

Docker Certified Associate, Part 4 of 8: Orchestration

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Meet the expert: Zeal works primarily as a Cloud Security Consultant guiding organizations to re-build their infrastructure with security in mind. Zeal also holds more than 13+ certifications ranging from RedHat Certified Architect to AWS Security.

Prerequisites: none

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Course description: Docker Certified Associate validates the skill set of real-world Docker Practitioners. This course covers Container Orchestration, swarm services, docker compose, mounting volumes, split brain and recovery.

Course outline:

Container Orchestration

- Introduction
- Container Orchestration
- Overview of Docker Swarm
- Initializing the Docker Swarm
- Summary

Services Tasks Containers

- Introduction
- Services Tasks Containers
- Scaling Docker Service in Swarm
- Multiple Approaches to Scale Swarm Service
- Summary

Swarm Services

- Introduction
- Replicated vs Global Service in Swarm
- Draining Node in Swarm
- Docker Inspect Swarm Services and Nodes
- Publish Ports in Swarm
- Summary

Docker Compose

- Introduction
- Docker Compose
- Docker Stack
- Locking Swarm Cluster
- Troubleshooting Service Deployment
- Summary

Mounting Volumes

- Introduction
- Mounting Volumes in Swarm
- Control Service Placement
- Overlay Network
- Summary

Custom Networking

- Introduction
- Custom Network for Swarm Nodes Overlay
- Secure Overlay Network

- Creating Swarm Service using Templates
- Summary

Split Brain

- Introduction
- Split Brain and Quorum
- Swarm Manager Node HA
- Summary

Recovery

- Introduction
- Running manager only node
- Recover from losing the quorum
- Docker System Commands
- Summary