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## Docker Fundamentals

**Duration: 2 Days    Course Code: DOCK6016**

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### Overview:

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 or Kubernetes cluster.

This course provides essential foundational knowledge for subsequent Docker courses.

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### Target Audience:

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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### Objectives:

- 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
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### Prerequisites:

Familiarity with Linux command line.

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### Content:

#### Day 1

- The Docker Story
- Introduction to Images
- Creating Images
- System Commands

#### Day 2

- Docker Networking Basics
  - Docker Compose
  - Scaling out with Swarm ; Kubernetes
  - Managing Secrets
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### Further Information:

For More information, or to book your course, please call us on 00 971 4 446 4987

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