



Docker Fundamentals

Training Details

Training Time	:	2 Days
Capacity	:	12
Prerequisites	:	There are no prerequisites for this course.

About Training

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Ensure your team learns Docker the right way with official Docker training. In this course students will get the foundational concepts and practices of containerization on a single Docker node, then learn the foundations of orchestration and scale out with Docker across multiple nodes in a swarm. This course is a prerequisite for all other Docker courses include our new role-based Docker for Enterprise Operations and Docker for Enterprise Developers.

What You'll Learn

By the end of the course students will learn to:

- Understand what Docker is and how Docker can modernize the software supply-chain
- Conceptualize a mental model for Docker workflow
- Understand the foundations of Docker security and apply secrets management
- Understand the foundations of containerization on a single Docker node
- Ability to Dockerize and application by writing Dockerfiles
- Create and manage images
- Apply a basic continuous integration model for Docker
- Understand the usage of volumes
- Apply concepts of the Docker networking model
- Write stack-based compose files
- Understand how Swarm works
- Deploy a swarm application and scale it out

- Apply common Swarm operations
- Create, manage, and update Docker secrets

Outline

Containerization Basics

- The Docker Story
- Introduction to Images
- Creating Images
- Managing Images
- Docker Continuous Integration
- Volumes

Orchestration Basics

- Docker Networking Basics
- Compose
- Scaling out with Swarm Mode
- Swarm Operations
- Managing Secrets

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