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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	• 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 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	• 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 5	• 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.

Cisco Designing and Implementing Cisco Service Provider Cloud Network Infrastructure Sample Questions (Q59-Q64):

NEW QUESTION # 59
What does NFV stand for?

- A. Network Function Virtualization
- B. Network File Versioning
- C. New Function Virtualization
- D. Network Function Visualization

Answer: A

NEW QUESTION # 60
SNMP traps are utilized for which of the following purposes?

- A. Virtualizing network functions
- B. Encrypting data packets
- C. Sending unsolicited alerts from network devices to a management station
- D. Monitoring network performance in real-time

Answer: C

NEW QUESTION # 61
Which format is used by Cisco Container Platform for configuration files?

- A. HTML
- B. YAML
- C. XML
- D. XHTML

Answer: B

Explanation:
Comprehensive and Detailed Explanation
Cisco Container Platform (CCP), built on Kubernetes orchestration, uses YAML files for:
* Cluster configuration
* Pod definitions
* Network settings
* Storage mappings
YAML is the industry-standard declarative syntax for Kubernetes and container orchestration platforms.
HTML, XHTML, and XML are not used for CCP configuration.

NEW QUESTION # 62
What are the key advantages of using cloud agents for network monitoring? (Select two)

- A. Decreasing network security
- B. Reducing physical infrastructure costs
- C. Providing detailed and contextual insights into cloud infrastructure performance
- D. Enhancing scalability of monitoring solutions

Answer: C,D

NEW QUESTION # 63
What is used to protect against an API logic flaw?

- A. SSH encryption at rest
- B. Data encryption at rest
- C. Data encryption in transit
- D. Remediation of vulnerabilities

Answer: D

Explanation:
Comprehensive and Detailed Explanation
An API logic flaw is a weakness in the API's business logic- not in encryption or transport security. It occurs when:
* API functions are misused
* Business rules are bypassed
* Security validation is missing

* Workflow logic is incorrect
These issues cannot be solved through encryption (at rest or in transit). They require:
#Vulnerability remediation
#Fixing API code logic
#Updating API validation, flow control, and authentication logic
Thus the correct answer isC. Remediation of vulnerabilities.

NEW QUESTION # 64

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