

KUBERNETES APPLICATION ESSENTIALS (CN 120)

Course Code: 100816

Discover what makes an application on Kubernetes.

Whether your focus is on developing containerized applications or managing a container-centric infrastructure, this class 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.

What You'll Learn

- 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

Who Needs to Attend

This course is targeted at students with the following:

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

Prerequisites

- GK 100813 Docker Containerization Essentials (CN110) course or equivalent experience / knowledge
- 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

Jun 3 - 4, 2025 | 9:00 AM - 5:00 PM EST

Aug 26 - 27, 2025 | 9:00 AM - 5:00 PM EST

Nov 18 - 19, 2025 | 9:00 AM - 5:00 PM EST



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PRIVATE GROUP TRAINING

2 Day



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