Mirantis - Docker Containerization Essentials (On Demand)

Code: CN100-OD
URL: View Online

In this course, you'll learn how to create and manage individual containers using the Docker Engine. We'll cover best practices in container image design and container deployment and auditing, as well as an introduction to single-node container networking and storage. This course is best practices focused, and is designed to enable rapid successful adoption of containerization from first principles.

Benefit from vendor-certified IT training and get access to video content of certified instructor(s), one year of access to the course videos, and up to 240 hours of hands-on cloud-based labs over any 10 day period.

Skills Gained

- Containerization motivations and implementation
- Creating, managing and auditing containers
- Best practices in container image design
- Single-host container networking
- Provisioning external storage

Who Can Benefit

- Motivations: Begin creating high performance containers for new or existing applications
- Roles: General technical audiences & IT professionals

Prerequisites

- Familiarity with the bash shell
- Filesystem navigation and manipulation
- Command line text editors like vim or nano
- Common tooling like curl, wget and ping

Course Details

Lab Requirements:

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

Course Objectives

Containerization motivations and implementation

- Usecases
- Comparison to virtual machines

Creating, managing and auditing containers

- Container implementation from the Linux kernel
- Container lifecycle details
- Core container creation, auditing and management CLI

Best practices in container image design

- Layered filesystem implementation and performance implications
- Creating images with Dockerfiles
- Optimising image builds with multi-stage builds and image design best practices

Single-host container networking

- Docker native networking model
- Software defined networks for containers
- Docker-native single-host service discovery and routing

Provisioning external storage

- Docker volume creation and management
- Best practices and usecases for container-external storage.
