Mirantis Docker Containerization Essentials

Duration: 1 Day Course Code: CN100 Delivery Method: Virtual Learning

Overview:

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.

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Virtual Learning

This interactive training can be taken from any location, your office or home and is delivered by a trainer. This training does not have any delegates in the class with the instructor, since all delegates are virtually connected. Virtual delegates do not travel to this course, Global Knowledge will send you all the information needed before the start of the course and you can test the logins.

Target Audience:

This course is targeted at students with the following:
Motivations: Begin creating high performance containers for new or existing applications
Roles: General technical audiences & IT professionals

Objectives:

- **After this course participants should be able to:**
- Containerization motivations and implementation
- Creating, managing and auditing containers
- Best practices in container image design
- Single-host container networking
- Provisioning external storage

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

Testing and Certification

None

Follow-on-Courses:

- CN110 - Mirantis Docker Swarm Application Essentials
- CN120 - Mirantis Kubernetes Application Essentials

Content:

Containerization motivations and implementation

- Use cases
- 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
- Optimizing 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 use cases for container-external storage.

Additional Information:

Lab Requirements Laptop with WiFi connectivity Attendees 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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