

Migrate DevOps to GitHub

Course Overview

Duration - 12 Hours | Level - Intermediate

Migrate DevOps to GitHub is designed to help organizations migrate their code, issues, and pipelines securely to GitHub. The course covers everything from preparing your environment, understanding migration-supported elements, to validating post-migration readiness. It offers an end-to-end approach for moving repositories, setting up GitHub Actions workflows, enabling security features, and scaling agile management. Attend this course to gain a streamlined experience from migration planning to operational optimization with GitHub Enterprise Cloud.

Course Modules

Day 1

Introduction to GitHub

Overview of GitHub

GitHub Products: Free, Team, Enterprise

Core GitHub services for DevOps

Know Before You Go

Source vs Target Platforms

Migration-supported vs manually-configured elements

GitHub Organizations, Teams, Permissions, Branch Policies

Lift-and-shift vs Transformative migration

Migration best practices

Planning for migration

Decide migration scope: What to migrate? What to leave?

Inventory repositories, issues, pipelines, permissions

Hands on Labs

Set up GitHub Organization, create teams and roles

Create sample repositories, configure branch protections

Setup repo visibility

Day 2

Migration Tooling

GitHub Importer

GitHub CLI

GitHub Enterprise Importer

Work with migration tools

Architecture and workflows

Pre-checks and requirements - Personal Access Tokens, Repo size limits

Understand CI/CD translation: GitLab CI vs GitHub Actions Syntax

Move Code, Issues, and Pipelines

Manual and automated migration

Migrate a repo to GitHub using the command line

Migrate repositories using GitHub Importer

Migrate GitLab, Bitbucket, and Azure DevOps pipelines to GitHub Actions

Mitigate Common Migration Pitfalls

Permission mapping issues

Git Large File Storage migration considerations

Work Item migration gaps

Hands on Labs

Migrate a sample repo manually

Use GitHub CLI to automate a migration

Import Issues using GitHub API

Convert a simple GitLab CI or ADO pipeline to GitHub Actions

Day 3

Validate migration completeness and operational readiness

Verify Git history

Review Branch Protection and Access Settings

Compare Issues, PRs, Wikis

Secure Repositories Post-Migration

Enable GitHub Advanced Security

Set up branch protection, SSO, and audit logging

Optimize DevOps and scale Agile management

GitHub Actions best practices

Using Codespaces for faster dev onboarding

Using GitHub Projects for Agile planning

Using GitHub Insights and Metrics for repo health

Hands on Labs

Audit and validate migrated repositories

Configure GitHub Advanced Security for migrated repos

Enable Branch Protection Rules and fine-tune role permissions

Set up a GitHub Actions workflow post-migration