

DEVOPS

INTERMEDIATE

4 DAYS

Terraform with AWS

Build a strong foundation in Infrastructure as Code using Terraform on AWS by mastering core concepts, CLI usage, and state management. Learn how to provision, integrate, and troubleshoot AWS infrastructure using advanced Terraform features and best practices for collaboration and scalability.

Why Terraform on AWS?

Simplified Infrastructure Management

Terraform makes it easier for businesses to manage their infrastructure resources on AWS.

Version Control

Allows businesses to track changes made to their infrastructure code over time.

Faster Infrastructure Provisioning: The time required to deploy new applications or services on AWS is reduced.

Cost Optimization

With the ability to define infrastructure resources with a specific configuration, businesses can optimize their AWS costs.

What you'll be able to do

- ✓ Understanding Infrastructure as Code (IAC) principles and benefits
- ✓ Familiarizing with the Terraform CLI and core concepts
- ✓ Defining and deploying infrastructure resources on AWS using Terraform
- ✓ Managing infrastructure state with Terraform's state management capabilities
- ✓ Applying Terraform's best practices, such as version control, testing, and collaboration
- ✓ Integrating Terraform with other AWS services
- ✓ Implementing advanced Terraform features
- ✓ Troubleshooting common issues and debugging Terraform code on AWS

Who this is for

- DevOps engineers
- Systems administrators
- Cloud engineers
- Infrastructure engineers
- Release engineers
- IT operations staff
- Developers who are involved in infrastructure management
- IT managers and leaders who are responsible for managing infrastructure resources.

Curriculum

01 IaC Foundations

- Apply iac foundations with Terraform on AWS in practical DevOps workflows
- Complete hands-on labs with realistic scenarios
- Validate outcomes, logs, and failure modes
- Capture reusable patterns for team standards

02 Terraform Basics

- Apply terraform basics with Terraform on AWS in practical DevOps workflows
- Complete hands-on labs with realistic scenarios
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03 AWS Provider Setup and Auth

- Apply aws provider setup and auth with Terraform on AWS in practical DevOps workflows
- Complete hands-on labs with realistic scenarios
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04 Provision AWS Infrastructure

- Apply provision aws infrastructure with Terraform on AWS in practical DevOps workflows
- Complete hands-on labs with realistic scenarios
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05 State Management

- Apply state management with Terraform on AWS in practical DevOps workflows
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06 Modules and Reuse

- Apply modules and reuse with Terraform on AWS in practical DevOps workflows
- Complete hands-on labs with realistic scenarios
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07 Terraform Cloud Deployments

- Apply terraform cloud deployments with Terraform on AWS in practical DevOps workflows
- Complete hands-on labs with realistic scenarios
- Validate outcomes, logs, and failure modes
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08 Debugging and Troubleshooting

- Apply debugging and troubleshooting with Terraform on AWS in practical DevOps workflows
- Complete hands-on labs with realistic scenarios
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09 Security Basics

- Apply security basics with Terraform on AWS in practical DevOps workflows
- Complete hands-on labs with realistic scenarios
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10 Best Practices

- Apply best practices with Terraform on AWS in practical DevOps workflows
- Complete hands-on labs with realistic scenarios
- Validate outcomes, logs, and failure modes
- Capture reusable patterns for team standards