



# CCNA – Cloud (Boot Camp)

## Pre-Requisites:

- CCNET Certification – or – ICND1 V3.0 – Interconnecting Cisco Networking Devices (Part 1)
- Basic knowledge of network fundamentals (routing and switching)
- Basic knowledge of compute fundamentals (server virtualization)
- Basic knowledge of storage fundamentals (fibre channel)

## Course Content:

This course provides you with the necessary knowledge and skills to perform foundational tasks related to cloud computing, and helps prepare you for the CCNA Cloud certification, an associate-level certification specializing in cloud technologies. You'll learn the following in this course:

- Introduction to Basic Cloud Computing
- Describing Cisco Data Center Network Architecture
- Explore virtual networking with Nexus 1000v
- Defining Software Defined Network (SDN)
- Describe Cisco Application Centric Infrastructure (ACI) Solution
- Explore storage options with Fibre Channel and Ethernet
- Explore Cisco UCS C-Series family
- Explore Cisco UCS B-Series family
- Explore server virtualization
- Introduce UCS Director
- Administrating Cisco UCS Director

- VM operations Cisco UCS Director
- Describe Cisco Prime Service Catalog (PSC)
- Deploying UCS templates via Cisco UCS Director
- Describe Cisco UCS Director's Appliance Containers
- Understanding monitoring in Cisco UCS Director
- Reporting in Cisco UCS Director
- Budgeting in Cisco UCS Director
- Describing Cisco UCS Performance Manager

## Course Outline:

- Intro to Cloud Computing
  - Introduction Cloud Computing Basic Concepts
  - Describing Cloud Service Models
  - Comparing Cloud Deployment Models
- Cloud Network
  - Describing Cisco Data Center Network Architecture
  - Exploring Virtual Networking
  - Identifying Cisco Nexus 1000v Switches
  - Defining and Analyzing Software Defined Network Fundamentals
  - Describing the Cisco ACI Solution
- Cloud Storage
  - Comparing Storage Options
  - Describing Fibre Channel Storage Network Concepts
- Cloud Compute
  - Describing Cisco UCS C-Series Product Family
  - Identifying Cisco UCS B-Series Family
  - Explaining Cisco UCS Blade Provisioning
  - Defining Server Virtualization
- Cisco Cloud Administration
  - Understanding Cisco UCS Director Overview
  - Administering the Portal in Cisco UCS Director
  - Describing VM Operations in the UCS Director
  - Describing Cisco PSC Services
- Cisco Cloud Provisioning
  - Deploying Cisco UCS Templates with Cisco UCS Director
  - Explaining Cisco UCS Director Application Containers
  - Describing Basics of Cisco Virtual Application Container Services
- Cloud Systems Management and Monitoring
  - Understanding System Monitoring in Cisco UCS Director
  - Monitoring Dashboards in Cisco UCS Director
  - Reporting in Cisco UCS Director (CloudSense)
  - Creating Budget and Resource Limits in Cisco UCS Director
  - Describing Cisco UCS Performance Manager
- Labs:
  - (CLDFND) Lab 1: Validate VSAN and Zoning
  - (CLDFND) Lab 2: Validate FLOGI and FCNS



- (CLDFND) Lab 3: Deploy VMware ESXi Server on Cisco UCS Blade
- (CLDADM) Lab 1: Explore Cisco UCS Director Portal, Register Virtual and Physical Components
- (CLDADM) Lab 2: Explore Cisco UCS Director Portal Administrative Task
- (CLDADM) Lab 3: Explore Cisco UCS Director VM Operation Tasks using Predefined Workflow.
- (CLDADM) Lab 4: Explore Cisco PSC
- (CLDADM) Lab 5: Explore VM, Cisco UCS, and Server Templates in Cisco UCS Director
- (CLDADM) Lab 6: Explore Application Container Tasks Defining Two-Tier Application Container
- (CLDADM) Lab 7: Explore Cisco UCS Director Monitoring Capabilities
- (CLDADM) Lab 8: Explore Cisco UCS Director Built-in Reports
- (CLDADM) Lab 9: Explore Monitoring Dashboards in Cisco UCS Director and Generate Top-N Report
- (CLDADM) Lab 10: Explore Charge-Back Reporting Capabilities of Cisco UCS Director