



Docker Training Program

The Docker training program leverages the pedagogical approach of learning by doing with extensive hands-on labs, enterprise-focused scenarios, and practical examples.

Docker training courses are updated regularly to ensure that learners are exposed to the latest product releases and current best practices informed by Docker's extensive field experience.

Each course features a variety of assessment instruments from practice quiz questions, lab exercises, to project-based signature assignment for learners to practice and meet the learning objectives of each course.

Course Description

The Docker Fundamentals training course features the foundational concepts and practices of containerization on a single Docker node. The course offers learners the opportunity to assimilate basic container orchestration and how to scale Docker across multiple nodes in a simple swarm cluster. This course provides essential foundational knowledge for subsequent Docker courses.

Learning Objectives

By the end of the course successful learners will be able to:

- Understand the foundations of containerization on a single Docker node
- Create an image using Dockerfile best practices
- Use volumes in the application development process
- Apply concepts of the Docker networking model
- Understand the goal of services as a method of scaling containers
- Utilize two different orchestrators (Swarm and Kubernetes) to deploy a single application across multiple machines
- Create a secret and understand its accessibility capabilities

Course Outline

Day 1

- Introducing Docker
- Containerization Fundamentals
- Creating Images
- Docker Volumes

Day 2

- Docker Networking Basics
- Introduction to Docker Compose
- Introduction to Swarm Mode
- Introduction to Kubernetes
- Secrets
- Fundamentals Signature Assignment

Who Should Attend

Developers, operators, and architects desiring a strong foundation in Docker technologies and an introductory hands-on experience building, shipping, and running Docker containers.