

Enable Developer Productivity & Accelerate Delivery (1/2)

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Getting started

Overview

What is your challenge?

- You want to understand how Microsoft Dev tools can help optimise the developer experience and accelerate developer productivity.

Areas this could apply to:

- Azure DevOps
- GitHub
- Visual Studio
- GitHub Copilot
- GitHub Codespaces
- GitHub Advanced Security
- GitHub Enterprise Cloud
- Azure Load Testing
- Microsoft Dev Box
- Azure Pipelines

Certifications to Consider

- 1 AZ-900 Azure Fundamentals Course
- 2 AI- 900 Azure AI Fundamentals Course
- 3 AZ-104 Azure Administrator Course Pathway
- 4 AZ-204 Azure Developer Course Pathway
- 5 AZ-400 Azure DevOps Engineer Course Pathway
- 6 AZ-305 Solutions Architect Course Pathway

Microsoft Virtual Training Days

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Microsoft Learn Collections

GitHub Actions

Collection

Training Resources

- Automate development tasks by using GitHub Actions
- Build continuous integration (CI) workflows by using GitHub Actions
- Leverage GitHub Actions to publish to GitHub Packages
- Create and publish custom GitHub actions
- Build and deploy applications to Azure by using GitHub Actions
- Manage GitHub Actions in the enterprise

GitHub Advanced Security

Collection

Training Resources

- Introduction to GitHub Advanced Security
- Configure Dependabot security updates on your GitHub repo
- Configure and use secret scanning in your GitHub repository
- Configure code scanning on GitHub
- Identify security vulnerabilities in your codebase with CodeQL
- Code scanning with GitHub CodeQL
- GitHub administration for GitHub Advanced Security
- Manage sensitive data and security policies within GitHub

Develop in the Cloud with Microsoft Dev Box

Collection

Training Resources

- Announcing Microsoft Dev Box preview
- What is Microsoft Dev Box
- Quickstart: Configure Microsoft Dev Box
- Tutorial: Use a Remote Desktop client to connect to a dev box
- Manage a dev box by using the developer portal
- Microsoft Dev Box – Official Site

Explore GitHub Advanced Security for Azure DevOps

Collection

Training

- Modernize .NET and Java apps
- AZ-204: Implement Azure App Service web apps
- Deploy a Java web app to Azure App Service

Documentation

- Quickstart: Deploy an ASP.NET web app
- Quickstart: Create a Java app on Azure App Service
- Configure an ASP.NET app for Azure App Service
- Configure a Java app for Azure App Service

Videos/Shows/Other

- Deploying a Java App to Azure App Service using GitHub Actions
- Azure App Service

Explore Azure DevOps to Streamline your Development Process

Collection

Training

- AZ-400: Get started on a DevOps transformation journey
- Enable DevSecOps with Azure and GitHub
- What is Azure DevOps?
- Security in DevOps (DevSecOps)

Other

- A Software Engineer's Guide to DevOps
- Azure DevOps Blog
- Integrate security into your developer workflow with GitHub Advanced Security for Azure DevOps

GitHub Administration

Collection

Training

- Introduction to GitHub administration
- Introduction to GitHub's products
- Maintain a secure repository by using GitHub best practices
- Manage sensitive data and security policies within GitHub
- Authenticate and authorize user identities on GitHub
- GitHub administration for enterprise support and adoption
- Manage GitHub Actions in the enterprise
- Leverage GitHub Actions to publish to GitHub Packages

Publish a web app to Azure with Visual Studio

Collection

Documentation

- What is Visual Studio?
- What is the GitHub Copilot extension for Visual Studio?
- Create a new project in Visual Studio

Training

- Introduction to Visual Studio
- Install and configure Visual Studio Code
- Use Visual Studio for modern development
- Learn Live: Publish a web app to Microsoft Azure with Visual Studio
- Visual Studio – Official Site

30 Days to Learn it Challenge

30 Days to Learn It can help you build skills and start your preparation for Microsoft Certifications. Select your challenge below.

[Azure Developer](#)

[DevOps Engineer](#)

[Java Developer on Azure](#)

Enable Developer Productivity & Accelerate Delivery (2/2)

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The DevOps Lab



Automate your Azure deployments by using Bicep and GitHub Actions



Let's Learn .NET



Introduction to Git

Azure Connected Learning Experience

Microsoft Azure Connected Learning Experience (CLX) is an experiential training program that sets a trajectory for aspiring learners and working professionals to be Azure experts. The CLX program offers a personalized journey that aims to optimize learning experience while maximizing return on time invested.

[Click Here](#)

Build Community-Driven Software Projects



Learn how GitHub enables you to build communities that foster communication and collaboration while reinforcing recommended guidelines, codes of conduct, and security best practices.

- Introduction to GitHub
- Manage an InnerSource program by using GitHub
- Create an open-source program by using GitHub best practices
- Upload your project by using GitHub best practices
- Migrate your repository by using GitHub best practices
- Maintain a secure repository by using GitHub best practices
- Contribute to an open-source project on GitHub

Manage the lifecycle of your products



Take full control of your GitHub projects. Through work planning and tracking, effective branching strategies, and extending GitHub through its API.

- Introduction to GitHub
- Manage software delivery by using a release-based workflow on GitHub
- Manage repository changes by using pull requests on GitHub
- Settle competing commits by using merge conflict resolution on GitHub
- Automate DevOps processes by using GitHub Apps
- Search and organize repository history by using GitHub

Development for enterprise DevOps



Examine the key Git features that organizations must plan for when designing their enterprise DevOps..

- Structure your Git Repo
- Manage Git branches and workflows
- Collaborate with pull requests in Azure Repos
- Identify technical debt
- Explore Git hooks
- Plan foster inner source
- Manage Git repositories

Get started on a DevOps transformation journey



Understand what DevOps is and how to plan for a DevOps transformation journey.

- Introduction to DevOps
- Choose the right project
- Describe team structures
- Choose the DevOps tools
- Plan Agile with GitHub Projects and Azure Boards
- Introduction to source control
- Describe types of source control systems
- Work with Azure Repos and GitHub

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