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Register

Azure Devops Training

3 days (21 hours)

Overview

Azure DevOps Services is a Microsoft platform designed to replace Visual Studio Team Services (VSTS). This platform is a cloud version hosted in a Microsoft Azure data center.

Azure DevOps Services helps manage and streamline the development and delivery of complex software projects. It enables rapid setup, maintenance-free operations, easy cross-domain collaboration, elastic scaling, and robust security.

Our Azure DevOps Services training will teach you how to master typical Azure DevOps tasks and manage your developments using Git and the TFVC version controller. You will learn how to explore automated builds and automated deployment. You will be able to effectively manage your projects with Scrum and Kanban to ensure the quality of your deliverables.

By the end of this training, you will know how to develop and deliver high-performance, functional software.

Objectives

- Create and deploy applications using Azure DevOps services
- Master all Azure DevOps services (Artifacts, Pipelines, Boards, Test Plans)
- Integrate a test campaign
- Create delivery pipelines
- Administer projects and users

Target audience

- Developers
- Architects
- Testers
- Project managers

Prerequisites

- Basic knowledge of Azure DevOps
- Experience in .NET

Software prerequisites

- Have an Azure account as an administrator with an Azure DevOps organization
- Declare private use of Azure pipelines

Our Azure DevOps training program

Introduction to Azure DevOps

- What is Azure DevOps?
- Components of a software factory
- Difference between Azure DevOps Services and Server
- Integration with Visual Studio

Azure DevOps

- Connecting Azure DevOps to Azure Active Directory
- Adding a guest user to an Azure DevOps project
- Managing and assigning user licenses
- Pricing
- Permission management

Creating an ADS project

- Project structure
- Administration tools
- User types
- Continuous integration services
- Continuous delivery CI/CD
- Security and Azure Active Directory
- Adding users using Microsoft accounts
- Account types, features, and billing
- Azure DevOps Services with Docker

Azure Repos: Source code management

- Git and Team Foundation Version Control
- Git and Azure DevOps
- Create a project and initialize the repository
- Connecting Visual Studio to a Git repository in Azure DevOps
- Azure Repos web interface
- Share changes to the server
- Branch and merge

Azure DevOps pipelines and builds

- Create a build definition
- Build variables and extensions
- Triggers and continuous integration
- Creating a release definition
- Deploy database changes with EF Migration
- Build and Release metadata variable
- Multi-stage and multi-environment deployment
- Installing a self-hosted Pipeline agent in the data center

Azure Boards

- Track work with boards
- Kanban boards
- Scrum & Agile
- Dashboards
- Backlogs
- Workflow
- Custom reports

Azure Artifacts

- Share packages
  - Maven
  - npm
  - NuGet
- Public sources/private sources
- Integrate package sharing into pipelines

Azure Test Plans: Exploratory testing

- Introduction
- Test and Feedback browser extension
- Create tests in 4 different ways
- Running test scenarios
- Testing with Visual Studio
- UI testing
- Testing web or desktop applications

- Screenshots during test execution
- Creating a video recording

Migrating projects to Azure DevOps

- Options for migrating to Azure DevOps
- Migrating from GitHub to Azure DevOps
- Migrating from Git to Azure DevOps
- Migrating from TFVC to Git
- Migrating from TFVC to TFVC on Azure DevOps

Target companies

This training is intended for both individuals and companies, large or small, wishing to train their teams in new advanced IT technologies or to acquire specific business knowledge or modern methods.

Placement at the start of training

The positioning at the start of the training complies with Qualiopi quality criteria. Upon final registration, the learner receives a self-assessment questionnaire that allows us to assess their estimated level of proficiency in different types of technologies, as well as their expectations and personal objectives for the upcoming training, within the limits imposed by the selected format. This questionnaire also allows us to anticipate certain connection or internal security issues within the company (intra-company or virtual classroom) that could be problematic for the monitoring and smooth running of the training session.

Teaching methods

Practical training: 60% practical, 40% theory. Training materials distributed in digital format to all participants.

Organization

The course alternates between theoretical input from the trainer, supported by examples and discussion sessions, and group work.

Assessment

At the end of the session, a multiple-choice questionnaire is used to verify that the skills have been correctly acquired.

Certification

A certificate will be issued to each trainee who has completed the entire training course.

Training organization registered under number 11 75 54743 75. This registration does not constitute state approval.
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