Updated 08/02/2024

Sign up

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 6.5.

Objectives

- Mastering the Kasten data management platform

- Restore application components
- Clone an application in the same space
- Restore a subset of the application, such as a volume of data
- Moving an application across namespaces, clusters, accounts, regions and clouds

Target audience

- System administrators
- DevOps engineers
- Cloud Architects
- Developer

Prerequisites

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

Kasten K10 training program

Introduction to Kasten

- Understand the principles of cloud-native architecture
- Introducing Kasten K10 and its importance in Kubernetes data protection
- Initial installation of Kasten K10
- Basic configuration of Kasten K10
- Exploring the Kasten user interface

Kasten K10 advanced features

- Application stack capture
- Customize consistency levels
- Using Kubernetes authentication features
- Authorization configuration and management with RBAC (role-based access control)
- Implementing end-to-end encryption
- Using advanced monitoring and log management functions

Advanced management and deployment

- Using automated protection strategies
- Deploy and use Kasten K10 via a management interface or cloud-native API
- Support for all major applications and data sources

- Operating Kasten K10 with various Kubernetes distributions (Red Hat OpenShift, Amazon EKS, VMware Tanzu, Azure AKS, Google GKE)
- Maximizing data protection with Kasten K10 on various platforms
  - Cloud storage (AWS, Google Cloud, Azure)
  - On-site environments (EMC, NetApp)

Kasten's policies

- Policy-based management
- Automatic policy configuration
- Default customization

Kasten K10 storage

- Using the Container Storage Interface (CSI)
- On-site or cloud-based file, block and object storage systems
- Direct integrations and pre-qualified integrations
- Relational and NoSQL systems

Kasten security

- OIDC protocol
- Multi-user authentication mechanisms
- RBAC role
- Encryption key
- Execution of appropriate actions
- Support for shared environments

Companies concerned

This training 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 training: 60% Practical, 40% Theory. Training material distributed in

to all participants.

Organization

The course alternates theoretical input from the trainer, supported by examples, with 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.