Mirantis Secure Registry (MSR)

Duration: 1 Day Course Code: CN213 Delivery Method: Virtual Learning

Overview:

In this product-focused course, you'll deep dive into all the features of Mirantis Secure Registry, and discover how it can enhance the security of your container image production, storage and distribution both as a stand-alone registry, or integrated into a continuous integration pipeline.

We'll discuss installing and configuring MSR, managing MSR user permissions, enhancing registry security with content trust and binary security scanning, as well as registry management strategies like garbage collection, content caching, and webhook-driven third-party integrations.

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Virtual Learning

This interactive training can be taken from any location, your office or home and is delivered by a trainer. This training does not have any delegates in the class with the instructor, since all delegates are virtually connected. Virtual delegates do not travel to this course, Global Knowledge will send you all the information needed before the start of the course and you can test the logins.

Target Audience:

This course is targeted at students with the following:
- Motivations: Leverage all the features of Mirantis Secure Registry in order to enhance the security profile of container image content, distribution and execution.
- Roles: System Operators & Administrators

Objectives:

- **After this course participants should be able to:**
- Understand Mirantis Secure Registry (MSR) architecture and deployment best practices.
- Configure secure access controls, content trust, and vulnerability scanning to protect container images.
- Integrate MSR with CI/CD pipelines and automate image management processes.
- Perform troubleshooting, backup, restore, and disaster recovery for MSR environments.

Prerequisites:

- 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
- CN212 - Mirantis Kubernetes Engine (MKE)

Testing and Certification

None

Follow-on-Courses:

None

Content:

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

Additional Information:

Lab Requirements Laptop with WiFi connectivityAttendees should have the latest Chrome or Firefox installed, and a free account at strigo.io.

Further Information:

For More information, or to book your course, please call us on +1 (800) 268 7737

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