

# Containers – Introduction w/ Docker

## Lesson 00: Introduction to Docker container

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## Course Goals and Non Goals



### ➤ Course Goals

- Understanding of Container
- What is Docker container
- How Docker container is better than VM
- Understanding of Docker Architecture
- Understanding the Docker Platform overview
- Different Docker components

### ➤ Course Non Goals

- Deploying Spring Rest complete project in Docker

### Pre-requisites



Understanding of Linux command

Understanding of basic computer networking(port , IP address etc.)  
architecture

Knowledge of Java programming

Basic knowledge on Cloud

Intended Audience



Developers new to Java Cloud technology



## Day Wise Schedule



### Day 1

- Lesson1: Introduction To Docker
- Lesson 2: Docker platform overview
- Lesson3: Docker platform in Details

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### Lesson 1: Introduction to Docker

- What is Docker
- Limitation of VM
- Introduction to Container
- Container Vs VM
- Docker Architecture
- Docker Community
- Docker Installation(demo)

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### Lesson 2: Docker Platform Overview

- Docker Platform
- Docker Engine
- Docker Images
- Docker containers
- Registry
- Repositories
- Docker Hub

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### Lesson 3: Docker Platform in Details

- Docker Platform
- Docker Engine
- Docker Images
- Docker containers
- Registry
- Repositories
- Docker Hub



### References



#### Books:

- Building Micro Services Designing Fine-Grained Systems by Sam Newman
- Beyond the 12 Factor App: Exploring the DNA of Highly Scalable, Resilient Cloud Applications by Kevin Hoffman
- Migrating to cloud in native application architecture by Matt Stine.

#### Websites:

- MicroServices : <http://microservices.io/>
- MicroServices Architecture : <https://smartbear.com/learn/api-design/what-are-microservices//>
- Cloud native : <https://pivotal.io/cloud-native>

### Next Step Courses




Micro service Implementation using Spring Boot and  
Spring Rest Template  
Docker Container

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Other Parallel Technology Areas

Monolithic Services

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