Ondrej Sika DevOps

Course

Hashicorp Vault

Course Outline

- Introduction to Vault
    - What is Vault
    - Key features of Vault
    - Architecture and core concepts of Vault
- Setup of Hashicorp Vault
    - Local Vault for Development
    - Vault on VM
    - Vault on Kubernetes (official Helm chart)
    - Vault configuration
    - Vault encryption key setup (Shamir secret sharing)
- Vault Basics
    - Secret engines
    - Key Value engine
    - Working with secrets
    - Leases
- Secret Engines
    - DB (Postgres example)
    - AWS
    - Kubernetes
- User Management in Vault
    - Authentication methods
    - Local user management
    - Federated user management (using Kecloak)
    - Groups
- Access Control
    - ACL Policies
- Vault Agent
- Vault & Terraform
    - Vault configuration using Terraform
    - Example Terraform project / repo for Vault configuration
- Kubernetes Integration
    - Vault in Kubernetes
    - Kubernetes secrets in Vault
- Real world examples
    - Production configuration example