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Passing the 300-540 exam requires the ability to manage time effectively. In addition to the Designing and Implementing Cisco Service Provider Cloud Network Infrastructure (300-540) exam study materials, practice is essential to prepare for and pass the Cisco 300-540 exam on the first try. It is critical to do self-assessment and learn time management skills. Because the 300-540 test has a restricted time constraint, time management must be exercised to get success. Only with enough practice one can answer real Cisco 300-540 exam questions in a given amount of time.

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	• 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 3	• 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 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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New 300-540 Exam Discount, 300-540 Top Questions

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Cisco Designing and Implementing Cisco Service Provider Cloud Network Infrastructure Sample Questions (Q26-Q31):

NEW QUESTION # 26
The use of pseudowires in DCI solutions is primarily to:

- A. Simulate a wire-like connection over a packet-switched network
- B. Create a physical connection between two points
- C. Reduce the overall security of the data being transmitted
- D. Provide layer 3 connectivity over a layer 2 network

Answer: A

NEW QUESTION # 27
Refer to the exhibit. The indicated configuration was applied to a Cisco switch Switch_A located in the Los Angeles DC data center; however, Switch_A fails to establish OTV connectivity to Cisco switch Switch_C.
Which overlay interface command must be run on Switch_A to resolve the issue?

- A. otv join-interface vlan 101-111

- B. otv isis authentication-check
- C. otv isis authentication-type md5
- D. otv extend-vlan 101-111

Answer: D

Explanation:
Overlay Transport Virtualization (OTV) allows Layer 2 extension across Layer 3 infrastructures. To operate, OTV requires three fundamental components on the overlay interface:
Join interface - used to reach the OTV control plane over L3 (already configured: otv join-interface g1/0).
Control-group multicast address - for control-plane advertisement (already configured: otv control-group 224.1.1.1).
Extended VLAN list - specifies which VLANs will be transported through the OTV overlay.
The configuration shown in the exhibit includes the join-interface, control-group, and data-group, but it does NOT specify which VLANs should be extended. Without the otv extend-vlan command, OTV will form the overlay interface but will not forward any Layer 2 information, preventing adjacency and MAC distribution between sites.
In OTV, the command required to activate VLANs for transport is:
otv extend-vlan <vlan-range>
This enables the VLANs (such as 101-111) to be carried across the OTV overlay, completing the configuration and establishing connectivity.
Why the Other Options Are Incorrect
B). otv isis authentication-type md5
This is optional and only required if ISIS authentication is enabled on both edges. It does not resolve the absence of VLAN extension.
C). otv isis authentication-check
This command enforces authentication verification but does not fix connectivity when VLANs are not extended.
D). otv join-interface vlan 101-111
This is not a valid OTV command. The join-interface must be a routed interface, not a VLAN list.

NEW QUESTION # 28
Control plane high availability within a single VIM is crucial for maintaining _____.

- A. scalability
- B. performance
- C. stability
- D. security

Answer: C

NEW QUESTION # 29
Logging with syslog is important for:

- A. Enhancing user experience
- B. Direct packet routing
- C. Collecting and analyzing system events
- D. Network performance tuning

Answer: C

NEW QUESTION # 30
What is the main advantage of using container orchestration in application deployment?

- A. Increased application latency
- B. Manual scaling of applications
- C. Reduced security
- D. Automated management of containers

Answer: D

NEW QUESTION # 31

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