

Learning Services

Cisco Metacloud Foundation Training



The Cisco[®] Metacloud Foundation Training course, Version 1.0, is an instructor-led, lab-based, hands-on course offered by Cisco Learning Services. It covers how to operate, configure, and manage the Cisco Metacloud offering and how to take advantage of Cisco Cloud Operations and Support service.

Cisco Metacloud offers cloud infrastructure-as-a-service (IaaS) for companies wanting to configure and manage their own private clouds with Cisco 24-hour support service. This course provides experience for both users and administrators on how to create and manage instances (virtual machines), storage volumes, OS images, projects (also called tenants), Neutron Network-as-a-service (NaaS), and instance flavors (size templates). You also learn how to access the OpenStack API services to run command line interface (CLI) commands and create application stacks for faster deployment of instances.

Duration

1 day

Target Audience

This course is for users and administrators of private cloud infrastructures using the Cisco Metacloud solution.

Course Objectives

At completing this course, you should be able to:

- Create and access instances
- Create, attach, and use storage volumes
- Create and apply guest (custom) OS images for instances
- Access the API CLI for the OpenStack services and execute commands
- Create application stacks for faster deployment of instances
- Create and manage resources for new projects and projects, including creating and adding users
- Use OpenStack Private Cloud dashboard metrics for monitoring resources
- Create custom instance flavors (size templates)
- Create Neutron networks

Course Prerequisites

None.

Recommended Prerequisites

Cisco recommends that you have the following prerequisite knowledge and skills:

- Prior knowledge of cloud computing and virtualization software basics
- Ability to perform basic UNIX-like operating software commands

Course Outline

- Module 1: Solution Overview
 - Examining Cloud Computing Basics
 - Exploring the Cisco Metacloud Solution
 - Introducing Metacloud Hardware and Software
- Module 2: Metacloud User Basics
 - Creating and Using Instances
 - Creating and Using Storage Volumes
 - Creating and Using Guest OS Images
- Module 3: Advanced User Features
 - Using API Service CLI Commands
 - Creating and Using Application Stacks
- Module 4: Metacloud Administration
 - Creating and Managing Projects and Users
 - Monitoring Resources with Metrics
 - Creating and Managing Flavors

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- Module 5: Neutron Networking
 - Introducing Neutron
 - What is Neutron?
 - Upstream Neutron Reference Architecture
 - Examining Recommended Deployments
 - Eight Metacloud Networking Use Cases and Labs
 - Case 1: Two Instances, Same Network, Same Tenant via Static IP
 - Case 2: Two instances, Different Network, Same Tenant via Static IP
 - Case 3: Two Instances, Different Tenants via Static IP
 - Case 4: Two Instances Communicating via Floating IPs
 - Case 5: Single Instance Communicating on Multiple Networks
 - Case 6: Create a DMZ for Network Isolation
 - Case 7: Instances Communicating to the Internet
 - Case 8: Instances Receiving Traffic from the Internet

Registration Email

For more information about schedules and registration for this course, contact aeskt_registration@cisco.com.

Website Addresses for More Information

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