

FANDSKILL Behavioral Skills for Corporate

FANDS-PRO Finishing & Technical Skills for Collegias

Starting with Docker

Total Duration

4 days

Audience:

This workshop is intended for developers who need to understand Docker basics and start learning YML.

Course Objectives:

After completing this workshop the participants will be able to do

- Install Docker
- Work with Docker images
- Develop and deploy small application using Docker
- Start working with YML

Pre-requisites:

Networking basics

Course Contents:

- Understand the architecture
 - What can I use Docker for?
 - What are the major Docker components?
 - What is Docker's architecture?
 - The Docker daemon
 - The Docker client
 - o Inside Docker
 - How does a Docker image work?
 - How does a Docker registry work?
 - How does a container work?
 - What happens when you run a container?
 - The underlying technology
 - Namespaces
 - Control groups
 - Union file systems
 - Container format
- Installing Docker
 - o Installation from binaries
 - o on Linux
 - o on Windows
- Running a Docker Container
 - From the Docker Quickstart Terminal

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- o Using Docker from Windows Command Line Prompt (cmd.exe)
- o Using Docker from PowerShell
- o Container port redirection
- o Login with PUTTY instead of using the CMD
- Getting started with Docker Hub
 - Dockerizing applications: A "Hello world"
 - o Working with containers
 - o Working with Docker images
 - Linking containers together
 - Managing data in containers
 - Working with Docker Hub
- Overview of Docker Compose
 - o Installation and set-up
 - o Create a Docker image
 - o Define services
 - Build and run your app with Compose
- Work with development container
 - Clean your host of Docker artifacts
 - o Build an image
 - Start a container and run a test
 - Restart a container with your source
- Work with YML
 - o image
 - o **build**
 - o dockerfile
 - o command
 - extra_hosts
 - o ports
 - o links/external_links

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- How to work with .Net applications
- How to work with Microsoft 5.0 image
- Working with web application deployment
- Working with REST Server

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