Mirantis Kubernetes Application Essentials

Duration: 2 Days Course Code: CN120 Delivery Method: Virtual Learning

Overview:

Whether your focus is on developing containerized applications or managing a container-centric infrastructure, CN120 introduces Kubernetes container orchestration for everyone involved in the software development life cycle.

Through a real-world approach for design and deployment considerations, students can expect to learn about the foundational Kubernetes components required for application workloads. Specifically, students will examine Kubernetes architecture, explore how Kubernetes objects work together for running an application, and learn how Kubernetes makes use of compute, networking, and storage resources.

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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: General technical audiences & IT professionals
Roles: Architect basic applications for Kubernetes

Objectives:

- **After this course participants should be able to:**
- 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

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
- CN100 - Mirantis Docker Containerization Essentials

Testing and Certification

None

Follow-on-Courses:

- CN210 - Docker Enterprise Operations
- CN220 - Mirantis Kubernetes Operations
- CN230 - Mirantis Kubernetes Native Application Development

Content:

- Kubernetes architecture and core components.
- Pod architecture and lifecycle management.
- Deploying applications using Kubernetes controllers (Deployments, ReplicaSets, etc.).
- Runtime configuration using ConfigMaps and Secrets.
- Kubernetes networking and Service concepts.
- Connecting and exposing applications within a cluster.
- Persistent storage and highly available storage solutions.
- Managing compute, network, and storage resources.
- Application deployment best practices.
- Packaging and deploying applications with Helm charts.

Additional Information:

Lab Requirements Laptop with WiFi connectivity Attendees 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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