Designing the Cisco Cloud - On Demand (CLDDES 1.1)

Modality: On Demand Duration: 40 Hours

CLC: 15 Units

The courses of e-learning target around a range of Cisco innovations to set you up for Cisco certification tests, and to pick up Cisco product information. The e-learning contributions are made to be engaging and interactive for students who like self-study.

Some Self-paced courses of Cisco give access to hands-on virtual lab works out, allowing you the chance to practice troubleshooting and configuration on real Cisco platforms.

Course Outline:

Module 1: Translate Requirements into Automation Designs

- Cloud overview
 - Computing
 - Characteristics
 - Models
 - Deployment models
 - Benefits
 - Adoption
- Key business requirements for cloud
- Automation
 - Cloud APIs
 - laaS
 - PaaS
 - SaaS
 - Design
- · Cisco cloud portfolios overview
 - ONE Enterprise cloud suite
 - PSC
 - UCS director
 - Virtual application cloud segmentation (VACS)
 - Intercloud fabric
 - PNSC
- Automation tasks
- PSC stack designer with PaaS

Module 2: Design a Private Cloud Infrastructure

- Pod designs
 - vBlock
 - FlexPod
 - VSPEX
 - Scalability
 - UCS director
- Cloud design storage considerations
- Storage connectivity types
- Thin vs. thick provisioning
- Storage provisioning methods
- Cloud network service automation tools
 - APIC (ACI)
 - Nexus data broker
 - Metapod

Module 3: Design a Hybrid Cloud Infrastructure

- Public cloud architectures
 - Amazon Web Services
 - Microsoft Azure
 - IBM SoftLayer
 - Cisco Intercloud Ecosystem
- Cisco Intercloud Fabric director
- Cisco Prime Service catalog
- Site-to-site and remote access VPN
- MPLS technology

Module 4: Secure the Cloud Infrastructure

- Administrative access
- RBAC
- Centralized authentication
- Secure multitenant capabilities
- Infrastructure security components

Module 5: Virtualization and Virtual Network Services for Private and Hybrid Clouds

- Hypervisor ecosystem
 - VM-mobility
 - Disaster recovery
 - · High availability vs. fault tolerance
 - Memory ballooning
- Workload dependencies
- VM migration
- VM format conversion
- VM lifecycle management

Labs:

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- Creating a UCS Director Workflow for Baremetal Provisioning
- Design and Create Cisco UCS Director Catalog Entries for Discovered VM Templates
- Design Prime Service Catalog Storefront for UCS Director
- Creating an Application Template in the Cisco Stack Designer
- Provision VACS Container
- Choosing a Hybrid Cloud Solution
- RBAC and LDAP Integration in Cisco UCS Director
- Plan for ICF Cloud Requirements and Deployment
- Design Hybrid Cloud Connectivity and Security
- Design for VM Lifecycle and Cisco ICFD Integration in the Hybrid Cloud