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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"> 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 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"> 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	<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.

Cisco Designing and Implementing Cisco Service Provider Cloud Network Infrastructure Sample Questions (Q160-Q165):

NEW QUESTION # 160

In high availability design, DNS is used to ensure _____.

- A. authentication
- B. encryption
- C. redundancy
- D. compression

Answer: C

NEW QUESTION # 161

Diagnosing NFVI errors and events often requires:

- A. Manual log review
- B. Automated monitoring tools
- C. Decreasing security measures
- D. Ignoring alerts

Answer: B

NEW QUESTION # 162

An engineer must design a cloud platform for managing IaC. The solution must be flexible, integrate with APIs, and allow for automation. What must be used?

- A. Cisco AppDynamics
- B. Cisco with Terraform
- C. Cloud-based sandboxes
- D. Cisco ThousandEyes

Answer: B

Explanation:

Comprehensive and Detailed Explanation

Infrastructure as Code (IaC) requires:

- * Declarative configuration
- * Automation
- * API-driven workflows
- * Multi-cloud capability
- * Integration with orchestration and provisioning tools

Terraform is a widely adopted IaC platform supporting:

- * Cloud automation (AWS, Azure, GCP, private clouds)
- * Cisco infrastructure provisioning (Nexus, ACI, IOS-XR, NSO, SD-WAN, etc.)
- * REST APIs and providers for programmability

Cisco provides official Terraform providers for multiple platforms, enabling full IaC operations. This aligns exactly with SP cloud automation design principles.

Other options:

- * Cloud-based sandboxes# For testing, not IaC automation
- * ThousandEyes# Monitoring and performance analytics
- * AppDynamics# Application performance management

NEW QUESTION # 163

NetFlow and IPFIX are protocols used for:

- A. Traffic analysis and monitoring
- B. Network configuration
- C. Physical layer diagnostics
- D. Data encryption

Answer: A

SR-PM is related to:

- Answer: B**

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