

ASSESSMENT

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DATE-8/01/2024

AZURE DEVOPS:

The term DevOps originates from the fusion of two words, Development, and Operations. DevOps can have different meanings to different people and organizations.

1. According to Amazon Web Services (AWS): Amazon Web Services (AWS) DevOps is the combination of cultural philosophies, practices, and tools that increases an organization's ability to deliver applications and services at high velocity: evolving and improving products at a faster pace than organizations using traditional software development and infrastructure management processes.
2. According to Microsoft: DevOps is the union of people, processes, and products to enable continuous delivery of value to our customers.

SERVICES USED IN AZURE DEVOPS:

Azure DevOps is a platform that will make it easier and more efficient to implement a DevOps-based solution in your organization. It contains a range of services that cover the complete software development life-cycle. These are:

AZURE BOARDS:

Azure Boards is a tool that helps teams plan, track, visualize, and discuss the work that needs to be done. It offers four different processes to choose from:

- CMMI
- Scrum
- Agile
- Basic

AZURE PIPELINES:

Azure Pipelines is a cloud service that can be used to automatically build, test, and deploy any code project. It is a cloud-agnostic CI/CD platform with support for containers or Kubernetes and works with any language or project type.

AZURE REPOS:

Azure Repos provides unlimited, cloud-hosted private, and public Git repos.

AZURE ARTIFACTS:

Azure Artifacts lets you create, host, and share packages. It also provides integrated package management with support for Maven, npm, Python, and NuGet package feeds from public or private sources.

AZURE TEST PLANS:

Azure Test Plans provides manual and exploratory testing solutions. Azure DevOps is also compatible with various third-party tools.

Azure DevOps is flexible, platform-agnostic, and cloud-agnostic. This means that you don't have to use all the services provided by Azure and Azure DevOps for your needs. You can choose the best services according to your requirements without any trouble. Azure DevOps is not platform dependent i.e. it doesn't matter whether you are using Windows/Linux/Mac or whether you use .NET, C/C++, Python, or any other language for your development, Azure DevOps is compatible with almost all platforms, and languages. The story does not end here, it also does not matter whether you deploy your software to [Azure](#), [AWS](#), or [GCP](#), continuous delivery is supported by all these cloud services.