

Szkolenie: Mirantis CN110 Docker Swarm Application Essentials



Cel szkolenia:

In this course, you'll learn what a containerized application looks like when orchestrated by Docker Swarm. We'll cover scheduling workloads across a cluster, networking stateless and stateful applications, provisioning dynamic configuration and persistent storage, and scaling highly available applications in this course intended to set a strong foundation in orchestration for all technical roles.

Who Should Attend

This course is targeted at students with the following:

- Motivations: Develop, operate or manage scalable containerized applications orchestrated by Docker Swarm
- Roles: General technical audiences & IT professionals

Plan szkolenia:

- Setting up and configuring a Swarm
 - Operational priorities of container orchestration
 - Containerized application architecture
 - Swarm scheduling workflow & task model
 - Automatic failure mitigation
 - Swarm installation & advanced customization
- Deploying workloads on Swarm
 - Defining workloads as services
 - Scaling workloads
 - Container scheduling control
 - Rolling application updates and rollback
 - Application healthchecks
 - Application troubleshooting
 - Deploying applications as Stacks
- Networking Swarm workloads
 - Swarm service discovery and routing implementation

- Routing strategies for stateful and stateless workloads
- Swarm ingress traffic
- Provisioning dynamic configuration
 - Application configuration design
 - Environment variable management
 - Configuration file management
 - Provisioning sensitive information
- Provisioning persistent storage
 - Storage backend architecture patterns
 - NFS backed Swarms
- Monitoring Swarm
 - What to monitor in production-grade Swarms
 - Potential Swarm failure modes & mitigations
 - Swarm workload monitoring

Wymagania:

- CN100 course or equivalent experience
- Familiarity with the Bash shell
 - Filesystem navigation and manipulation
 - Command line text editors like vim or nano
 - Common tooling like curl, wget and ping
- Familiarity with YAML and JSON notation

Poziom trudności



Certyfikaty:

The participants will obtain certificates signed by Mirantis.

Prowadzący:

Authorized Mirantis Trainer.