

## 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
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- Running Containers
- Building Images
- Persistent Data Storage
- Docker Compose
- Docker Networking
- Docker Swarm Introduction
  - # Introduction
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  - # Filtering and Scheduling
- Swarm Mode Features
- Docker Swarm Mode Key Concepts
  - # Nodes
  - # Services and Tasks

- # Load Balancing
- Concepts - Manager and Workers
- Swarm Mode Working
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  - # 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

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