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The Designing and Implementing Cisco Service Provider Cloud Network Infrastructure 300-540 pdf questions and practice tests are designed and verified by a qualified team of 300-540 exam trainers. They strive hard and make sure the top standard and relevancy of Designing and Implementing Cisco Service Provider Cloud Network Infrastructure 300-540 Exam Questions. So rest assured that with the 300-540 real questions you will get everything that you need to prepare and pass the challenging Designing and Implementing Cisco Service Provider Cloud Network Infrastructure 300-540 exam with good scores.

Cisco 300-540 Exam Syllabus Topics:

Topic	Details
Topic 1	• 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	• 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	• 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 4	• 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	• 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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VCEPrep also has a Cisco Practice Test engine that can be used to simulate the genuine Designing and Implementing Cisco Service Provider Cloud Network Infrastructure (300-540) exam. This online practice test engine allows you to answer questions in a simulated environment, giving you a better understanding of the exam's structure and format. With the help of this tool, you may better prepare for the Designing and Implementing Cisco Service Provider Cloud Network Infrastructure (300-540) test.

Cisco Designing and Implementing Cisco Service Provider Cloud Network Infrastructure Sample Questions (Q50-Q55):

NEW QUESTION # 50
What role does NSO play in network virtualization?

- A. Reduces network flexibility and scalability
- B. Acts as a physical network switch
- C. Provides centralized management and automation of network services
- D. Decreases automation and orchestration capabilities

Answer: C

NEW QUESTION # 51
ACI's approach to data center management is unique because it:

- A. Focuses on physical infrastructure over software
- B. Is application-centric, not just network-centric
- C. Ignores the need for automation
- D. Requires manual configuration for all network devices

Answer: B

NEW QUESTION # 52

What is a benefit of using machine learning in Cisco AFM?

- A. It enables AFM to consume fewer resources.
- B. It enables AFM to function without an Internet connection.
- C. It enables AFM to perform hardware upgrades on network devices.
- D. It enables AFM to predict potential network faults ahead of time.

Answer: D

Explanation:
Comprehensive and Detailed Explanation From Cisco SP Cloud & AFM Knowledge Cisco AFM (Active Fault Manager), part of Cisco Crosswork, uses machine learning algorithms to:
* Analyze large volumes of telemetry
* Detect anomalies
* Identify abnormal behavior patterns
* Predict potential service-impacting faults before they occur
This predictive analytics capability is one of AFM's core advantages, enabling proactive fault avoidance rather than reactive troubleshooting.
The other options do not represent AFM functionality:
* AFM does not require offline operation(B).
* It does not upgrade hardware(C).
* ML does not reduce resource usage(D); it increases analytical capability.
Thus,Ais correct.

NEW QUESTION # 53

IaaS, PaaS, SaaS, and FaaS are all types of cloud services.
Which one provides the most managed service?

- A. SaaS
- B. IaaS
- C. FaaS
- D. PaaS

Answer: A

NEW QUESTION # 54

The primary use of SR-PM in cloud infrastructure is for:

- A. Segment routing path monitoring
- B. Reducing security protocols
- C. Performance management in software development
- D. Managing storage replication

Answer: A

NEW QUESTION # 55

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