Building the Cisco Cloud with Application Centric Infrastructure (CLDACI)

Duration: 5 days

Prerequisites

The knowledge and skills that a learner should have before attending this course are as follows:

1. Good understanding of networking protocols
2. Recommend CCNP Certification or equivalent knowledge
3. Good understanding of the VMware environment
4. Recommend attendance of the **VMware vSphere 6: Install, Configure, Manage** (VICM) class or equivalent knowledge

Course Objectives

Building the Cisco Cloud with Application Centric Infrastructure (CLDACI) 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 covers the process of implementing public, private, and hybrid cloud based on Cisco ACI.

Follow On Courses

1. **Automating the Cisco Enterprise Cloud** (CLDAUT)
2. **Designing the Cisco Cloud** (CLDDES)
3. **Implementing and Troubleshooting the Cisco Cloud Infrastructure** (CLDINF)

Course Content

Module 1: Implement Cisco ACI Fundamentals
Module 2: Implement Cisco ACI Enhanced Features
Module 3: Configure Cisco ACI External Connections
Module 4: Automate and Design Cisco ACI Deployment
Hardware Lab 1: Implement Cisco ACI Fabric Connectivity for Virtual Machines
Hardware Lab 2: Implement Application Policies
Hardware Lab 3: Monitor Traffic with Atomic Counters
Hardware Lab 4: Deploy VPC Connections to Hypervisors
Hardware Lab 5: Deploy Cisco AVS and Micro segmentation

Hardware Lab 6: Add Bare Metal Hosts and Implement Inter-Tenant Connectivity
Hardware Lab 7: Integrate Cisco ASA Firewall in Cisco ACI Fabric
Hardware Lab 8: Enable Connectivity to External Layer 3 Networks
Hardware Lab 9: Enable Connectivity to External Layer 2 Networks
Hardware Lab 10: Provision Cisco ACI Using Cisco UCS Director
Hardware Lab 11: Program Cisco APIC Using Python and Arya (Optional)