

# Container Virtualisation with Docker - End-User Workshop for Presales

Now that classic virtualisation (VMware vSphere/ESXi, Microsoft Hyper-V, KVM ...) has been established for years and data centres can no longer be imagined without it, terms like "Docker", "containers", "microservices", "image", "runtime", "registry", "cloud computing", "serverless computing", "orchestration", etc. are doing the rounds. More and more manufacturers are launching new software products as "Docker solutions" (containers/images) and adapting existing products to the "new technology". In contrast to classic virtualisation, container virtualisation does not virtualise entire servers but only individual services. Due to the significantly lower overhead, containers can be set up faster than virtual machines, are easier to replicate and require fewer resources. Furthermore, they offer advantages in terms of scaling and load distribution. This workshop uses practical exercises to teach the basics of container virtualisation based on Docker - the container virtualisation software par excellence.

The workshop is aimed specifically at presales staff.

The workshop provides presales staff with the necessary know-how to competently inform and advise customers about the new products.

## Target Group

Technical staff and end-users from presales

## Methods

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If you want to participate remotely, please note the following technical requirements.

- | Equipment to participate in a video conference e.g. headset
- | Two PCs or one PC with dual screens. One will be for the web session and the other is for documentation access.

Further information will be provided prior to the start of the course.

## Key Features

### Virtualisation Concepts

- | Containers vs. virtual machines (VMs)
- | Development and standards of container virtualisation
- | Advantages of container virtualisation over VMs
- | Disadvantages of container virtualisation compared to VMs

### The Architecture of Docker

- | What are images?
  - | What is a registry?
  - | What is a runtime?
  - | What is a container?
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## Getting to know Docker

- | Docker CLI
- | Loading and deleting images
- | Starting and stopping containers

## Working with Docker

- | Creating your own images
- | Installing in containers
- | "Containerising" applications
- | Exporting and importing images and containers
- | Volumes (persistent data in containers)
- | Updating containers and images

## Overview Deployment and Orchestration

- | docker-compose
- | docker stack
- | Docker Cluster (Swarm)
- | Kubernetes

## Events

Dates on request

### Duration

2 Days

### Certificate

TOP Certification

## Contact Person



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