

WorkshopPLUS - Essentials on Azure DevOps Services and GitHub

WorkshopPLUS

Focus Area: Upgrade, Migration, and Deployment

Duration: 3 Days [Onsite / Remote]
Difficulty: 300 - Advanced

Description

The Azure DevOps Services: Essentials WorkshopPLUS is a three-day, instructor-led training course that provides participants with the fundamental knowledge that is required to use Azure DevOps Services.

Best practices for working with version control, work items, and automated builds and deployments will be discussed in detail. Proficiency in these three areas is the key to unlocking the full potential of your software development efforts and becoming skillful with DevOps practices.

Objectives

- Gain a deeper understanding of how to use Visual Studio and Azure DevOps Services to maximize team collaboration, project transparency, software quality, and overall DevOps maturity.
- Understand best practices for working with Azure Repos, Azure Pipelines and Artifacts, and Azure Boards.
- Become a successful Visual Studio and Azure DevOps Services user.

Methodology

Hands-on labs

Most of the concepts covered will be supported by hands-on labs and demos.

Agenda

Day 1

- Introduction to DevOps
- Projects
- Azure Repos – Git (or) Azure Repos – Team Foundation Version Control

Day 2

- Azure Pipelines
- Azure Artifacts
- Azure Boards – Work Items

Day 3

- Azure Boards – Plan and Track Projects
- Collaboration, Reporting, and Extensions
- Open-Source Software (OSS)

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Delivery Outline

Requirements	

Participants
▪ Developers
▪ Team members who use Visual Studio and Azure DevOps services
Skill requirements
▪ This WorkshopPLUS includes content that is targeted at developers, but it is also beneficial to all team members that use Visual Studio and Azure DevOps Services.
Time commitment
▪ Plan for three full days. Early departure on any day is not recommended.
	Delivery requirements
	▪ Microsoft/Windows Live ID to connect to the virtual environment
	▪ Hardware running:
	  ▪ Supported version of Windows
	  ▪ Supported version of Office
	  ▪ Modern browser, such as Microsoft Edge (or equivalent)
	▪ Internet access
	▪ Azure DevOps organization.
	▪ Visual Studio Enterprise

Education		
Day 1	**Module 1: Introduction to DevOps**	• DevOps Overview • Azure DevOps Services
Day 1	**Module 2: Projects**	• Hierarchy of Azure DevOps Services • Projects • Understanding Teams and Team Explorer • Process
Day 1	**Module 3: Azure Repos: Git**	• Git Overview • Develop and Collaborate by Using Git • Use Branches
Day 1	**Module 4: Team Foundation Version Control**	• TFVC Overview • Develop by Using TFVC • Collaborate by Using TFVC • Use of Branches
Day 2	**Module 5: Azure Pipelines**	• Introduction to Azure Pipelines • Azure Pipelines Agents, Azure Pipelines YAML • Build and Release Pipelines (classic) • Library
Day 2	**Module 6: Azure Artifacts**	• Package Management • NuGet • Azure Artifacts
Day 2	**Module 7: Azure Boards: Work Items**	• Work Item Fundamentals • Work Item Queries • Customizing Work Items
Day 3	**Module 8: Azure Boards: Plan and Track Projects**	• Agile Planning Tools • Kanban Tools • Agile Portfolio Management • Charts, Dashboards, and Widgets
Day 3	**Module 9: Collaboration, Reporting, and Extensions**	• Collaboration – Wiki, Feedback • Dashboards and Reports • Service Hooks and Extensions
Day 3	**Module 10: OSS**	• Azure DevOps Services and Open-Source Software (OSS)

For more information: Contact your Microsoft Representative for more details.

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