

## OpenStack Accelerated Bootcamp with Exam (OS250)

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**Duration:** 5 days

### Course Overview

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The OpenStack Accelerated Bootcamp (OS250) covers the critical skills needed to operate an OpenStack cluster and troubleshoot and install an OpenStack environment. Upon completion of the course, students will have gained an extensive understanding of the objective below and will prepare for the [MCA200 OpenStack certification exam](#).

- Describe the architecture of an OpenStack Cloud Environment
- Define the key features of OpenStack
- Identify suitable use-cases for OpenStack
- Implement and use Image, Identity, and Dashboard services
- Create and manage compute, storage, network, and image resources
- Use Orchestration and Telemetry services
- Create and manage users, roles, projects and access control
- Use graphical and command line clients
- Create and manage roles, permissions, and ACLs
- Manually Installing and Configuring OpenStack from scratch
- Troubleshooting OpenStack Environments
- Preparation for the MCA200 Exam

### Target Audience

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- Systems Administrators
- Deployment Engineers
- Technical IT Professionals

### Course Objectives

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- Chapter 1: Course Introduction
- Chapter 2: OpenStack Overview and Architecture
- Chapter 3: OpenStack Networking deep dive
- Chapter 4: OpenStack Swift Architecture
- Chapter 5: Ceilometer Overview and Architecture
- Chapter 6: Heat Overview and Architecture

- Chapter 7: Installing, configuring, mysql, and message queue
- Chapter 8: Installing, configuring, and verifying Keystone
- Chapter 9: Installing, configuring, and verifying Glance
- Chapter 10: Installing, configuring, and verifying Nova
- Chapter 11: Installing, configuring, and verifying Cinder
- Chapter 12: Installing, configuring, and verifying Neutron
- Chapter 13: Installing, configuring, and verifying Heat
- Chapter 14: OpenStack Troubleshooting
- Four days of accelerated training with the MCA200 certification on the Fifth day.

## Pre-Requisites

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- Strong experience using Linux command line
- Experience editing conf files with vi
- Proficient with Linux, Networking, and Storage