



| GUIDE

Training Services

Get the best out of your OpenNebula cloud with our standard and customized training courses. Our interactive hands-on training offerings are live and instructor-led, and designed to take you through all the dimensions of an OpenNebula solution, from installation, configuration and operation, to more complex administration and integration activities, and best practices. We offer regularly scheduled public courses, as well as private courses coordinated and delivered to your liking.

As core contributors to OpenNebula, our trainers are the authority on the cloud management platform. Learn from the experts and be prepared to get your solution running in high gear.

Public and Private Training

The customer will:

- We have a published schedule for virtual and physical classes at OpenNebula Offices in Europe and the USA.
- We also provide private standard or customized courses on request to be given at your facility or as virtual classes.

Standard and Customized Courses

Our Training Services team offers **Beginner**, **Intermediate** and **Advanced** courses that provide you with the skills needed to install, configure, customize, and skillfully operate OpenNebula.

For customers or partners that require training to meet specific needs, we also offer **custom-designed** courses.

Remote Training

Our OpenNebula courses are available remotely over the internet and are given by instructors in an interactive, virtual environment and feature exactly the same contents and hands-on labs as our on-site training. Our remote services provide:

- More **affordability** - eliminating travel expenses
- Improved **flexibility** - allowing partial work days, when necessary
- Enhanced **agility** - accommodating most scheduling requirements

Private Training Pricing

Practitioner course One-day (6 hours)	Administrator course Three-days (12 hours)	Expert course Three-days (12 hours)
€4.000 (\$5,000) for up to 10 students + €400 (\$500) per additional student	€10.000 (\$12,500) for up to 10 students + €1000 (\$1250) per additional student	€12.000 (\$15,000) for up to 10 students + €1200 (\$1500) per additional student

Additional fees apply for customized training. There is a 10% discount on private training for active customers and partners, and for Education, Government and Non-Profit institutions, or organizations working on research projects.

OpenNebula Practitioner

Overview

OpenNebula Practitioner course is a one-day, instructor-led training course. Participants will learn the basics of OpenNebula, key features and operational functionality.

Course Objectives

After the completion of this course an attendee will be able to:

- Describe supported Hosts.
- Describe different Datastore options.
- Describe what is Template and how to instantiate a Virtual Machine
- Perform basic Image administrations.
- Create and configure Virtual Networks
- Create and configure Groups and Users
- Describe different types of Views available in OpenNebula

Location

Private courses are available **on-site** at your facility **or remotely** over the internet. The remote courses are given by the same instructors in an interactive virtual environment and feature exactly the same contents and hands-on labs as the on-site training.

Audience

The course is aimed at customers just starting with OpenNebula and willing to understand the operational basics along with common concepts, yet do not require deeper understanding of the solution's components.

Content Outline

- The basic architecture of OpenNebula
- Host Administration
- Images & Marketplaces
- Virtual Networks
- Virtual Machines & Virtual Machine Templates
- Users, Groups and Permissions

Length

6 hours

Prerequisites

- Basic Linux/UNIX & Networking understanding
- Computer with network connectivity and screen resolution 1920 × 1080
- Ability to connect to OpenNebula WebGUI from your computer
- Ability to connect to OpenNebula using the SSH protocol

Materials

The instructor will rely on a set of PDF documents that will be explained throughout the course. These documents will be made available to the attendees at the very beginning of the course. Attendees need a laptop to connect to their hands-on labs.

OpenNebula Certified Administrator

Overview

OpenNebula Certified Administrator course is a two-days, instructor-led training course. Participants will learn the administration of OpenNebula. An attendee will become familiar with the host lifecycle, clustering, datastores, user & group management and deployment operations.

The course is aimed to prepare the attendee to take the OpenNebula Certified Administrator exam.

Course Objectives

After the completion of this course an attendee will be able to:

- Describe the OpenNebula architecture, requirements and deployment capabilities.
- Configure and Manage Hosts.
- Manage Datastores, Images and create custom Images within the OpenNebula environment.
- Manage and maintain Virtual Networks, Leases, Reservations and Security Groups.
- Perform User & Group management and customization.
- Configure, Manage, Adjust and Create Virtual Machine Templates.
- Describe clustering functionality available in OpenNebula

Location

Private courses are available on-site at your facility or remotely over the internet. The remote courses are given by the same instructors in an interactive virtual environment and feature exactly the same contents and hands-on labs as the on-site training.

Audience

The course is aimed at customers just starting with OpenNebula and willing to understand the operations and administrations of OpenNebula along with common concepts.

Content Outline

- Architecture and Deployment.
- Sunstone Customizations
- Users, Groups and Permissions.
- Hosts Management.
- Storage and Image Management.
- Virtual Network Management.
- Cluster Management.
- Virtual Machine and Virtual template Management.

Length

3 days (4 hours each)

Prerequisites

- Basic Linux/UNIX & Networking understanding
- Computer with network connectivity and screen resolution 1920 × 1080
- Ability to connect to OpenNebula WebGUI from your computer
- Ability to connect to OpenNebula nodes using the SSH protocol

Materials

The instructor will rely on a set of PDF documents that will be explained throughout the course. These documents will be made available to the attendees at the very beginning of the course. Attendees need a laptop to connect to their hands-on labs.

OpenNebula Certified Expert

Overview

OpenNebula Certified Expert course is a three-days, instructor-led training course. Participants will learn the advanced functionalities of OpenNebula such as ACL Rules, VM scheduling, OneDRS, Services as well as the automation and integration functionality.

The course is aimed to prepare the attendee to sit the OpenNebula Certified Expert exam.

Course Objectives

After the completion of this course an attendee will be able to:

- Deploy OpenNebula using OneDeploy.
- Define requirements for OpenNebula High Availability and Federation setups.
- Create and Manage ACL Rules.
- Implement multi-tenancy in OpenNebula.
- Adjust Scheduling and use OneDRS Policies.
- Deploy and Manage OneFlow Services.
- Create custom Images using OneApps Toolchain.
- Automate operations with Hooks and OpenNebula Cloud API.

Location

Private courses are available **on-site** at your facility **or remotely** over the internet. The remote courses are given by the same instructors in an interactive virtual environment and feature exactly the same contents and hands-on labs as the on-site training.

Audience

The course is aimed at customers already having an experience with the OpenNebula and attended the Certified Administrator course.

Content Outline

- Deployment, Federation & HA
- Advanced User Administration
- Scheduler & OneDRS.
- Building a Custom Image with OneApps.
- Managing Services with OneFlow.
- Automation with Hooks.
- OpenNebula Cloud API.

Length

3 days (4 hours each)

Prerequisites

- Basic Linux/UNIX & Networking understanding
- Computer with network connectivity and screen resolution 1920 × 1080
- An ability to connect to OpenNebula WebGUI from your computer
- An ability to connect to OpenNebula nodes using the SSH protocol
- Previously attended OpenNebula 7.2 Certified Administrator course
- In order to take an exam - attendee must already have the OpenNebula Certified Administrator certificate.

Materials

The instructor will rely on a set of PDF documents that will be explained throughout the course. These documents will be made available to the attendees right at the very beginning of the course. Attendees need a laptop to connect to their hands-on labs.



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Reference: Training Services - Rev20260301