

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

Cloud Overview of GitHub

Cloud GitHub Products: Free, Team, Enterprise

Cloud Core GitHub services for DevOps

Know Before You Go

Cloud Source vs Target Platforms

Cloud Migration-supported vs manually-configured elements

Cloud GitHub Organizations, Teams, Permissions, Branch Policies

Cloud Lift-and-shift vs Transformative migration

Cloud Migration best practices

Planning for migration

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

Cloud Inventory repositories, issues, pipelines, permissions

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Cloud Set up GitHub Organization, create teams and roles

Cloud Create sample repositories, configure branch protections

Cloud Setup repo visibility

Cloud Create Personal Access Token (PAT) for CLI/API usage

Day 2

Migration Tooling

Cloud GitHub Importer

Cloud GitHub CLI

Cloud GitHub Enterprise Importer

Work with migration tools

Cloud Architecture and workflows

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

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

Move Code, Issues, and Pipelines

Cloud Manual and automated migration

Cloud Migrate a repo to GitHub using the command line

Cloud Migrate repositories using GitHub Importer

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

Mitigate Common Migration Pitfalls

Cloud Permission mapping issues

Cloud Git Large File Storage migration considerations

Cloud Work Item migration gaps

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Cloud Migrate a sample repo manually

Cloud Use GitHub CLI to automate a migration

Cloud Import Issues using GitHub API

Cloud Convert a simple GitLab CI or ADO pipeline to GitHub Actions

Day 3

Validate migration completeness and operational readiness

Cloud Verify Git history

Cloud Review Branch Protection and Access Settings

Cloud Compare Issues, PRs, Wikis

Secure Repositories Post-Migration

Cloud Enable GitHub Advanced Security

Cloud Set up branch protection, SSO, and audit logging

Optimize DevOps and scale Agile management

Cloud GitHub Actions best practices

Cloud Using Codespaces for faster dev onboarding

Cloud Using GitHub Projects for Agile planning

Cloud Using GitHub Insights and Metrics for repo health

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Cloud Audit and validate migrated repositories

Cloud Configure GitHub Advanced Security for migrated repos

Cloud Enable Branch Protection Rules and fine-tune role permissions

Cloud Set up a GitHub Actions workflow post-migration