

Definitive Docker for engineers

A 2 day **Hands on** training course



Description

Docker is the container platform of choice. This course covers how to use Docker to package your applications with all of their dependencies and then test, deploy, scale and support your containers.

Hands on sessions follow all the major sessions.



Key outcomes

By the end of the course delegates will be able to:

- ✓ Work with Docker images, containers and command line tools.
- ✓ Deploy and test Docker containers.
- ✓ Debug Docker containers.
- ✓ Describe Docker networking, deployment tools, orchestration and security.



Training Approach

This structured course uses Instructor Led Training to provide the best possible learning experience. Small class sizes ensure students benefit from our engaging and interactive style of teaching with delegates encouraged to ask questions throughout the course. Quizzes follow each major section allowing checking of learning. Hands on sessions are used throughout to allow delegates to consolidate their new skills.



Details

Who will benefit?

Those working with Docker.

Prerequisites

Introduction to virtualization.

Duration: 2 days

Overall rating:



Generic Training



Generic training compliments product specific courses covering the complete picture of all relevant devices including the protocols "on the wire".

"Friendly environment with expert teaching that teaches the why before the how."
G.C. Fasthosts

Small Class Sizes



We limit our maximum class size to 8 delegates; often we have less than this. This ensures optimal interactivity between delegates and instructor.

"Excellent course. The small class size was a great benefit..."
M.B. IBM

Hands On Training



The majority of our courses use hands on sessions to reinforce the theory.

"Not many courses have practice added to it. Normally just the theoretical stuff is covered."
J.W. Vodafone

Our Courseware



We write our own courses; courseware does not just consist of slides and our slides are diagrams not bullet point text.

"Comprehensive materials that made the course easy to follow and will be used as a reference point."
V.B. Rockwell Collins

Customise Your Course



Please contact us if you would like a course to be customised to meet your specific requirements. Have the course your way.

"I was very impressed by the combination of practical and theory. Very informative. Friendly approachable environment, lots of hands on."
S.R. Qinetiq

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Course Content

Introduction

The birth of docker, the promise of docker, what docker isn't.

Docker at a glance

Process simplification, broad support and adoption, architecture, getting the most from Docker, the Docker workflow.

Installing Docker

Important terminology, Docker client, Docker server, test the setup.

Working with Docker images

Anatomy of a Dockerfile, building an image, running your image, custom base images, storing images.

Working with Docker containers

What are containers? creating a container, starting a container, auto-restarting a container, stopping a container, killing a container, pausing and unpausing a container, cleaning up containers and images, next steps.

Exploring Docker

Printing the Docker version, server information, downloading image updates, inspecting a container, getting inside a running container, exploring the shell, returning a result, docker logs, monitoring Docker, exploration.

The path to production containers

Deploying, testing containers.

Debugging containers

Process output, process inspection, controlling processes, network inspection, image history, inspecting a container, filesystem inspection, moving along.

Docker at scale

Docker swarm, centurion, amazon EC2 container service.

Advanced topics

Pluggable backends, containers in detail, security, networking.

Designing your production container platform

The twelve-factor app, the reactive manifesto.

Conclusion

The challenges, the Docker workflow, minimizing deployment artifacts, optimizing storage and retrieval, the payoff, the final word.

What our customers say

"Absolutely brilliant, very knowledgeable and helpful trainer would recommend to teach anyone. Kept me interested 100% of the time which is very impressive as this does not happen often, if at all!"

O. B. Network Rail

"The best technical course I've been on!."

L. W. Fujitsu Telecoms Europe

"Very well thought out and structured course. Would recommend 100%. Lots of equipment, good quality."

A.R. Unipart

"Course content is interesting. Relevant to current systems and presented well."

S.S-T. Arqiva

