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# Kasten K10 training

2 days (14 hours)

## Presentation

Kasten is a data management platform designed specifically for Kubernetes. [Kasten by VEEAM](#) provides enterprise operations teams with a scalable, secure and easy-to-use system.

K10's application-centric approach and deep integrations with relational and NoSQL databases, Kubernetes distributions and all clouds give teams the freedom to choose their infrastructure without sacrificing operational simplicity.

Policy-driven and extensible, K10 provides a native Kubernetes API and includes features such as full-spectrum consistency, database integrations, multi-cloud mobility and a powerful web user interface.

Our Kasten training course will teach you how to restore the application components you want, where you want them. Clone an application in the same namespace or in a new namespace. You'll also learn how to restore only a subset of the application, such as the data volume.

On completion of this course, you'll be able to move an application across namespaces, clusters, accounts, regions and clouds. This enables a variety of use cases, including disaster recovery (DR), testing and development with realistic datasets, and performance testing in isolated environments.

Like all our training courses, this one will introduce you to the latest stable release and its new features: [Kasten K10 7.0](#).

## Objectives

- Backup and restore Kubernetes applications with Kasten K10

- Supervise backups with Grafana
- Set up alerts to anticipate incidents
- **Deploying and configuring Kasten K10 in a cluster via Helm**
- Secure access and permissions management with RBAC and OIDC
- Implement automated backup policies
- Ensuring disaster recovery (DR)

## Target audience

- System administrators
- DevOps engineers
- Cloud Architects
- Developer

## Prerequisites

- Completed our [Kubernetes training course](#) or [Kubernetes Advanced](#)
- Basic knowledge of data backup and recovery concepts
- Understanding of cloud architectures and principles of application deployment containerized environments

## Kasten K10 training program

### Backup and restore in Kubernetes

- Understand the fundamental concepts of data protection
- Discover Kasten K10 architecture and components
- Deploy and configure Kasten K10 in a Kubernetes cluster via Helm

### Managing business continuity and disaster recovery (DR)

- Understanding the challenges of disaster recovery and application resilience
- Automate failover and recovery in the event of an outage
- Simulate a disaster scenario to test the robustness of protection strategies

### Ensure workload mobility between clusters

- Migrate Kubernetes applications and workloads between different clusters
- Apply application transformations during migration

### Securing access and managing permissions

- Define and assign custom RBAC roles to control actions on Kasten K10
- Integrate an OIDC provider to authenticate users

## Deploying Kasten K10 in an air-gapped environment

- Understand security constraints in environments isolated from the Internet
- install Kasten10 in air-gapped mode
- Backing up Kubernetes applications to NFS storage

## Supervise and observe operations with Kasten K10

- Explore the metrics available for monitoring service status
- Create custom queries to analyze system performance and integrity
- Set up a Grafana dashboard to view metrics
- Set up alerts to anticipate incidents and anomalies
- Test email alerts for proactive notification

## Companies concerned

This course is aimed at both individuals and companies, large or small, wishing to train their teams in a new advanced computer technology, or to acquire specific business knowledge or modern methods.

## Positioning on entry to training

Positioning at the start of training complies with Qualiopi quality criteria. As soon as registration is finalized, the learner receives a self-assessment questionnaire which enables us to assess his or her estimated level of proficiency in different types of technology, as well as his or her expectations and personal objectives for the training to come, within the limits imposed by the selected format. This questionnaire also enables us to anticipate any connection or security difficulties within the company (intra-company or virtual classroom) which could be problematic for the follow-up and smooth running of the training session.

## Teaching methods

Practical course: 60% Practical, 40% Theory. Training material distributed in digital format to all participants.

## Organization

The course alternates theoretical input from the trainer, supported by examples, brainstorming sessions and group work.

## Validation

At the end of the session, a multiple-choice questionnaire verifies the correct acquisition of skills.

# Sanction

A certificate will be issued to each trainee who completes the course.