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Cisco 300-540 Exam Syllabus Topics:

Topic	Details

Topic 1	• 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	• 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	• 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 4	• 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	• 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.

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Cisco Designing and Implementing Cisco Service Provider Cloud Network Infrastructure Sample Questions (Q170-Q175):

NEW QUESTION # 170

Implementing _____ from NFVI to physical infrastructure optimizes routing efficiency and redundancy.

- A. Single-path
- B. Direct connections
- C. ECMP
- D. Static routing

Answer: C

NEW QUESTION # 171

For infrastructure security, which of the following is NOT typically a focus area?

- A. Encrypting data in transit with MACSEC
- B. Hardening routers to prevent unauthorized access
- C. Implementing ACLs for traffic filtering
- D. Enhancing user interface designs

Answer: D

NEW QUESTION # 172

Carrier-neutral facilities offer connectivity options to cloud providers through which of the following?
(Choose two)

- A. Dedicated leased lines
- B. Direct connect services
- C. Dial-up connections
- D. Public internet gateways

Answer: A,B

NEW QUESTION # 173

An engineer must design a cloud platform for event-driven applications. The solution must allow micro-sized atomic components to be built, deployed, and run code on demand. Which solution must be used?

- A. Cisco+ Hybrid Cloud for Virtual Desktop Infrastructure
- B. Cisco+ Hybrid Cloud Virtualization
- C. Cisco Intersight
- D. Cisco FaaS

Answer: D

Explanation:
Comprehensive and Detailed Explanation From Cisco Cloud Architecture Knowledge Event-driven applications require:
* Stateless, micro-sized execution units
* Automatic scaling
* Code that runs only when triggered
* No server or VM lifecycle management
This model is known as Function-as-a-Service (FaaS).
Cisco FaaS provides:
* Serverless execution
* Event-driven triggers
* Deployment of atomic micro-functions
* Automatic scaling and resource abstraction

* Ideal environment for microservices and cloud-native workloads
Why the others are incorrect:
* A. Cisco+ Hybrid Cloud for VDI# delivers desktops, not serverless compute
* C. Cisco+ Hybrid Cloud Virtualization# VM-based infrastructure, not event-driven micro-functions
* D. Cisco Intersight# operational management tool, not a serverless execution platform

NEW QUESTION # 174
Software-accelerated virtual switches like DPDK and VPP enhance VNF performance by:

- A. Lowering network throughput
- B. Increasing network latency
- C. Improving packet processing speed
- D. Reducing the need for high availability

Answer: C

NEW QUESTION # 175
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