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## Implementing and Troubleshooting the Cisco Cloud Infrastructure

DURATION: 5 DAYS

COURSE CODE: CLDINF

FORMAT: LIVE/VIRTUAL

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### COURSE DESCRIPTION

The Implementing and Troubleshooting the Cisco Cloud Infrastructure (CLDINF) v1.1 course helps you prepare for the Cisco CCNP® Cloud certification and for professional-level cloud operational roles. In this course, you'll learn the professional-level skills, technologies, and best practices needed to deploy and troubleshoot physical and virtual cloud infrastructure components, including computing infrastructure, cloud storage infrastructure and storage access, and cloud network infrastructure and connectivity. You'll gain hands-on experience implementing various Cisco® cloud and data center infrastructure technologies such as Cisco UCS®, Cisco UCS Director, Cisco MDS switches, Cisco Nexus® switches, Cisco Cloud Services Router, ESXi hosts, VMs, vMotion, virtual extensible LANS (VXLANS), and more.

IT practitioners who have Cisco CCNP Cloud training and certification have validated professional-level, hands-on skills in Cisco technologies and industry best practices needed for in-demand job roles.

### WHO SHOULD ATTEND

- Cloud administrators
- Cloud operations engineers
- Support engineers
- Cloud design engineers
- Cloud infrastructure architects
- Virtualization engineers
- Cisco integrators and partners

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### PREREQUISITES

- Cisco CCNA Cloud certification or equivalent knowledge
- Basic knowledge of Cisco data center technologies and equipment
- Basic knowledge of cloud computing and associated technologies
- Basic knowledge of VMware data center concepts

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### LEARNING OBJECTIVES

Describe the major components of the cloud infrastructure

Implement and troubleshoot compute components in the cloud

Implement and troubleshoot storage components in the cloud

Implement and troubleshoot network components in the cloud

Troubleshoot cloud environments that consist of multiple components

## COURSE OUTLINE

### 1. Cloud Infrastructure Overview

- Cloud Physical Infrastructure
- Cloud Virtual Infrastructure and Software Components
- Setting Up Hypervisor

### 2. Cloud Infrastructure Computing Component

- Implementing Computing Infrastructure
- Using Cisco UCS as a Cloud Compute Platform
- Troubleshooting Compute Infrastructure

### 3. Cloud Infrastructure Storage Component

- Implementing Cloud Storage
- Configuring Storage Access on Hosts
- Troubleshooting Cloud Storage Infrastructure

### 4. Cloud Infrastructure Network Component

- Implementing a Physical Network for the Cloud
- Implementing a Virtual Network for the Cloud
- Configuring Network Access on Hosts
- Troubleshooting Cloud Network Infrastructure

### 5. Troubleshooting Multiple Components

- Troubleshooting Cloud Infrastructure

## DISCOVERY LABS

- 1: Quick-Start Cisco UCS Manager and Cisco UCS Director
  - 2: Deploy CentOS Host on a Cisco UCS Rack Server
  - 3: Build a Virtualized Environment
  - 4: Troubleshoot Storage Access
  - 5: Configure Network Server Connectivity
  - 6: Configure Virtual Network Connectivity
- The following labs are available in the instructor-led format of this course
- 7: Troubleshoot Network Connectivity (Optional)
  - 8: Troubleshoot Capstone Lab (Optional)