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## Docker Fundamentals Plus Enterprise Operations Course Bundle

**Duration: 4 Days    Course Code: DOCK6022**

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### Overview:

The Docker Fundamentals + Enterprise Operations Bundle includes the full Docker for Enterprise Operations course as well as the prerequisite Docker Fundamentals course run back to back in a single intensive training experience. The Docker Fundamentals training 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. As the follow-on to the Docker Fundamentals course, Docker for Enterprise Operations is a role-based course designed for Docker Operations teams to accelerate their Docker journey in the enterprise. The course covers in-depth core advanced features of Docker EE and best practices to apply these features at scale with enterprise workloads

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### Target Audience:

IT professionals with an operations or system administration background desiring an intense and rapid onramp to Docker technologies including gaining a strong foundation in Docker technologies and an understanding of designing, deploying, and managing Docker containers at scale in an enterprise environment.

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### Objectives:

- By the end of the course 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
  - Utilize two different orchestrators (Swarm and Kubernetes) to deploy a single application across multiple machines
  - Create a secret and understand its accessibility capabilities
  - Identify the key features of UCP and DTR and describe how to assemble it into a complete, basic software supply chain that includes CI/CD, content trust, and image scanning.
  - Describe the methodological differences between managing containers and managing virtual machines.
  - Describe the high-level structure of an EE deployment consisting of UCP, DTR and pluggable tooling
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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
- Volumes
- Plugins

### Day 2 :

- Docker Networking Basics
- Docker Compose
- Scaling Out with Swarm Mode
- Managing Secrets

### Day 3 :

- Welcome
- Introduction to Docker Datacenter
- UCP Architecture
- UCP Networking
- UCP Role-based Access Control
- Secrets Management
- Logging
- Monitoring and Recovery
- UCP Health Check

### Day 4 :

- DTR Overview
- DTR Organizations and Teams
- Content Trust
- Image Scanning
- Repository Automation
- Image Caching
- DTR Troubleshooting
- Designing a DDC Deployment

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## Further Information:

For More information, or to book your course, please call us on Head Office Tel.: +974 40316639

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