

300-540 Dumps Torrent & 300-540 Practice Questions & 300-540 Exam Guide

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1. SNMP traps are utilized for which of the following purposes?

- A. Encrypting data packets
- B. Monitoring network performance in real-time
- C. Sending unsolicited alerts from network devices to a management station
- D. Virtualizing network functions

Answer: C

2. A common DoS mitigation technique is:

- A. Increasing bandwidth
- B. Using a single firewall
- C. Rate limiting
- D. Removing all filters

Answer: C

3. Secure NFVI control and management plane involves:

- A. Removing all passwords
- B. Public internet access
- C. Authentication and encryption
- D. Unrestricted API access

Answer: C

4. MACSEC provides security through:

- A. Authentication
- B. Encryption
- C. Policy enforcement
- D. Traffic specification

Answer: B

5. Network segmentation is critical in a cloud environment for:

- A. Simplifying network topology
- B. Enhancing performance by reducing security
- C. Enabling unrestricted access between zones
- D. Limiting the spread of breaches and attacks

Answer: D

6. Multi-homing is beneficial for:

- A. Creating a single point of failure
- B. Increasing dependency on a single ISP
- C. Enhancing redundancy and resilience
- D. Simplifying network architecture

Answer: C

7. Connectivity options to other carrier-neutral facilities enhance:

- A. Vendor lock-in

2 / 4

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Cisco 300-540 Exam Syllabus Topics:

Topic	Details
Topic 1	<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 2	<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 3	<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 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 (Q145-Q150):

NEW QUESTION # 145

Network segmentation is critical in a cloud environment for:

- A. Simplifying network topology
- **B. Limiting the spread of breaches and attacks**
- C. Enhancing performance by reducing security
- D. Enabling unrestricted access between zones

Answer: B

NEW QUESTION # 146

What does enabling gRPC allow in Cisco NFVI Assurance and Monitoring?

- A. Cisco IOS NetFlow monitoring
- B. system logging
- C. IPFIX monitoring
- **D. telemetry streaming**

Answer: D

Explanation:

Comprehensive and Detailed Explanation

In Cisco NFV Infrastructure (NFVI) Assurance and Monitoring, enabling gRPC activates the device's ability to support model-driven telemetry streaming.

Key points from Cisco SP Cloud/NFVI design principles:

gRPC is used as the transport protocol for model-driven telemetry.

Telemetry replaces traditional polling methods (SNMP, CLI scraping) with continuous, push-based updates.

It allows NFVI components to stream real-time operational data (CPU, memory, interfaces, VM metrics, fabric state) to collectors such as Cisco Crosswork, InfluxDB, Prometheus, or other analytic systems.

gRPC does not provide NetFlow/IPFIX export or syslog itself; those are separate subsystems.

Evaluation of options:

- A). telemetry streaming - Correct. gRPC enables model-driven streaming telemetry.
- B). IPFIX monitoring - Incorrect; IPFIX uses UDP exports, not gRPC.
- C). Cisco IOS NetFlow monitoring - Incorrect; uses NetFlow export protocols.
- D). system logging - Incorrect; syslog uses UDP/TCP, not gRPC.

NEW QUESTION # 147

VIM control plane KPIs are important for:

- A. Decreasing network traffic
- B. Tracking physical server health
- **C. Monitoring virtual infrastructure manager performance**
- D. Manual network configurations

Answer: C

NEW QUESTION # 148

API security is crucial for protecting:

- A. Network cables
- B. Physical devices only
- C. Data storage units
- **D. Software interfaces**

Answer: D

NEW QUESTION # 149

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

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

Answer: C

NEW QUESTION # 150

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