SETC Training Corporate Logo

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
Pakaging 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