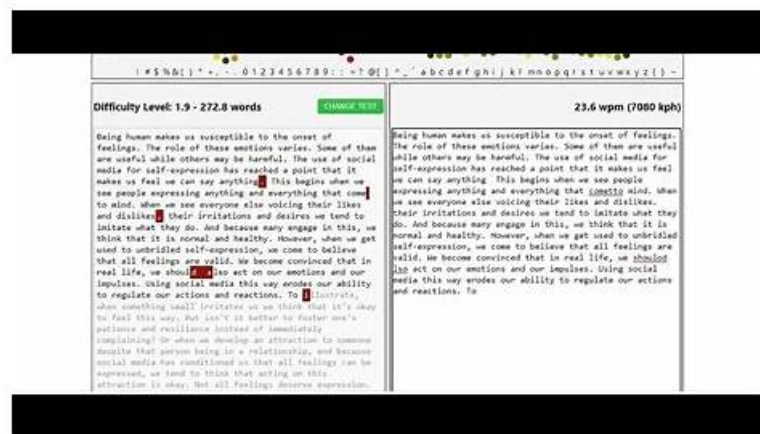


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Cisco 300-540 Exam Syllabus Topics:

Topic	Details
Topic 1	<ul style="list-style-type: none">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	<ul style="list-style-type: none">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	<ul style="list-style-type: none">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	<ul style="list-style-type: none"> • 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 5	<ul style="list-style-type: none"> • 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 (Q49-Q54):

NEW QUESTION # 49

An engineer must design a pay-as-you-go solution for their partners. The solution must allow for rapid deployments, be flexible, and scale resources up or down in a hybrid workplace. What must be used?

- A. Cisco+ Hybrid Cloud for Service Provider Networking
- B. Cisco+ Hybrid Cloud for Virtualization
- C. Cisco+ Hybrid Cloud for Bare Metal Compute
- **D. Cisco+ Hybrid Cloud for Virtual Desktop Infrastructure**

Answer: D

Explanation:

Comprehensive and Detailed Explanation From Exact Extract from my knowledge of Designing and Implementing Cisco Service Provider Cloud Network Infrastructure Outlines without Any External URL or Links:

Cisco+ Hybrid Cloud is Cisco's as-a-service consumption model that offers pay-as-you-go infrastructure. For a hybrid workplace, the focus is on giving users secure desktop environments from anywhere, with the ability to rapidly deploy and scale up or down based on the number of users or partners.

Cisco+ Hybrid Cloud for Virtual Desktop Infrastructure (VDI) specifically delivers desktop and app workspaces as an on-demand service. It allows partners to consume desktops elastically, paying for capacity as needed and scaling the underlying compute, storage, and networking without rebuilding the environment.

* Bare Metal Compute and Virtualization offers flexible infrastructure but are aimed at app/workload hosting rather than user desktop workspaces.

* Service Provider Networking addresses network services, not end-user hybrid workplace desktops.

Therefore, for a pay-as-you-go, rapidly deployable, elastic solution in a hybrid workplace, Cisco+ Hybrid Cloud for Virtual Desktop Infrastructure is the correct choice.

NEW QUESTION # 50

An engineer attempts to kill a NETCONF session. The session ID is equal to the current session. What is the effect of this action?

- A. The configuration is saved, and the current user is logged out.
- **B. An invalid-value error is returned, and the current user is not logged out.**
- C. The session is terminated, and all the connected users are logged out.
- D. The configuration is removed, and the current user is logged out.

Answer: B

Explanation:

NETCONF rules state:

- * A user cannot terminate their own active session.
- * Attempting to kill the same session returns invalid-value error.
- * The session continues running normally.

Thus:

- * No logout
- * No termination
- * No configuration impact

Therefore, A is correct.

NEW QUESTION # 51

What is the purpose of VNF data plane redundancy?

- A. To simplify network management
- B. To decrease network performance
- C. To increase the cost of infrastructure
- **D. To ensure data plane resiliency through placement and network resiliency**

Answer: D

NEW QUESTION # 52

An engineer must enable the highest level of logging when troubleshooting Cisco NFVIS. Which command must be run?

- A. system set-log logtype configuration level critical
- B. system set-log logtype configuration level warning
- C. system set-log logtype configuration level error
- **D. system set-log logtype operational level debug**

Answer: D

Explanation:

Comprehensive and Detailed Explanation

Cisco NFVIS logging levels (from lowest to highest):

- * critical
- * error
- * warning
- * info
- * debug#highest verbosity

To capture maximum diagnostic detail, engineers must enable debug logging on the operational log type, which records system activity and runtime behavior.

Thus the correct command is:

system set-log logtype operational level debug

This provides the deepest troubleshooting visibility.

NEW QUESTION # 53

What is the main advantage of using container orchestration in application deployment?

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

Answer: A

NEW QUESTION # 54

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