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Cisco Cloud Fundamentals (210-451)

Exam Description: It is a 90 minutes consiste of 55 to 65 questions assessment that is associated with CCNA Cloud. This exam Cisco Cloud Fundamentals (CLDFND) verify candidate's knowledge about Cisco Cloud solutions and fundamentals of Cloud Characteristics and Data Center (Fundamentals) like basic understanding of UC, UF, Server Virtualisation, storage. A candidate is also tested on network Services like Hypervisors and Operating systems like windows and linux , remote connectivity for remote/mobile users by providing VPN solutions for enhanced security , cloud design , configurations and supports procedures to satisfy corporate needs. The following topics are general guidelines for the content likely to be included on the exam. However, other related topics may also appear on any specific delivery of the exam. In order to better reflect the contents of the exam and for clarity purposes, the guidelines below may change at any time without notice.



14% 1.0 Cloud Characteristics and Models

16% 2.0 Cloud Deployment

24% 3.0 Basic Knowledge of Cloud Compute

22% 4.0 Basic Knowledge of Cloud Networking

24% 5.0 Basic Knowledge of Cloud Storage

1.0 Cloud Characteristics and Models

1.1 Describe common cloud characteristics

- 1.1.a On-demand self service
- 1.1.b Elasticity
- 1.1.c Resource pooling
- 1.1.d Metered service
- 1.1.e Ubiquitous network access (smartphone, tablet, mobility)
- 1.1.f Multi-tenancy
- 1.2 Describe Cloud Service Models
 - 1.2.a Infrastructure as a Service (IaaS)
 - 1.2.b Software as a Service (SaaS)
 - 1.2.c Platform as a Service (PaaS)

2.0 Cloud Deployment

- 2.1 Describe cloud deployment models
 - 2.1.a Public
 - 2.1.b Private
 - 2.1.c Community
 - 2.1.d Hybrid
- 2.2 Describe the Components of the Cisco Intercloud Solution 2.2.a Describe the benefits of Cisco Intercloud







3.0 Basic Knowledge of Cloud Compute

- 3.1 Identify key features of Cisco UCS
 - 3.1.a Cisco UCS Manager
 - 3.1.b Cisco UCS Central
 - 3.1.c B-Series
 - 3.1.d C-Series
 - 3.1.e Server identity (profiles, templates, pools)
- 3.2 Describe Server Virtualization
 - 3.2.a Basic knowledge of different OS and hypervisors

4.0 Basic Knowledge of Cloud Networking

- 4.1 Describe network architectures for the data center
 - 4.1.a Cisco Unified Fabric
 - 4.1.a.1 Describe the Cisco Nexus product family
 - 4.1.a.2 Describe device virtualization
 - 4.1.b SDN
 - 4.1.b.1 Separation of control and data
 - 4.1.b.2 Programmability
 - 4.1.b.3 Basic understanding Open Daylight
 - 4.1.c ACI
 - 4.1.c.1 Describe how ACI solves the problem not addressed by SDN
 - 4.1.c.2 Describe benefits of leaf/spine architecture
 - 4.1.c.3 Describe the role of APIC Controller
- 4.2 Describe Infrastructure Virtualization
 - 4.2.a Difference between vSwitch and DVS
 - 4.2.b Cisco Nexus 1000V components
 - 4.2.b.1 VSM
 - 4.2.b.2 VEM
 - 4.2.b.3 VSM appliance
 - 4.2.c Difference between VLAN and VXLAN
 - 4.2.d Virtual networking services
 - 4.2.e Define Virtual Application Containers
 - 4.2.e.1 Three-tier application container
 - 4.2.e.2 Custom container



5.0 Basic Knowledge of Cloud Storage

- 5.1 Describe storage provisioning concepts
 - 5.1.a Thick
 - 5.1.b Thin
 - 5.1.c RAID
 - 5.1.d Disk pools
- 5.2 Describe the difference between all the storage access technologies5.2.a Difference between SAN and NAS; block and file5.2.b Block technologies5.2.c File technologies
- 5.3 Describe basic SAN storage coconcepts
 5.3.a Initiator, target, zoning
 5.3.b VSAN
 5.3.c LUN
- 5.4 Describe basic NAS storage concepts5.4.a Shares / mount points5.4.b Permissions
- 5.5 Describe the various Cisco storage network devices
 5.5.a Cisco MDS family
 5.5.b Cisco Nexus family
 5.5.c UCS Invicta (Whiptail)
- 5.6 Describe various integrated infrastructures
 5.6.a FlexPod (NetApp)
 5.6.b VBlock (VCE)
 5.6.c VSPEX (EMC)
 5.6.d OpenBlock (Red Hat)

