TRAINING BRIEF

Overview
Concepts, installation, configuration and use of Docker.
This training is not specific to any programming language.

Duration
2 days.

Audience
Architects, Developers, SysAdmins.

Prerequisites
Networking fundamentals,
Use of command line (feeling comfortable with Linux), Shell script.

Learning objectives
Trainees will know how to:
- install Docker,
- work with containers and images,
- build images and push them to Docker Hub,
- configure network and volumes
- work with Docker in a development and production environment.

Methodology
Mix of lecture (50%) and hands-on exercices (50%).

Training material provided
Training manual given to every trainee.

Language
Available in English and French.

Optional support
Technical support can also be offered in order to install, configure and use properly Docker in your environment.

TRAINING COURSE

Introduction to Docker

DESCRIPTION
Docker is a virtual software container platform which allows to package applications and their dependencies in order to execute them on any Linux server. Connected to a remote versioning server, it eases application maintenance and its system configuration on multiple environments.
At the end of this training course, trainees will have a clear understanding of all concepts around Docker and will be able to use it in their environment.

TRAINING PLAN

I.   History of Docker - Why you should use Docker?

II.   Docker architecture

III.   Installing Docker (Linux/Mac/Windows)

IV.   Work with containers

V.   Work with images

VI.   Dockerfile

VII.   Docker Hub and automated construction

VIII. Network configuration

IX.   Volumes

X.   Connection and container liaisons

XI.   Multi-container application with Docker Compose

XII.   Using Docker in a Continuous delivery and Continuous Integration environment

XIII. Securing Docker

XIV.   Docker API

XV.   Docker in Production