

DEVOPS

INTERMEDIATE

5 DAYS

Certified Kubernetes Administrator (CKA)

Build a strong foundation in Kubernetes by understanding core concepts, cluster setup, and configuration. Learn how to deploy, manage, secure, scale, upgrade, and troubleshoot Kubernetes clusters to run production ready containerized applications.

Why CKA?

Gain expertise in Kubernetes

The CKA course helps the team understand the architecture, components, and deployment of Kubernetes, enabling them to manage your Kubernetes infrastructure effectively.

Improve application deployment and management

The CKA course teaches your team how to configure, deploy, and manage applications on Kubernetes clusters.

Better resource management

With the CKA course, your team can learn how to optimize resource allocation, monitor resource usage, and scale resources as needed.

Increase productivity and efficiency

The CKA course helps your team learn how to use Kubernetes effectively and leverage automation to save time and effort.

What you'll be able to do

- ✓ Understanding the core concepts of Kubernetes.
- ✓ Understanding the installation and configuration process of Kubernetes clusters.
- ✓ Managing and Securing Kubernetes clusters.
- ✓ Deploying and Managing applications on Kubernetes clusters.
- ✓ Understanding how to scale and upgrade Kubernetes clusters.
- ✓ Understanding how to troubleshoot common issues with Kubernetes clusters.

Who this is for

- IT professionals
- Developers
- DevOps engineers
- System administrators

Curriculum

01 Core Concepts

- Apply core concepts with Kubernetes in practical DevOps workflows
- Complete hands-on labs with realistic scenarios
- Validate outcomes, logs, and failure modes
- Capture reusable patterns for team standards

02 Installation, Configuration, and Validation

- Apply installation, configuration, and validation with Kubernetes in practical DevOps workflows
- Complete hands-on labs with realistic scenarios
- Validate outcomes, logs, and failure modes
- Capture reusable patterns for team standards

03 Application Lifecycle Management

- Apply application lifecycle management with Kubernetes in practical DevOps workflows
- Complete hands-on labs with realistic scenarios
- Validate outcomes, logs, and failure modes
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04 Scheduling

- Apply scheduling with Kubernetes in practical DevOps workflows
- Complete hands-on labs with realistic scenarios
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05 Networking

- Apply networking with Kubernetes in practical DevOps workflows
- Complete hands-on labs with realistic scenarios
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06 Storage

- Apply storage with Kubernetes in practical DevOps workflows
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07 Security

- Apply security with Kubernetes in practical DevOps workflows
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08 Cluster Maintenance

- Apply cluster maintenance with Kubernetes in practical DevOps workflows
- Complete hands-on labs with realistic scenarios
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09 Logging and Monitoring

- Apply logging and monitoring with Kubernetes in practical DevOps workflows
- Complete hands-on labs with realistic scenarios
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10 Troubleshooting

- Apply troubleshooting with Kubernetes in practical DevOps workflows
- Complete hands-on labs with realistic scenarios
- Validate outcomes, logs, and failure modes
- Capture reusable patterns for team standards