



MIRANTIS

CN212: Mirantis Kubernetes Engine (MKE) (On Demand)

Code: CN212-OD
URL: [View Online](#)

In this product-focused course, you'll deep dive into all the features of Mirantis Kubernetes Engine, and discover how it simplifies, secures and accelerates Kubernetes and Swarm cluster management at enterprise scale. We'll discuss installing and configuring MKE, managing MKE user permissions and orchestrator resources, and advanced networking features included in the platform, as well as MKE troubleshooting and support.

Benefit from vendor-certified IT training and get access to video content of certified instructor(s), one year of access to the course videos, and up to 240 hours of hands-on cloud-based labs over any 10 day period.

Who Can Benefit

This course is targeted at students with the following:

- Motivations: Leverage all the features of Mirantis Kubernetes Engine in order to securely manage large-scale, many-user Kubernetes and Swarm clusters.
- Roles: System Operators & Administrators

Prerequisites

- [CN110](#) OR [CN120](#) OR CN211 course and prerequisites therein, 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

Course Details

Lab Requirements

- Laptop with WiFi connectivity
- Attendees should have the latest Chrome or Firefox installed, and a free account at strigo.io.

Course Outline

Mirantis Kubernetes Engine architecture

- Production-grade deployment patterns
- Containerized components of MKE
- Networking & System requirements for MKE
- Installing MKE via Launchpad for high availability

Access control in MKE

- MKE RBAC systems
- PKI, client bundle and API authentication
- Swarm and Kubernetes access control comparison

L7 networking features

- Interlock for Swarm
- Istio for Kubernetes
- Sticky sessions, canary or blue/green deployments, and cookie usage for both orchestrators

MKE Support Dumps

- Generating and understanding MKE support dumps
- Finding critical information in support dumps for troubleshooting MKE
- Enabling and exporting API audit logs for disaster post-mortem

MKE Troubleshooting

- Correlating MKE symptoms with components
- Probing and reading MKE state databases
- Recovering failed MKE managers
- MKE backups & restore
- Disaster recovery in event of critical MKE failure

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