

Answer: B,C

Explanation:

Phase 1 of an IPsec tunnel (ISAKMP/IKE) must have matching proposal on both peers for:

- * Encryption algorithm
- * Hash (integrity) algorithm
- * Authentication method
- * DH group

The requirement states that AES and SHA-256 must be used. The current configuration uses:

- * encryption 3des # incorrect (must be AES)
- * hash md5 # incorrect (must be SHA-256)

To meet the requirement, we must modify the ISAKMP policy:

```
crypto isakmp policy 10
```

```
encryption aes # change 3DES to AES
```

```
hash sha256 # change MD5 to SHA-256
```

```
authentication pre-share
```

```
group 12
```

Therefore, the necessary commands on PE1 are:

- * encryption aes # option B
- * hash sha256 # option E

Options C and D are invalid syntax (encryption sha256 and hash aes are not supported). Changing the DH group (A) is not required by the problem statement and would not by itself fix the mismatch related to encryption and hash algorithms.

NEW QUESTION # 183

Software accelerated virtual switch technologies like DPDK and VPP aim to:

- A. Slow down packet processing
- B. Increase physical network dependency

- C. Decrease network security
- **D. Improve network function virtualization performance**

Answer: D

NEW QUESTION # 184

An engineer must add VNF implementation definitions and VNF service definitions to an OpenStack deployment data model to deploy virtual routers and firewalls to an enterprise network. After the virtual machine resources are prepared, which action must be taken next?

- A. Create the initial configuration for day zero.
- B. Specify the operational characteristics.
- C. Configure key performance indicator monitoring.
- **D. Define the NFV network.**

Answer: D

Explanation:

In an NFV environment following Cisco NFV Infrastructure and ETSI MANO architecture, the onboarding workflow for VNF deployment follows this high-level order:

- * Define VNF descriptors (VNFD and NSD)- Includes implementation details and service definitions.
- * Prepare virtual machine resources- Flavor, image, CPU/memory/storage, and placement.
- * Define the NFV network- This step builds the underlay/overlay connectivity needed for the VNF.- It includes virtual network creation, interfaces, VLs (Virtual Links), connection points, and mapping into OpenStack (Neutron networks, subnets, ports).- No VNF can be deployed until the NFV service networks (management, control, data, HA) are defined.
- * Apply Day-0 configuration- Bootstrapping/initial config.
- * Apply Day-1 operational characteristics- Routing, services, policies.
- * Configure operational monitoring (KPIs)- Performance and fault measurements.

Since the question states "after the VM resources are prepared", the next mandatory stage is defining the virtual network connectivity on which the VNFs will operate.

NEW QUESTION # 185

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