KUBERNETES ENGINE (MKE)

Course Code: 821229

Explore the cluster management features of Mirantis Kubernetes Engine (MKE).

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.

What You'll Learn

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

Who Needs to Attend

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

- 100813 OR 100816 OR   OR 821231 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

Docker Swarm Essentials (CN110)

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VIRTUAL CLASSROOM LIVE	$900 USD	1 Day

Feb 12 - 12, 2026 | 9:00 AM - 5:00 PM EST

May 7 - 7, 2026 | 9:00 AM - 5:00 PM EDT

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PRIVATE GROUP TRAINING	1 Day

Visit us at www.globalknowledge.com or call us at 1-866-716-6688.