



# **Mirantis - Docker Swarm Application Essentials**

Code: CN110

Length: 1 days

URL: View Online

## **Prerequisite Courses**

## **Cloud Native - Docker Containerization Essentials**

**View Details** 

In this course, youâ $\in$ <sup>™</sup>II learn what a containerized application looks like when orchestrated by Docker Swarm. Weâ $\in$ <sup>™</sup>II cover scheduling workloads across a cluster, networking stateless and stateful applications, provisioning dynamic configuration and persistent storage, and scaling highly available applications in this course intended to set a strong foundation in orchestration for all technical roles.

## **Skills Gained**

- Setting up and configuring a Swarm
- Deploying workloads on Swarm
- · Networking Swarm workloads
- Provisioning dynamic configuration
- Provisioning persistent storage
- Application rollout and upgrade
- · Advanced scheduling control

## **Who Can Benefit**

- Motivations: Develop, operate or manage scalable containerized applications orchestrated by Docker Swarm
- Roles: General technical audiences & IT professionals

### **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

Setting up and configuring a Swarm

- Operational priorities of container orchestration
- Containerized application architecture
- Swarm scheduling workflow & task model
- · Automatic failure mitigation
- Swarm installation & advanced customization

#### Deploying workloads on Swarm

- · Defining workloads as services
- Scaling workloads
- Container scheduling control
- Rolling application updates and rollback
- Application healthchecks
- Application troubleshooting
- · Deploying applications as Stacks

#### Networking Swarm workloads

- Swarm service discovery and routing implementation
- Routing strategies for stateful and stateless workloads
- · Swarm ingress traffic

#### Provisioning dynamic configuration

- Application configuration design
- Environment variable management
- Configuration file management
- Provisioning sensitive information

#### Provisioning persistent storage

- Storage backend architecture patterns
- NFS backed Swarms

#### **Monitoring Swarm**

- What to monitor in production-grade Swarms
- Potential Swarm failure modes & mitigations
- Swarm workload monitoring

## **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 - Kubernetes Engine (MKE)**

## **Cloud Native - CN210: Docker Enterprise Operations (On Demand)**

View Details

# Schedule (as of 4)

Date Location

Jun 11, 2024 – Jun 11, 2024 <u>Live Virtual</u> <u>Enroll</u>

Download Whitepaper: Accelerate Your Modernization Efforts with a Cloud-Native Strategy

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