Boundary Enterprise IBM HashiCorp

Duration: 3 Days Course Code: 8H504G

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

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

Nice-to-Have

- Experience with HashiCorp Vault.

Testing and Certification

- *None*

- 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 00 20 (0) 2 2269 1982 or 16142

training@globalknowledge.com.eg

www.globalknowledge.com/en-eg/

Global Knowledge, 16 Moustafa Refaat St. Block 1137, Sheraton Buildings, Heliopolis, Cairo