CLDAUT: Automating the Cisco Enterprise Cloud

Course Content

Course Description:

Automating the Cisco Enterprise Cloud (CLDAUT) is a new 5-day ILT course designed to help students prepare for the CCNP Cloud certification, a professional level certification specializing in Cloud technologies. This course extensively covering the process of automating and managing private and hybrid clouds using the processes, applications and products of the Cisco ONE Enterprise Cloud Suite.

At Course Completion:

Upon course completion, you will be able to:

- Describe Cisco's architectural components of the data center to support the infrastructure of a private cloud IaaS
- Describe how to manage the private IaaS service offerings with Cisco PSC
- Automate network services in a private IaaS cloud
- Describe the lifecycle management and application provisioning in the cloud
- Describe how to use the ICF to manage the workloads in the hybrid cloud

Target Student:

The primary target audiences for the course are:

- Cloud Administrators - responsible for managing and automating the cloud services, which are based on the Cisco cloud structure
- Cloud Architects - responsible for creating designs for cloud deployments, which are based on Cisco cloud solutions
- Secondary target audiences are:
- Cloud Technical Administrator – implementing operation and support of Cisco Cloud Products and Solutions

Deliver Method:

This course is delivered through a mix of instructor-led training (ILT) and hands-on labs.

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Course ID #: 1575-987-ZZ-W

Hours: 35

Topics:

Module 1: Manage Private Cloud Infrastructure for IaaS
- Lesson 1: Describing Cloud Automation and Management
- Lesson 2: Describing Cisco ONE Enterprise Cloud Suite and Cloud Management
- Lesson 3: Managing Devices for a Cloud Tenant Using Cisco UCS Director
- Lesson 4: Managing Infrastructure Policies for IaaS Using Cisco UCS Director
- Lesson 5: Managing VDCs in Cisco UCS Director
- Lesson 6: Managing Workflows in an IaaS Tenant Cloud
- Lesson 7: Managing Self-Service Provisioning in Cisco UCS Director
- Lesson 8: Module Summary
- Lesson 9: Module Self-Check

Module 2: Manage Private IaaS Catalog with Cisco PSC
- Lesson 1: Publishing Cisco UCS Director Services in Cisco PSC
- Lesson 2: Ordering IaaS Services as an End User Using Cisco PSC
- Lesson 3: Module Summary
- Lesson 4: Module Self-Check

Module 3: Cisco VACS for Provisioning Private IaaS with Network Automation
- Lesson 1: Identifying Cisco VACS
- Lesson 2: Defining the Policies for Containers
- Lesson 3: Creating a Cisco VACS 3-Tier Internal Template Automation

- Lesson 4: Creating a Cisco VACS 3-Tier External Template Automation
- Lesson 5: Publishing Discovered Cisco VACS Services in Cisco PSC
- Lesson 6: Module Summary
- Lesson 7: Module Self-Check

Module 4: Application Provisioning and Life-Cycle Management
- Lesson 1: Ordering a Virtual Server Using Cisco PSC
- Lesson 2: Ordering a Physical Server Using Cisco PSC
- Lesson 3: Ordering a Multi-Tier Application Container Using Cisco PSC
- Lesson 4: Managing Application Containers
- Lesson 5: Manage Life Cycles of Cloud Resources
- Lesson 6: Managing Snapshots
- Lesson 7: Module Summary
- Lesson 8: Module Self-Check

Module 5: Manage Intercloud Fabric Connectivity for IaaS in Hybrid Cloud
- Lesson 1: Configuring Intercloud Fabric Connectivity
- Lesson 2: Managing VM Templates to Deploy New Workloads
- Lesson 3: Managing Intercloud Fabric Infrastructure
- Lesson 4: Managing Routing Policies for Secure VM Communication in the Hybrid Cloud
- Lesson 5: Module Summary
- Lesson 6: Module Self-Check