


## Docker Swarm

 Duration: 3 Days

 Available Languages: English German

### Audience

Software Developers, Architects and Deployment Engineers.

### Precondition

Docker and Container basic knowledge.

### Goals

To learn Docker Swarm mode and its working.

### Contents

- Docker Introduction
  - What is Docker?
  - Why Docker?
- Installing Docker
- Containers
  - Containers vs Virtual Machines
  - Container vs Images
- Docker Architecture
  - The Docker Daemon
  - The Docker Client
  - Docker Registries
  - Docker Objects
    - Images
    - Containers
    - Services
- Running Containers
- Building Images
- Persistent Data Storage
- Docker Compose
- Docker Networking
- Docker Swarm Introduction
  - Introduction
  - Architecture and Terminology
  - Filtering and Scheduling
- Swarm Mode Features

- Docker Swarm Mode Key Concepts
  - Nodes
  - Services and Tasks
  - Load Balancing
- Concepts – Manager and Workers
- Swarm Mode Working
  - Initializing Swarm
  - How Nodes Work?
    - Join Nodes in Swarm
    - Manage Nodes in Swarm
  - Run Docker in Swarm Mode
  - How Services Work?
    - Deploy Services to a Swarm
- Overlay Network
- Service Discovery
- Routing Mesh
- Docker Services
- Performing Rolling Updates
- Docker Logs
- Docker Stacks
- Docker Secrets
- Partitioning / Node Labeling
- Node Management
- Swarm Mode CLI Commands
- Troubleshooting
- Securing the Docker Engine / Swarm
  - Manage Swarm Security
- Example Demonstration

## Booking

Contact Siddhesh Nikude, +91-95-52572354, [training@nelkinda.com](mailto:training@nelkinda.com)