

# HashiCorp Vault

Duration: 3 Days (8 hours per day)

### Prerequisites: Basic Linux Knowledge Required

## Module 1 – Introduction to Vault

What is Vault? How Vault Works Why Organizations Choose Vault Benefits and Use Cases of Vault Comparing Versions of Vault

### Module 2 – Vault Architecture

Vault Components Vault Architecture and Pathing Structure Vault Data Protection Seal and Unseal Unsealing with Key Shards Unsealing with Auto Unseal Unsealing with Transit Auto Unseal Pros and Cons of Unseal Options Vault Initialization Vault Configuration File Storage Backends Audit Devices Vault Interfaces

# Module 3 – Installing Vault

Installing and Running Vault Server Running Vault Dev Server Running Vault Server in Production Configuring the Consul Storage Backend Configuring the Integrated Storage Backend

## Module 4 – Compare Authentication Methods

Introduction to Auth Methods Working with Auth Methods Configuring Auth Methods using the CLI Configuring Auth Methods using the API Vault Authentication using the API Using the API Explorer Vault Entities Vault Identity Groups Choosing an Auth Method Differentiate Human vs System Auth Methods AppRole Auth Method Okta Auth Method UserPass Auth Method

## Module 5 – Create Vault Policies

Introduction to Vault Policies Managing Policies using the CLI Managing Policies using the UI Managing Policies using the API Anatomy of a Vault Policy Vault Policies – Path Vault Policies – Capabilities



Customizing the Path Working with Policies Module 6 – Access Vault Tokens

Introduction to Vault Tokens Token Hierarchy Controlling the Token Lifecycle Periodic Tokens Service Tokens with Use Limits Orphan Tokens Setting the Token Type Managing Tokens using the CLI Managing Tokens using the UI Managing Tokens using the API Root Tokens Token Accessors Explaining Time to Leave (TTL) Create a Token Based on Use Cases

## Module 7 – Compare and Configure Secrets Engines

Static vs Dynamic Secrets Introduction to Secrets Engine Working with a Secrets Engine Configuring a Secrets Engine for Dynamic Credentials Key/Value Secrets Engine Working with KV Secrets Engine Encrypting Data with the Transit Secrets Engine Using the Transit Secrets Engine