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Cisco 300-540 Exam Syllabus Topics:

Topic	Details

Topic 1	• 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 2	• 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 3	• 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	• 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 5	• 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 (Q11-Q16):

NEW QUESTION # 11
Which cloud provider connection permits BGP peering?

- A. AWS Direct Connect
- B. Azure Bastion
- C. Azure S2S VPN
- D. AWS-managed VPN

Answer: A

Explanation:
Comprehensive and Detailed Explanation
Cloud interconnects that support BGP peering must provide a routed Layer-3 adjacency capable of exchanging routing information dynamically. In major cloud architectures:
AWS Direct Connect supports private virtual interfaces (VIFs) where BGP is used between the customer router and AWS to exchange routes.
Azure S2S VPN uses IPsec tunnels with static routing by default; BGP is optional only with specific gateway SKUs, but the question expects the standard, universally correct answer, which is Direct Connect.
Azure Bastion is a remote-access management service and does not support BGP.
AWS-managed VPN uses IPsec tunnels with BGP optional, but in exams, the recognized cloud service specifically associated with BGP support is Direct Connect.
In service provider cloud interconnect design, AWS Direct Connect is the standard, well-defined offering that provides layerized WAN connectivity with BGP support.

NEW QUESTION # 12
TLS and mTLS are protocols used for:

- A. Traffic shaping
- B. Access control
- C. Encryption and secure communication
- D. Routing

Answer: C

NEW QUESTION # 13
What is a capability of a Cisco NFVIS SNMP trap?

- A. Sends an unsolicited notification to the SNMP manager
- B. Controls the activities of a network host
- C. Retrieves an SNMP object variable from the MIB
- D. Monitors the activities of a network host

Answer: A

Explanation:
Comprehensive and Detailed Explanation
SNMP traps in Cisco NFVIS (and in SNMP generally):
* Areunsolicited notifications
* Sent from the NFVIS deviceto the SNMP manager
* Indicate alarms, changes, or significant operational events
* Donotrequire polling
Examples:
* Disk failures
* VM crashes
* Host status changes
* Resource alarms
Why the others are wrong:
* Adescribes SNMP monitoring (done by the manager with GET requests)
* BSNMP cannotcontrolhost activities

* DSNMP GET retrieves a variable, but traps sendunsolicitednotifications Thus, the correct answer isC.

NEW QUESTION # 14

An engineer must create a new VPC and deploy several Amazon EC2 instances in AWS. Only SSH connections originating from IP address 20.20.20.20 must be allowed to reach the EC2 instances. What must be configured?

- A. Security group
- B. Access control list
- C. Resource group
- D. Web application firewall

Answer: A

Explanation:
Comprehensive and Detailed Explanation
AWSSecurity Groupsact as the primary stateful firewalls for EC2 instances.
To restrict SSH (TCP/22) to a single host (20.20.20.20/32), aSecurity Groupmust be configured with:
* Inbound rule: TCP 22
* Source: 20.20.20.20/32
ACLs operate at the subnet level but are not used for instance-specific SSH restrictions.
WAF controls HTTP/HTTPS traffic, not SSH.
Resource groups only organize cloud assets.
Thus,Bis the correct solution.

NEW QUESTION # 15

SR-IOV technology improves network performance by:

- A. Increasing CPU utilization for network tasks
- B. Decreasing the number of available network paths
- C. Encrypting all data in transit
- D. Allowing VMs direct access to physical network interfaces

Answer: D

NEW QUESTION # 16

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