

CLDAUT- Automating the Cisco Enterprise Cloud

Duration: On-Demand

Overview:

Automating the Cisco Enterprise Cloud (CLDAUT) v1.1 is a Professional-level self-study technical course designed to help students prepare for the CCNP Cloud certification, and for Professional-level cloud roles. It covers the skills, technologies, and best practices needed to automate and manage private and hybrid cloud infrastructure for infrastructure as a service (IaaS), including devices, policies, virtual device contexts (VDCs), IaaS tenants, workflows, IaaS catalog, containers, and application provisioning. You'll gain hands-on experience using various Cisco® cloud and data center infrastructure technologies such as Cisco ONE™ Enterprise Cloud Suite, Cisco UCS® Director, Cisco Prime® Service Catalog, and Cisco Virtual Application Container Services (VACS).

Audience:

- Cloud and data center administrators
- Cloud Architects and system engineers
- Cloud, data center, and network engineers
- CISCO integrators and partners

Module 1: Manage Private Cloud Infrastructure for IaaS

Lessons:

- Describing Cloud Automation and Management
- Describing CISCO ONE Enterprise Cloud Suite and Cloud Management
- Managing Devices for a Cloud Tenant Using CISCO UCS Director
- Managing Infrastructure Policies for IaaS using CISCO UCS Director
- Managing VDCs in CISCO UCS Director
- Managing Workflows in an IaaS Tenant Cloud
- Managing Self-Service Provisioning in CISCO UCS Director

Module 2: Manage Private IaaS with Cisco Prime Service Catalog

Lessons:

- Publishing CISCO UCS Director Services in CISCO prime Service Catalog
- Ordering IaaS Services as an End User using CISCO Prime Service Catalog

Module 3: Cisco VACS for Provisioning Private IaaS with Network Automation

Lessons:

- Identifying CISCO VACS
- Defining the Policies for Containers
- Creating a CISCO VACS 3-Tier Internal Template Automation
- Creating a CISCO VACS 3-Tier External Template Automation
- Publishing Discovered CISCO VACS Services in CISCO Prime Service Catalog

Module 4: Application Provisioning and Lifecycle Management

Lessons:

- Ordering a Virtual Server using CISCO Prime Service Catalog
- Ordering a Physical Server Using Cisco Prime Service Catalog
- Ordering a Multitier Application Container using CISCO Prime Service Catalog
- Managing Application Containers
- Manage Lifecycles of Cloud Resources
- Managing Snapshots

Pre-requisites:

To fully benefit from this course, you should first complete the following course or obtain the equivalent level of knowledge:

- Understanding CISCO Cloud Fundamentals (CLDFND) course
- Introducing CISCO Cloud Administration (CLDADM) course

Course Completion:

After completing this course, students will be able to:

- Describe key architectural elements to support private cloud IaaS using Cisco Data center components
- Describe how to manage a private IaaS service offering with Cisco Prime Service Catalog
- Automate network services in a private IaaS cloud
- Describe lifecycle management and application provisioning in the cloud
- Describe how to manage workloads in a hybrid cloud

Module 5: Manage Cisco Intercloud Fabric® Connectivity for IaaS in Hybrid Cloud

Lessons:

- Configuring CISCO Intercloud Fabric Connectivity
- Managing VM Templates to Deploy New Workloads
- Managing CISCO Intercloud Fabric Infrastructure
- Managing Routing Policies for Secure VM Communication in the Hybrid Cloud