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# Docker Compose training: Centralize your Docker containers

2 days (14 hours)

## Presentation

Our Docker Compose training course is aimed at DevOps and developers wishing to deepen their application management skills. In this course, you will learn how to transform an existing application into a Docker environment. [Docker Compose](#) enables you to bring together a set of containers in a single [YAML](#) file and configure them all together. The way Compose works makes application management much simpler. Containers can be deployed on a single machine, and its ease of use ensures increased productivity. Docker Compose training will also enable you to create images from source code and deploy complete environments. Monitoring and problem detection will also be covered. You'll also learn how to compartmentalize your applications and make them interact only when necessary. This Docker Compose feature guarantees maximum security for your environment.

## Objectives

- Installing and configuring Docker Compose
- Creating container sets
- Monitor and manage containers

## Target audience

- DevOps
- Developers

## Prerequisites

Basic knowledge of Docker and Kubernetes.

## Docker Compose training program

## The basics of Docker Compose

- The role of Compose
- Install Compose
- YAML fundamentals
- Stacks Compose
- Restart policy

## Configuration

- Files" settings
- Default "Overdrive" file
- Configuration Extends
- Define ports and volumes
- Properties

## Container networks

- Default network
- Insulating containers
- Container aliases and names
- Building bridges
- Define variable environments

## CLI Compose

- Lifecycle of "Up" environments
- Changing an environment
- Monitor an environment
- Environment files
- Downgrading an environment

## Building images

- Construction models
- Construction keys
- Short Forms & Long Forms
- Modify names and tags
- Docker commands

## Compose in production

- Building a Swarm Cluster
- Deploying a Swarm Cluster
- Setting up an Overlay Network
- Ingress Network
- Control and data traffic interfaces

## Companies concerned

This course is aimed at both individuals and companies, large or small, wishing to train their teams in a new advanced computer technology, or to acquire specific business knowledge or modern methods.

## Teaching methods

Practical course: 60% Practical, 40% Theory. Training material distributed in digital format to all participants.

## Organization

The course alternates theoretical input from the trainer, supported by examples, with brainstorming sessions and group work.

## Validation

At the end of the session, a multiple-choice questionnaire verifies the correct acquisition of skills.

## Sanction

A certificate will be issued to each trainee who completes the course.