

## Course Outline:

- Mirantis Secure Registry architecture
  - Production-grade deployment patterns
  - Containerized components of MSR
  - Networking & System requirements for MSR
  - Installing MSR via Launchpad for high availability
  - Integrating external storage into MSR
- Access control in MSR
  - MSR RBAC system
- Content Trust
  - Defeating man in the middle attacks with The Update Framework & Notary
  - Content Trust usage in MSR
- Security Scanning
  - Auditing container images for known vulnerabilities
  - Setting up MSR security scanning
  - Security scan integration in continuous integration
- Repository Automation
  - Continuous integration pipeline architecture featuring MSR
  - Promoting and mirroring images through pipelines
  - Integrating MSR with external tooling via webhooks

- Image Management
  - Image pruning and garbage collection strategies and automation
  - Registry sizing strategy
  - Content caching for distributed teams
- MSR Troubleshooting
  - Correlating MSR symptoms with components
  - Probing and reading MSR state databases
  - Recovering failed MSR replicas
  - MSR backups & restore
  - Disaster recovery in event of critical MSR failure