

## Docker Fundamentals

**Length:** 2 Days

**Summary:** 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.

**Upon Completion of this Course,** attendees will have learned how to:

- Assess the advantages of a containerized software development & deployment
- Use Docker engine features necessary for running containerized applications
- Utilize Swarm and Kubernetes orchestrators to deploy, maintain, and scale a distributed application

**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.

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## COURSE CONTENT

### Module 1:

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

### Module 2:

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