

## Docker Containerization Essentials

**Duration: 1 Day**    **Course Code: CN100**    **Delivery Method: Virtual Learning**

### Overview:

In this course, you'll learn how to create and manage individual containers using the Docker Engine. We'll cover best practices in container image design and container deployment and auditing, as well as an introduction to single-node container networking and storage. This course is best practices focused, and is designed to enable rapid successful adoption of containerization from first principles.

#### Virtual Learning

This interactive training can be taken from any location, your office or home and is delivered by a trainer. This training does not have any delegates in the class with the instructor, since all delegates are virtually connected. Virtual delegates do not travel to this course, Global Knowledge will send you all the information needed before the start of the course and you can test the logins.

### Target Audience:

General technical audiences & IT professionals

### Prerequisites:

Attendees should meet the following prerequisites:

- Familiarity with the bash shell
- Filesystem navigation and manipulation
- Command line text editors like vim or nano
- Common tooling like curl, wget and ping

### Follow-on-Courses:

- CN110 - Docker Swarm Application Essentials
- CN120 - Kubernetes Application Essentials

### Content:

Containerization motivations and implementation

- Usecases
- Comparison to virtual machines

Creating, managing and auditing containers

- Container implementation from the Linux kernel
- Container lifecycle details
- Core container creation, auditing and management CLI

Best practices in container image design

- Layered filesystem implementation and performance implications
- Creating images with Dockerfiles
- Optimising image builds with multi-stage builds and image design best practices

Single-host container networking

- Docker native networking model
- Software defined networks for containers
- Docker-native single-host service discovery and routing

Provisioning external storage

- Docker volume creation and management
- Best practices and usecases for container-external storage.

## Additional Information:

### Lab Requirements:

Laptop with WiFi connectivity Attendees should have the latest Chrome or Firefox installed, and a free account at strigo.io.

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## Further Information:

For More information, or to book your course, please call us on Head Office 01189 123456 / Northern Office 0113 242 5931

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