Mirantis Cloud Native Development Bootcamp

Duration: 5 Days Course Code: CN252

Overview:

In this cloud native 5-day bootcamp, you will quickly learn the core skills you need to develop high performance, secure containerized applications and orchestrate them on Kubernetes before deep diving into advanced techniques for streamlining the container development process, instrumenting containers for production systems, and building fully containerized continuous integration pipelines.

This bundle is meant to accelerate the containerization journey for developers and devops teams, by helping them take full advantage of all the opportunities containerization offers.

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Target Audience:

This course is targeted at students with the following:
Motivations: Quickly learn the foundations of containerization and Kubernetes before developing container-native applications and fully containerized continuous integration.
Roles: Developers, application architects, devops

Objectives:

- ** This course combines all topics of CN100, CN120, and CN230
- **After this course, participants will be able to:**
- Understand containerization fundamentals and apply best practices for developing containerized applications.
- Build, package, and manage cloud-native applications using containers and Kubernetes.
- Deploy and orchestrate applications on Kubernetes using native resources and Helm.
- Implement container networking, storage, monitoring, and health management strategies.
- Develop and optimize secure, high-performance containerized applications for production environments.
- Build and support containerized CI/CD pipelines to streamline application delivery and operations.

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.
- Building, packaging, and deploying containerized applications.
- Kubernetes architecture and application orchestration.
- Designing and deploying cloud-native applications on Kubernetes.
- Application configuration, services, and workload management.
- Kubernetes networking and service discovery.
- Persistent storage and stateful application deployment.
- Helm chart development and application packaging.
- Container monitoring, logging, and health management.
- Containerized CI/CD pipelines and development automation.
- Testing, building, and releasing applications in Kubernetes environments.
- Best practices for secure, scalable, and high-performance cloud-native application development.

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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