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If you want to ace the Designing and Implementing Cisco Service Provider Cloud Network Infrastructure (300-540) certification exam and make a successful career in the Cisco sector, Pass4suresVCE is the right choice for you. Their Designing and Implementing Cisco Service Provider Cloud Network Infrastructure (300-540) practice tests and preparation materials are designed to provide you with the best possible chance of passing the Cisco 300-540 Exam with flying colors. So, don't wait any longer, start your preparation now with Pass4suresVCE!

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	• 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	• 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 4	• 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	• 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.

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Cisco Designing and Implementing Cisco Service Provider Cloud Network Infrastructure Sample Questions (Q174-Q179):

NEW QUESTION # 174
What does NFV stand for?

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

Answer: A

NEW QUESTION # 175
What does Cisco Always-On Cloud DDoS use to protect against DDoS attacks?

- A. Load balancing
- B. Scrubbing centers
- C. Botnet zombies
- D. Traffic mirroring

Answer: B

Explanation:
Comprehensive and Detailed Explanation From Cisco SP Security Knowledge Cisco Always-On Cloud DDoS Protection is a cloud-based, carrier-grade security service used by service providers to protect customers from volumetric and application-layer DDoS attacks.
Its core protection mechanism is the use ofglobal scrubbing centers, which:
* Receive diverted attack traffic
* Scrub (clean) malicious packets
* Forward clean traffic back to the customer
* Use behavioral analysis and real-time detection
* Protect against volumetric, TCP state-exhaustion, and application-layer attacks Why other answers are incorrect:
* Load balancing (A)doesnotmitigate DDoS attacks; it distributes traffic across servers.
* Botnet zombies (B)aresourcesof DDoS attacks, not protection.
* Traffic mirroring (C)is used for analysis and monitoring, not active DDoS protection.

NEW QUESTION # 176
Automation in deploying NFV can reduce:

- A. The need for manual configuration
- B. Network reliability
- C. Software-defined networking capabilities
- D. The speed of service delivery

Answer: A

NEW QUESTION # 177
Multi-homing is beneficial for:

- A. Creating a single point of failure
- B. Enhancing redundancy and resilience
- C. Simplifying network architecture
- D. Increasing dependency on a single ISP

Answer: B

NEW QUESTION # 178
Evaluating WAN infrastructure connectivity, one should consider:

- A. The availability and performance requirements of the application
- B. The scalability and flexibility of MPLS/segment routing
- C. The exclusive use of Direct Connect for all scenarios
- D. The cost and complexity of IPsec VPNs only

Answer: A

NEW QUESTION # 179
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