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