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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"> 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"> 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"> 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 5	<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.

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Cisco Designing and Implementing Cisco Service Provider Cloud Network Infrastructure Sample Questions (Q32-Q37):

NEW QUESTION # 32

To ensure control plane high availability, deploying _____ instances across different physical servers is recommended.

- A. single
- B. duplicated
- C. isolated
- D. multiple

Answer: D

NEW QUESTION # 33

Refer to the exhibit. An engineer is troubleshooting a Cisco NFVI issue where the management node fails to start. Which service must be restarted to resolve the issue?

- A. docker
- B. docker-kibana
- C. docker-cobbler
- D. kube-apiserver

Answer: A

Explanation:

In Cisco NFVI, the management node relies heavily on Docker containers for:

- * NFVIS management functions
- * VIM services
- * Orchestration components

If the management node fails to start and the system shows:

docker.service: inactive (dead)

...then all Docker-based platform services also fail to start.

The correct recovery action is to restart the Docker engine:

systemctl restart docker

This brings up:

- * All NFVI-required Docker containers
- * Management services
- * REST APIs and cluster components

Why other answers are incorrect:

* docker-kibana# Only affects Kibana logging container

* docker-cobbler# Used for provisioning, not core NFVI management

* kube-apiserver# Part of Kubernetes cluster, but relies on Docker; restarting it won't help until Docker is running. Thus, the correct answer is B. docker.

NEW QUESTION # 34

An engineer must design a high-availability solution that provides path redundancy for IP by allowing redundant gateways to share MAC protocols and addresses. A group of Layer 3 routers must be allowed to share the default gateway on a LAN, load balance, and seamlessly take over the traffic transfer role if a router in the group fails. What must be used?

- A. BFD
- B. GLBP
- C. Routed network core
- D. Load balancer

Answer: B

Explanation:

Comprehensive and Detailed Explanation

In Cisco high-availability LAN gateway designs, the requirement is:

- * Multiple L3 gateways sharing a virtual MAC and virtual IP
- * Ability to load balance across multiple active gateways
- * Capability to seamlessly take over gateway forwarding during a failure

Among Cisco First Hop Redundancy Protocols (FHRPs):

* HSRP# Active/standby only

* VRRP# Active/standby only

* GLBP (Gateway Load Balancing Protocol)#The only FHRP providing active/active load balancing GLBP allows multiple routers to share:

* A common virtual IP

* Multiple virtual MAC addresses

* Multiple active forwarders that load-balance end hosts

* Automatic failover if any gateway fails

Thus, GLBP is the only correct protocol matching the requirement for redundant default gateways with load balancing and shared MAC addressing.

NEW QUESTION # 35

The primary benefit of MACSEC is:

- A. Filtering traffic based on content
- B. Increasing the speed of network devices
- C. Encrypting frames on a network
- D. Authenticating users accessing the network

Answer: C

NEW QUESTION # 36

Automation in deploying NFV can reduce:

- A. The need for manual configuration
- B. The speed of service delivery
- C. Network reliability
- D. Software-defined networking capabilities

Answer: A

NEW QUESTION # 37

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