



# MIRANTIS

## Mirantis - CN100: Docker Containerization Essentials

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<b>Code:</b>	CN100
<b>Length:</b>	1 days
<b>URL:</b>	<a href="#">View Online</a>

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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.

### 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](https://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.

## Follow-on Courses

Browse the suggested follow-on courses below and continue your training journey. We offer training in various learning formats, from instructor-led to virtual, so you can choose what works best for you. Get started by selecting a course to learn more.

### Cloud Native - CN110: Docker Swarm Application Essentials

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### Cloud Native - CN110: Docker Swarm Application Essentials (On Demand)

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### Cloud Native - CN120: Kubernetes Application Essentials

[View Details](#)

### Cloud Native - CN120: Kubernetes Application Essentials (On Demand)

[View Details](#)

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# Schedule (as of 3 )

Date	Location	
May 11, 2021 – May 11, 2021	<a href="#">iMVP</a>	<a href="#">Enroll</a>
May 17, 2021 – May 17, 2021	<a href="#">iMVP</a>	<a href="#">Enroll</a>
Jun 15, 2021 – Jun 15, 2021	<a href="#">iMVP</a>	<a href="#">Enroll</a>
Jun 21, 2021 – Jun 21, 2021	<a href="#">iMVP</a>	<a href="#">Enroll</a>
Jun 28, 2021 – Jun 28, 2021	<a href="#">iMVP</a>	<a href="#">Enroll</a>

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