Mirantis Container Cloud (MCC) Bootcamp

Duration: 4 Days **Course Code: CN254** **Delivery Method: Company Event**

Overview:

In this intense bootcamp, you'll encounter containers for the first time, learn to orchestrate them into scalable, highly available applications orchestrated by Kubernetes, and finally begin deploying production grade Kubernetes clusters through Mirantis Container Cloud. This bundle is ideal for students who are just starting out with containerization and want to leverage the full power of Kubernetes across multiple clusters and teams. Students will leave the workshop with a proof of concept Mirantis Container Cloud deployment on AWS.

Target Audience:

This course is targeted at students with the following:
- Motivations: Quickly learn the foundations of containerization and orchestration with Kubernetes, and deploy multiple Kubernetes clusters to AWS.
- Roles: System Operators & Administrators

Objectives:

- CN100
- Containerization motivations and implementation
- - Usecases
- - Comparison to virtual machines
- Creating, managing and auditing containers
- - Container implementation from the Linux kernel
- - Container lifecycle details
- - Core container creation, auditing and management CLI
- Best practices in container image design
- - Layered filesystem implementation and performance implications
- - Creating images with Dockerfiles
- - Optimising image builds with multi-stage builds and image design best practices
- Single-host container networking
- - Docker native networking model
- - Software defined networks for containers
- - Docker-native single-host service discovery and routing
- Provisioning external storage
- - Docker volume creation and management
- - Best practices and usecases for container-external storage.
- Make effective use of pod architecture
- Deploy workloads as Kubernetes controllers
- Provision configuration at runtime to Kubernetes workloads
- Network pods together across a cluster using native services
- Provision highly available storage to Kubernetes workloads
- Package an application as a Helm chart
- CN211
- Mirantis Container Cloud Architecture
- - Management, regional, managed and attached cluster usage and architecture
- - Installation and setup of management and managed clusters
- MCC User Management
- - Using Keycloak to manage user permissions
- - Integrating LDAP with MCC
- - Managing permissions for multitenancy
- Cluster Logging & Monitoring
- - Stacklight configuration and cluster integration
- - Using Prometheus and Grafana dashboards
- - Customizing Stacklight configurations & third-party integrations
- - Exploring logs with Kibana

CN120

Further Information:

For More information, or to book your course, please call us on Head Office 01189 123456 / Northern Office 0113 242 5931

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