



MIRANTIS

Mirantis - OpenStack Administration Bootcamp (Ussuri)

Code:	OS250
Length:	5 days
URL:	View Online

The OpenStack Administration Bootcamp course is a 5 day class designed to introduce you to OpenStack and its components (day 1) and then provide you with a complete experience with administering and operating the most common OpenStack components to implement Infrastructure as a Service (IaaS) in a private cloud; from image management to instance creation to network plugins and more (days 2-4). At the end of OS250, you have the skills required to pass the COA exam. All Mirantis OpenStack courses are vendor agnostic. Tasks are performed in an OpenStack environment without any vendor add-ons that might change the way OpenStack works. Reference implementations are utilized, such as Logical Volume Manager (LVM) for Block Storage, Open vSwitch (OVS) for L2 networking, or KVM/QEMU for the hypervisor.

Skills Gained

- An introduction to OpenStack, including its architecture, history, the OpenStack Foundation, plus an overview of the most commonly used components with discussion of additional components for containers, bare metal, workflows, monitoring, cloud costing, and more.
- Keystone (Identity service): Authenticating with Keystone, managing tokens, RBAC policies, & the purpose of the Service Catalog
- Glance (Image service): Creating & managing images, options to build an image, the purpose of cloud-init
- Neutron (Network service): Understand what networks OpenStack uses, such as, the management network. Neutron architecture, including plugins, namespaces, layer 2 protocols, layer 3 routing, Neutron security groups, and more.
- Nova (Compute service): Using Nova to deploy virtual machine (VM) instances & control where the instances are deployed. Deploying instances with SSH keys for better security. Understanding the supported hypervisors. Lastly, implementing resource quotas.
- Cinder (Block Storage/Volume service): Understand the use of volumes, snapshots, and backups. You also create and use a boot volume.
- Heat (Orchestration service): Discusses Heat templates, their syntax, and MANY practical day-to-day examples of Heat templates, including examples of installing and configuring software on your instances at boot.
- Octavia (LBaaS): Use the CLI to create & manage a load balancer and load balancer resources

- Ceilometer/Aodh(Telemetry services): Discuss the role & architecture of each component. Review a sample application with load balancing and autoscaling
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Who Can Benefit

- Basic understanding of cloud and virtualization technologies
- Basic hypervisor skills are beneficial, such as KVM or VMware, but not required
- Basic Linux skills
- Basic understanding of OpenStack
- Motivations: Learn the critical skills needed to operate and administer an OpenStack environment
- Roles: System/network administrators, Technical IT Professionals, Deployment engineers, Cloud administrators, & Cloud operations

Prerequisites

- Solid Linux command line skills
- OS100 or equivalent experience is beneficial, including:
- Familiarity with the OpenStack Dashboard UI & command line client
- Although not required, an understanding of hypervisors, virtualization, networking, and storage concepts is beneficial

Course Details

Lab Requirements

- Laptop with WiFi connectivity
- Attendees should have the latest Chrome or Firefox installed, and a free account at strigo.io.

Related Certifications

Authorized training from ExitCertified is created and maintained by the vendor who also creates the certification exams. While it may not be a requirement of certification to attend a vendor-authorized training class, doing so will put you in the best position to successfully complete the related exams. Start training and begin working towards one of the following certifications today.

Open Stack Certification
Certified OpenStack Administrator (COA)
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Schedule (as of 4)

Date	Location	
Mar 14, 2022 – Mar 18, 2022	iMVP	Enroll
May 23, 2022 – May 27, 2022	McLean	Enroll
May 23, 2022 – May 27, 2022	MVP King of Prussia	Enroll
May 23, 2022 – May 27, 2022	MVP Edison	Enroll
May 23, 2022 – May 27, 2022	iMVP	Enroll

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