Mirantis OpenStack Essentials

Duration: 1 Day **Course Code: OS100** **Delivery Method: Company Event**

Overview:

Are you looking at moving your legacy infrastructure and applications to the Cloud? Which Cloud software do you use? Do you need a Public Cloud or a Private Cloud? Perhaps, a Hybrid Cloud.This course will help you answer those questions and more using OpenStack as your Cloud platform.

OpenStack uses a modularized architecture. You can start with a core set of services for IaaS and then expand to include other services as you grow. For example, when you are ready to 'containerize' your legacy applications, you can add OpenStack components to build & manage your container orchestration engine (COE) cluster, as well as the containers and pods. Other components discussed deploy bare metal machines, provide cloud billing & rating, and more.
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.

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Company Events

These events can be delivered exclusively for your company at our locations or yours, specifically for your delegates and your needs. The Company Events can be tailored or standard course deliveries.

Target Audience:

This course is targeted at students with the following:
- Motivations: Gain familiarity with OpenStack and its cloud ecosystem
- Roles: Project Managers, Sales Engineers, Development Managers, Business Stakeholders, and beginning Cloud operations personnel

Objectives:

- **After this course, participants will be able to:**
- Understand cloud computing concepts, including public, private, and hybrid cloud models.
- Understand the OpenStack architecture, ecosystem, and core services.
- Identify and explain the key OpenStack components used to deliver Infrastructure as a Service (IaaS).
- Recognize how OpenStack supports containerization, bare metal provisioning, monitoring, and cloud management capabilities.
- Evaluate OpenStack as a platform for cloud adoption and infrastructure modernization.

Prerequisites:

Basic knowledge of cloud computing, virtualization, Linux, and networking concepts is recommended. No prior OpenStack experience is required.

Testing and Certification

None

Follow-on-Courses:

- OS220 - Mirantis OpenStack Administration & Operations (Caracal)
- OS250 - Mirantis OpenStack Administration Bootcamp

Content:

Course Introduction

Introduction to Cloud

Introduction to OpenStack:

- High-level overview of OpenStack
- History
- OpenStack Foundation
- Most commonly used components
- Other additional components for containers, bare metal, workflows, monitoring, cloud costing, and more

OpenStack Ecosystem ; Marketplace

Additional Information:

Lab Requirements Laptop with WiFi connectivityAttendees should have the latest Chrome or Firefox installed, and a free account at strigo.io.

Further Information:

For More information, or to book your course, please call us on +1 (800) 268 7737

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