Mirantis Cloud Native Platform Bootcamp

Duration: 4 Days Course Code: CN253

Overview:

In this intense bootcamp, you'll encounter containers for the first time, learn to orchestrate them into scalable, highly available applications orchestrated by Docker Swarm, and finally discover how to enhance the security of your entire software supply chain and production environments using Mirantis Kubernetes Engine and Mirantis Secure Registry.

This bundle is ideal for students who are just starting out with containerization and want to leverage the full power of Swarm and the Mirantis orchestration platform as soon as possible.

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Target Audience:

This course is targeted at students with the following:
- Motivations: Quickly learn the foundations of containerization and orchestration with Swarm, and become familiar with all the features of Mirantis Kubernetes Engine and Mirantis Secure Registry.
- Roles: System Operators & Administrators

Objectives:

- **This course combines all topics of CN100, CN110, CN212 and CN213
- **After this course, participants will be able to:**
- Understand containerization concepts and manage containerized applications effectively.
- Deploy, orchestrate, and manage scalable and highly available workloads using Docker Swarm.
- Administer and secure Kubernetes and Swarm environments using Mirantis Kubernetes Engine (MKE).
- Implement secure container image management, vulnerability scanning, and content trust using Mirantis Secure Registry (MSR).
- Apply best practices for cloud-native platform operations, security, and software supply chain management.

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

Testing and Certification

None

Follow-on-Courses:

None

Content:

- Containerization fundamentals and container lifecycle management
- Creating, managing, and optimizing container images
- Container networking and external storage integration
- Docker Swarm architecture and cluster configuration
- Deploying, scaling, and managing workloads in Docker Swarm
- Application rollout, upgrades, and scheduling strategies
- Mirantis Kubernetes Engine (MKE) architecture and administration
- Access control, authentication, and cluster security in MKE
- Kubernetes networking and Layer 7 traffic management
- Mirantis Secure Registry (MSR) architecture and deployment
- Image security, content trust, and vulnerability scanning
- Repository automation and CI/CD integration
- Image lifecycle management, caching, and registry operations
- Troubleshooting, backup, recovery, and platform maintenance

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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