



Azure DevOps Training Workshop

Overview

What is Azure DevOps

Microsoft released Azure DevOps Services and Azure DevOps Server towards the end of 2018. Azure DevOps Services which will replace the hosted Visual Studio Team Services (VSTS) and Azure DevOps Server will replace on-premises Team Foundation Server (TFS). Azure DevOps scales to any platform, and any language, is extendable and can work with any cloud. It is not just limited to cloud; it can be leveraged in on-premises and/or hybrid solutions giving you the ability to deploy to your environment no matter how it is hosted.

Objectives

At the completion of this training workshop candidates will have a basic understanding of the following areas:

- Current features in Azure DevOps
- Product backlog and sprint backlog
- Test plans, test suites and test cases
- Adding code to a repository
- Planning and configuring build pipelines
- Configuring Continuous Integration (CI) builds as well as scheduling builds
- Automating execution of unit tests as part of our build
- Release Management
- Using Release Management to create and manage releases
- Configuring Continuous Deployment by triggering releases from builds
- How to connect to 3rd party services
- Configuring security models

Duration

This training schedule is a 1-day workshop that is presented on-site at your premises.

Contents

1. Overview of DevOps using Azure DevOps
 - Brief overview of DevOps as a concept and Azure DevOps
2. Agile Planning using Azure Boards
 - Creating, managing and grooming the product backlog
 - Planning a sprint
3. Test planning using Azure Test Plans
 - Setting up a test plan
 - Running manual tests
4. Managing source code using Azure Repos
 - GIT:
 - i. Create, Clone, Commit, Push, Pull
 - ii. Pull requests
 - iii. Branching and merging

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- TFVC:
 - i. Workspaces
 - ii. Check-in, Check-Out
 - iii. Branching and merging
- Branching Strategies
- 5. Azure Pipelines
 - Build
 - i. Working with build agents
 - ii. Creating a new build definition
 - iii. Working with variables
 - iv. Scheduling the builds
 - v. Working with build policies
 - vi. Continuous quality evaluation
 - Release
 - i. Deployment Group overview
 - ii. Working in phases
 - iii. Manual and Automated approvals
 - iv. Working with variables
 - v. Scheduling releases
 - Overview of Task Groups
 - Overview of Secure files
 - Overview of Variable Group
- 6. Administering Azure DevOps
 - Licensing and Access levels
 - Extending Azure DevOps from the market place
 - Using service end points
 - Connect Azure DevOps to 3rd party applications
 - Security Overview

About the trainer

All training session are presented by Niel Zeeman the founder and owner of Team Foundation Consulting.

Niel is a subject matter expert and has been providing consulting and training on all things ALM and DevOps since 2010. He is an ETDP certified trainer, a Microsoft ALM MVP and he maintains the Microsoft MCSD ALM certification.



Niel has facilitated training sessions and workshops with hundreds of delegates throughout South Africa.

All training conducted is geared towards being as interactive as possible while balancing the need to demonstrate the content covered.

