

DevOps & Azure DevOps Master Course

Complete Curriculum: DevOps, Azure DevOps, Git, CI/CD, Terraform, & Test Automation

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1. Introduction to DevOps

- Understanding DevOps & Ecosystem
- DevOps Advantages & Market Trends
- DevOps Engineer Skills & Delivery Pipeline

2. Azure DevOps Overview

- What is Azure DevOps
- VSTS vs. Azure DevOps & Core Concepts
- Azure DevOps vs. TFS & Pricing Tiers

3. Configuring DevOps Org & Projects

- Creating Azure DevOps Organization & Team Projects
- Managing & Configuring Teams
- Cloning Git Repository into Team Projects
- Azure DevOps Marketplace Services
- Connecting via Web Portal and Visual Studio

4. Agile Planning & Tracking

- Agile Planning Tools & Project Backlog
- PowerPoint Storyboarding
- Sprint Planning & User Stories
- Capacity Planning & Stakeholder Sharing
- Kanban & Task Boards Progress Tracking
- Querying Items

5. Azure Repos & Git Workflows

- Git Intro, Workflow & Core Concepts
- Local/Remote Repository Management
- Staging, Committing, Branching & Pull Requests
- Merge vs. Rebase & Remote Sync
- Visual Studio, CLI & Hosting Repos

8. Introduction to Terraform

- What is Terraform & How it Works
- Terraform Lifecycle

9. Terraform Core Concepts

- Providers, Resources, & State
- Types in Terraform & Loops

10. Terraform Modules

- Understanding Modules & Benefits
- Creating and Using Modules

11. Terraform with Azure

- Preparing Azure Environment & Configurations
- Managing Azure Resources
- Best Practices for Azure Infrastructure

12. Automated Functional & Load Testing

- Configuring Infrastructure for Testing
- Executing UI Tests
- Load and Performance Testing in Azure

13. Azure Test Plans

- Test Types & Microsoft Test Manager
- Test Plans, Test Suites, & Test Cases
- Manual Testing via Test Runner & Shared Steps
- Bug Work Items & Impact Analysis

14. Azure Artifacts & Extensions

- Create, Host, Share & Protect Packages
- Installing & Using Azure DevOps Extensions

6. Azure Pipelines & Release Automation

- Core Concepts: Agents, Artifacts, Pipelines
- Visual Designer & YAML Pipeline Setup
- Build & Deploy .NET Core Applications
- Customizing Builds, Attributes & Triggers
- Automated Release Pipelines

7. Maintaining Code Quality

- Importance of Code Quality
- Unit Testing & Code Coverage
- Code Clone Analysis