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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"> 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"> 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 5	<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.

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Cisco Designing and Implementing Cisco Service Provider Cloud Network Infrastructure Sample Questions (Q137-Q142):

NEW QUESTION # 137

Equal-Cost Multi-Path (ECMP) routing is used to:

- A. Ensure a single path for data flow to increase security

- B. Provide multiple paths for data to increase redundancy and load balancing
- C. Decrease bandwidth between NFVI and physical infrastructure
- D. Increase the cost of network infrastructure

Answer: B

NEW QUESTION # 138

An engineer must implement a SaaS solution that will use a Cisco ASA to enhance security for enterprise customers by using Cisco Crosswork NSO. Which command must be run in NSO?

- A. ls -l nso-instance/packages/
- B. ncs-setup
- C. ncs -status
- D. ncs

Answer: D

Explanation:

Comprehensive and Detailed Explanation From Cisco NSO Orchestration Knowledge In Cisco NSO deployments:

- * ncs-setup is only used once, during initial NSO instance creation.
- * ls -l nso-instance/packages/ simply lists packages - not used to start NSO.
- * ncs -status checks status but does not run NSO.

To actually start the NSO services so that device packages (including ASA service packages) can be loaded and orchestration can begin, the correct command is:

ncs

This launches the NSO runtime and loads all configured packages, enabling the SaaS ASA service.

NEW QUESTION # 139

Refer to the exhibit. An engineer must stop a DoS attack on web and mail servers by using destination-based RTBH routing. Which two commands must be run on router R1? (Choose two)

- A. no ip route 10.20.10.0 255.255.255.0 10.10.10.2
- B. no ip route 10.30.10.0 255.255.255.0 10.10.10.2
- C. ip route 10.30.10.2 255.255.255.255 null0
- D. ip route 10.20.10.2 255.255.255.255 null0
- E. ip route 10.20.10.1 255.255.255.255 null0

Answer: C,D

Explanation:

Destination-based Remote Triggered Black Hole (RTBH) routing is a DDoS mitigation technique where traffic to a victim's IP address is intentionally routed to a special next hop (usually Null0) so that the traffic is dropped as close to the source as possible. On the edge router (R1 in the figure), this is accomplished by installing /32 static routes for the victim endpoints, pointing to the null interface. When these routes are installed (often triggered via BGP in larger deployments), any traffic destined to those exact IP addresses is discarded.

In the topology:

- * Web server IP: 10.20.10.2
- * Mail server IP: 10.30.10.2

To perform destination-based RTBH at R1, we must configure static /32 routes to Null0 for each victim IP:

```
ip route 10.20.10.2 255.255.255.255 Null0
ip route 10.30.10.2 255.255.255.255 Null0
```

These correspond to:

- * Option C for the web server (10.20.10.2)
- * Option A for the mail server (10.30.10.2)

The other options are incorrect for RTBH:

- * BandDremove /24 routes via 10.10.10.2; they do not implement black-holing and would break normal routing rather than selectively drop attack traffic.
- * Eblack-holes 10.20.10.1, which is the default gateway on R2, not the victim server; that would impact overall connectivity instead of just dropping traffic to the attacked host.

NEW QUESTION # 140

Diagnosing NFVI errors and events often requires:

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

Answer: C

NEW QUESTION # 141

When troubleshooting DCI solutions, which of the following tools or concepts are crucial? (Choose two)

- A. SNMP for managing network devices
- B. **EVPN VXLAN for extending layer 2 services over a layer 3 network**
- C. IPsec VPN for enhancing physical security measures
- D. **ACI for centralized application-focused network policies**

Answer: B,D

NEW QUESTION # 142

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