

Exam 300-540 Objectives - Cisco Trustworthy 300-540 Pdf: Designing and Implementing Cisco Service Provider Cloud Network Infrastructure Pass Success

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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"> • 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	<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 3	<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 4	<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 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.

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Cisco Designing and Implementing Cisco Service Provider Cloud Network Infrastructure Sample Questions (Q82-Q87):

NEW QUESTION # 82

Virus detectors are crucial for:

- A. Enhancing the physical security of network devices
- **B. Detecting and removing malicious software**
- C. Managing network bandwidth effectively
- D. Increasing the efficiency of network protocols

Answer: B

NEW QUESTION # 83

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 # 84

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

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

Answer: A

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 # 85

A Virtual Network Function (VNF) is used to:

- A. Increase the physical network functions
- **B. Replace traditional network hardware with software**
- C. Decrease network flexibility
- D. Physicalize software functions

Answer: B

NEW QUESTION # 86

Which cloud provider connection permits BGP peering?

- A. Azure S2S VPN
- B. AWS-managed VPN
- C. Azure Bastion
- **D. AWS Direct Connect**

Answer: D

Explanation:

Comprehensive and Detailed Explanation

Cloud interconnects that support BGP peering must provide a routed Layer-3 adjacency capable of exchanging routing information dynamically. In major cloud architectures:

AWS Direct Connect supports private virtual interfaces (VIFs) where BGP is used between the customer router and AWS to exchange routes.

Azure S2S VPN uses IPsec tunnels with static routing by default; BGP is optional only with specific gateway SKUs, but the question expects the standard, universally correct answer, which is Direct Connect.

Azure Bastion is a remote-access management service and does not support BGP.

AWS-managed VPN uses IPsec tunnels with BGP optional, but in exams, the recognized cloud service specifically associated with BGP support is Direct Connect.

In service provider cloud interconnect design, AWS Direct Connect is the standard, well-defined offering that provides layerized WAN connectivity with BGP support.

NEW QUESTION # 87

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