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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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300-540 Latest Test Preparation and Cisco 300-540 New Questions: Designing and Implementing Cisco Service Provider Cloud Network Infrastructure Pass for Sure

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

NEW QUESTION # 160

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Refer to the exhibit. An engineer must configure Cisco IOS SLB for DNS on router R1 to meet these requirements:
The first DNS request to www.ccrp.test

must be redirected to the DNS server at 10.1.1.1;
The second DNS request to www.ccnr.test
must be redirected to the DNS server at 10.2.1.1;
The third DNS request to www.ccnr.test
must be redirected to the DNS server at 10.3.1.1.

In each case, the other two addresses must also be attempted if the first one fails. The indicated configuration was applied to R1; however, the load balancing failed. Which command must be run on R1 to resolve the issue?

- A. maximum-paths 3
- **B. ip domain round-robin**
- C. ip dns server
- D. ip domain retry 3

Answer: B

Explanation:

On R1 the configuration (simplified) is:

ip domain lookup

ip domain name ccnr.test

ip host www.ccnr.test 10.1.1.1 10.2.1.1 10.3.1.1

The ip host command statically maps the hostname www.ccnr.test

to three IP addresses. By default, Cisco IOS will always return these IP addresses to DNS queries in the same order they are configured (10.1.1.1, then 10.2.1.1, then 10.3.1.1). This means that clients will always attempt 10.1.1.1 first and will not achieve per-query load balancing across all three servers.

To enable DNS-based load balancing so that each successive query rotates the order of the addresses, Cisco IOS provides the command:

ip domain round-robin

This command enables round-robin rotation of multiple A records associated with a single hostname defined by ip host. With this feature enabled:

1st query: response order 10.1.1.1, 10.2.1.1, 10.3.1.1

2nd query: response order 10.2.1.1, 10.3.1.1, 10.1.1.1

3rd query: response order 10.3.1.1, 10.1.1.1, 10.2.1.1

Clients will typically try the first IP address in the list and use the others if the first one fails, exactly matching the requirement.

Why other options are incorrect:

A). ip domain retry 3 controls how many times the router retries DNS queries to a server; it does not control the order of multiple A records.

C). ip dns server turns the router into a DNS server but does not itself provide round-robin behavior for statically defined hosts.

D). maximum-paths 3 is a routing (IP forwarding) parameter for equal-cost multipath, unrelated to DNS resolution.

NEW QUESTION # 161

Refer to the exhibit. An engineer working for a private service provider with an employee ID 5207:22:409 must configure iBGP multipath load sharing across the three paths. Which two commands must be run on the PE router? (Choose two.)

- A. router bgp 101
- B. ip load-sharing ibgp 3
- **C. router bgp 100**
- D. ip load-sharing per-destination
- **E. maximum-paths ibgp 3**

Answer: C,E

Explanation:

In the diagram, the PE and R2, R3, R4, R5 belong to AS 100. The PE router runs BGP process AS 100, so its BGP configuration must start with:

router bgp 100

To perform iBGP multipath load sharing across three equal-cost internal BGP paths, BGP must be instructed to keep and use multiple iBGP paths in the routing table. This is done with:

router bgp 100

maximum-paths ibgp 3

* maximum-paths ibgp 3 tells BGP to install up to three iBGP paths to the same prefix, enabling CEF to load-share across those

paths.

* router bgp 100 is required because the PE is in AS 100, not 101.

Other options:

* ip load-sharing per-destination affects CEF behavior but does not enable BGP iBGP multipath by itself and is not specific to three iBGP paths.

* ip load-sharing ibgp 3 is not a valid IOS BGP command.

* router bgp 101 would configure the wrong AS and break the iBGP relationships shown in AS-100.

Thus, the correct commands on the PE to achieve iBGP multipath load sharing over the three internal paths are maximum-paths ibgp 3 and router bgp 100, corresponding to A and E.

NEW QUESTION # 162

Which protocol is primarily used for collecting and exporting network traffic information?

- A. gRPC
- **B. NetFlow**
- C. RMON
- D. SNMP

Answer: B

NEW QUESTION # 163

EVPN VXLAN is used to:

- A. Simplify network topology by eliminating virtual connections
- **B. Provide layer 2 connectivity over a layer 3 network**
- C. Encrypt data at the transport layer
- D. Reduce the bandwidth available between sites

Answer: B

NEW QUESTION # 164

EVPN over SR/MPLS provides advantages over traditional MPLS in terms of:

- **A. Scalability and flexibility**
- B. Cost only
- **C. Speed of deployment**
- D. Security vulnerabilities

Answer: A,C

NEW QUESTION # 165

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