

Cloud Training: Docker Implementation from A to Z (DOCK, 3 jours)

Description

The course The Complete Docker Implementation Course (Cloud Training) teaches you how to design, and implement a Docker environment. The training includes a general introduction to Docker including persistent storage, shared state, networking and isolation. The course also covers build automation, advanced imaging, custom registries & Docker Compose. This Docker course concludes with a discussion on clusters & swarms.

Tarifs

- Tarification: \$3,350/person
- Rabais de 10% lorsque vous inscrivez 3 personnes.

Plan de cours

Introduction to Docker

What is Docker and what Problems does it Solve?

Where and when should I use Docker?

Docker versus Application Virtualization: A Key Difference

The Docker Application Execution Workflow

Building a Web Site Monitor

Exploring the PID Namespace

Eliminating Meta-conflicts

Building Environment Agnostic Systems

Building Durable Containers

About Software Installation

About Software Identification

Finding and Installing Software

Installation Files and Isolation

Pros and Cons of Union File Systems

Persistent Storage and Shared State with Volumes

Exploring Volumes

About Volume Types

Sharing Volumes

The Managed Volume Lifecycle

Advanced Container Patterns with Volumes

Networking

The Network Ecosystem

Docker Container Networking

Closed Containers

Bridged Containers

Joined Containers

Open Containers

Inter-Container Dependencies

Implementing Isolation

Exploring Resource Allowances

Managing Shared Memory

About Users

Adjusting OS Features Access with Capabilities

Running a Container with Full Privileges

Enhanced Tools

Exploring Concrete Use Cases

Packaging Software in Images

Building Docker Images from a Container

Docker Images and Layers

Working with Flat File Systems

Managing Versioning

Build Automation and Advanced Imaging

Exploring Dockerfile

Packaging Git with a Dockerfile

Injecting Downstream Build-Time Behaviour

Working with Startup Scripts

Working with Multiprocess Containers

Application Image Hardening

Public and Private Software Distribution

Choosing a Distribution Method

Publishing with Hosted Registries

Exploring Private Registries

Manual Image Publishing and Distribution

Image Source Distribution Workflows

Running Customized Registries

Running a Personal Registry

Enhancements for Centralized Registries

Durable BLOB Storage

Scaling Access and Latency Improvements

Integrating through Notifications

Docker Compose

Working with Docker Compose

Iterating within an Environment

Starting a New Project

Clusters and Swarms

Exploring Docker Machine

Exploring Docker Swarm

Swarm Scheduling