Course Brief

Docker for Enterprise Developers

Docker Training

Ensure your team learns Docker the right way with official training from Docker, Inc. The official Docker curriculum focuses on learning by doing with extensive hands-on labs, enterprise-focused scenarios, and practical examples. All official Docker classes are updated regularly to ensure you're learning on the latest product releases and benefiting from the current best practices formed by Docker's extensive field experience.

Course Description

As the follow-on to our Docker Fundamentals course, Docker for Enterprise Developers is a role-based course designed for an organization's Development and DevOps teams to accelerate their Docker journey in the enterprise.

This course is meant for developers and DevOps teams that want to learn how to containerize and modernize legacy applications or build containerized applications from scratch that are secure, robust, highly available, resilient and self-healing. This course teaches all the necessary foundations to achieve this goal.

Course Outline

Day 1

- Architecture of a Highly Distributed Application
- Development Pipeline Overview
- Developing Applications using Docker
    - Edit and Continue
    - Debugging
    - Docker Compose
    - Testing
    - Health Check
    - Defensive Programming
    - Logging and Error Handling
    - Docker Builder
    - Docker Secrets
    - Routing Mesh
    - HTTP Routing Mesh

Day 2

- Continuous Integration and Delivery
    - UCP and DTR
    - Configuration Management
    - Tagging and Versioning
    - Content Trust
    - Image Scanning
    - Webhooks
    - Image Promotion

Who Should Attend

Software Engineers and DevOps professionals working in an Enterprise developing mission critical line of business applications.

Prerequisites

- Completed Docker Fundamentals Course or equivalent
- Familiarity with using the Linux command line.
- Knowledge of Docker basics
    - Run a Docker container
    - Search for and pull images from Docker Store
    - Use Docker for Mac or Windows on your local machine

Learning Objectives

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

- Setup a Docker-centric development environment
- Containerize existing legacy applications
- Build secure services
- Develop containerized services for mission critical applications
- Test code running in containers to produce more robust services

Specifications

Maximum Class Size	20 students
Delivery Method	Instructor-led training Online or classroom