Updated on 10/17/2024

Sign up

Hashicorp Vault training

2 days (14 hours)

Presentation

Hashicorp Vault is the best tool for effectively securing your infrastructure in the cloud.

The migration of infrastructures to the cloud poses serious problems of security and loss of control. Hashicorp Vault offers a wide range of features to protect your data.

Today, these functions are indispensable, such as identity management, secret management, PKI certificates and encryption.

Our Hashicorp Vault training course will show you how Hashicorp Vault secures your data, how to install and configure the tool, basic and advanced features and how to integrate Vault with AWS.

As with all our training courses, this Hashicorp Vault course will introduce the latest version of the tool, Vault 1.18.

Objectives

- How to deploy HashiCorp Vault and all the components you will use
- How to configure and deploy key HashiCorp Vault services
- HashiCorp Vault core concepts
- How to store and manage your secrets in HashiCorp Vault

Target audience

- Developers
- Infrastructure engineer

- System administrators
- DevOps

Prerequisites

- Scripting skills (bash or powershell)
- Basic knowledge of AWS
- [Test My Knowledge]

Materials required

- A Linux command-line terminal (e.g. WSL , or Git Bash, ...)
- A recent web browser (e.g. Chrome)
- An AWS account (free account available)

Hashicorp Vault training program

Introduction to Vault

- What is HashiCorp Vault?
- How Vault works
- Benefits of using HashiCorp Vault

Understanding H. Vault architecture

- Its components
- Seal and Unseal
- Vault initialization
- Vault configuration file
- Storage backends
- The audit

Installing Vault

- Installing and starting the Vault server
- Running Vault in production
- Configuring the backend
- Configuring automatic Unseal

Authentication to Vault

- Introduction to Vault authentication

- Configuring authentication with the API and UI
- Choice of authentication methods

Vault policy management

- Introduction to Vault policies
- Managing Vault policies

Token evaluation

- Introduction to Vault tokens
- Token lifecycle control
- Token management

Configuring secret engines

- Introduction to the secret engine
- Working with Key/Value engines

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 enabling 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 with regard to 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, 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.