Docker - Fundamentals

Category: Cloud Platforms | **Vendor:** Various

Duration: 24.00 hours (3 days) **19.5 CPD Hours** **Rating:** ⭐ 4.6 (5,878 reviews)

Course Information

Delivery Format: Instructor Led - Online

Course Overview

- Basic concepts and use cases of containers
- Basics of images, volumes and networks
- Implementing service architectures with docker-compose
- Designing container-based applications
- Creating custom images (Dockerfile) with layers, caching and multistage
- Advanced debugging of containers
- Security Best Practices
- Containers on Windows
- Docker architecture with namespaces, cgroups and alternative runtimes
- Rootless Docker
- Container-based development environments
- CI/CD with and for containers
- Container Orchestration

About This Course

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Who Should Attend

- Software developers
- Software architects
- System administrators
- DevOps engineers

Prerequisites & Entry Requirements

General Prerequisites:

- (optional) Some experience with Terminal/Bash
- (optional) Some experience with Docker

Learning Outcomes

Upon successful completion of this course, participants will be able to:

The course teaches the usage of Docker and provides technical background for it. On the first day, we cover use cases and basics of containers. The use cases provide insight into situations where containers are useful. The basics will enable participants to use containers confidently. The second day includes the creation of self-created images, as well as a deep insight into debugging with containers. With that, errors that can occur during the creation and operation of containers can be quickly found and fixed. The third day covers more in-depth topics as well as the use of containers in development environments, CI/CD systems and clusters. Thus, the course is explicitly aimed at teams with different experience levels with Docker and containers.

Detailed Course Outline

Short introduction to container architecture

Docker from 10,000 meters

Installing Docker

Working with images

Working with containers

Creating your own images

"Dockering" of a software application

Installation of your own Docker Registry or DTR

Volume Management and Docker

Log management and Docker

Networks and Docker

Multi-host networking with Docker

Creating a Docker Host with Docker Machine

Mapping Service Architectures with Docker Compose

Creating a Docker Cluster with Docker Swarm

Skills You Will Learn:

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Frequently Asked Questions

Q: What delivery options are available for Docker - Fundamentals?

We offer multiple delivery formats:

- Live Instructor-Led Classroom Online (Virtual/Live Online)
- Traditional Instructor-Led Classroom Training (ILT)
- On-site delivery at your offices anywhere in United Kingdom
- Private dedicated courses customized for your team

Q: How many CPD hours does this course provide?

The 3-day Docker - Fundamentals course provides up to 19.5 CPD hours of structured learning. CPD certificates can be provided upon request.

Q: What is the duration of the Docker - Fundamentals training?

The training takes place over 3 day(s), with each day lasting approximately 24.00 hours including breaks for lunch and refreshments.

Q: Do you provide corporate training for Docker - Fundamentals?

Yes, we provide corporate training, dedicated training, and closed classes for Docker - Fundamentals. Training can take place anywhere in United Kingdom including London, Manchester, Birmingham, Edinburgh, or live online allowing teams from across United Kingdom or internationally to attend.

Q: What related terms do people search for?

Popular related searches include: Docker - Fundamentals, Cloud Foundations, DKE

Q: Why choose Nexus Human for Docker - Fundamentals?

Nexus Human is recognized as one of the leading training providers. Our trainers have won multiple awards including:

- Small Firms Best Trainer Award
- National Training Partner of the Year (Ireland) - Multiple Years
- Global Top 30 Instructor Awards (2012, 2019, 2021)
- Tech Excellence Award Nominations
- Learning Performance Institute (LPI) External Training Provider Sponsor 2024

Q: Are there any discount codes available?

Yes! Use discount code **PENPAL5** when booking your Docker - Fundamentals training. Please note that only one discount code can be used per booking and cannot be combined with other special offers.

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