Boundary Enterprise IBM HashiCorp

Duration: 3 Days Course Code: 8H504G Delivery Method: Virtual Learning

Overview:

Boundary Enterprise is a comprehensive 3-day instructor-led course that teaches participants how to design, deploy, secure, operate, and scale HashiCorp Boundary Enterprise.

Through a combination of expert-led instruction and hands-on labs, attendees learn Zero Trust access principles, platform administration, credential management, Vault integration, observability, and enterprise-scale automation.

Designed for SREs, DevOps engineers, security teams, and platform operators, the course provides practical skills and proven best practices for implementing secure identity-based access across modern infrastructure.

Updated September 2026

Virtual Learning

This interactive training can be taken from any location, your office or home and is delivered by a trainer. This training does not have any delegates in the class with the instructor, since all delegates are virtually connected. Virtual delegates do not travel to this course, Global Knowledge will send you all the information needed before the start of the course and you can test the logins.

Target Audience:

This class is intended for the following participants:
- Site Reliability Engineers (SREs)
- DevOps Engineers
- Platform Engineers
- Cloud Engineers and Cloud Architects
- Systems Administrators
- Infrastructure Engineers
- Security Engineers

Objectives:

- **After completion of this course, learners will be able to:**
- Design, deploy, and operate HashiCorp Boundary Enterprise using proven enterprise architecture patterns and best practices.
- Configure secure access through authentication, identity provider integration, scopes, projects, and role-based access controls (RBAC).
- Manage targets, host catalogs, credentials, and connection workflows to deliver secure infrastructure access.
- Implement advanced security capabilities, including credential injection, credential brokering, dynamic secrets with Vault, and session monitoring.
- Monitor, scale, automate, and troubleshoot Boundary deployments to meet enterprise security, availability, and compliance requirements.

Prerequisites:

Recommended Prerequisites

- Basic experience using a command-line interface (CLI) in Linux, macOS, or Windows.
- Foundational understanding of cloud and infrastructure concepts, including servers, networking, and environments.
- Familiarity with identity and access management concepts such as users, groups, authentication, and authorization.
- Basic knowledge of Terraform and Infrastructure as Code (IaC).

Testing and Certification

- *None*

- Understanding of security concepts such as least privilege and Zero Trust principles.

Nice-to-Have

- Experience with HashiCorp Vault.
- Experience administering cloud infrastructure (AWS, Azure, or GCP).
- Familiarity with RBAC, IAM, or PAM solutions.
- Experience with DevOps, platform engineering, or security operations practices.

Follow-on-Courses:

- *None recommended*

Content:

Day 1: Foundations

- Boundary introduction, architecture, and core concepts
- Zero Trust security model and identity-based access
- Scopes, projects, roles, and access management
- Connection workflows (UI, CLI, API)
- Identity provider (IdP) integration
- Host discovery and resource management labs

Day 2: Deployment ; Administration

- Deploying and configuring Boundary Enterprise
- Platform architecture, HA, and disaster recovery
- Authentication, RBAC, users, groups, and projects
- Managing targets, host catalogs, and host sets
- Platform operations, monitoring, and observability
- Session recording and lifecycle management

Day 3: Advanced Operations ; Enterprise Features

- Credential management and credential brokering
- Credential injection and secretless access
- Vault integration for dynamic secrets
- Client agents and advanced connectivity workflows
- Multi-hop and transparent sessions
- Security hardening, compliance, and enterprise automation with Terraform

Additional Information:

Official course book provided to participants

Further Information:

For More information, or to book your course, please call us on 0800/84.009

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www.globalknowledge.com/en-be/