

Azure DevOps services

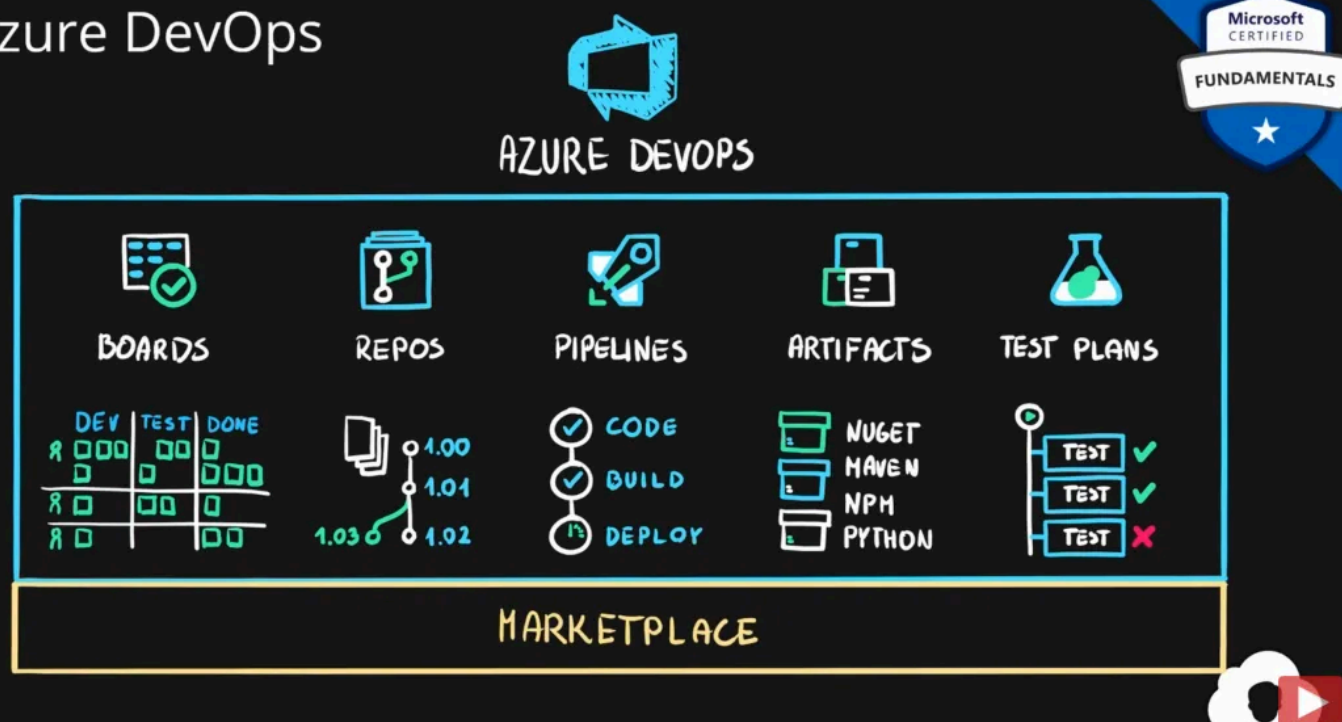
Skills Learned

- Describe DevOps solutions available on Azure such as
 - Azure DevOps and
 - Azure DevTest Labs

DevOps is a set of practices that combine both development (Dev) and operations (Ops).

DevOps aims to shorten the development life cycle by providing continuous integration and delivery (CI/CD) capabilities while ensuring high quality of deliverables.

Azure DevOps



Key Characteristics

- Collection of services for building solutions using DevOps practices
- Services included
 - Boards – tracking work
 - Pipelines – building CI/CD workflows (build, test and deploy apps)
 - Repos – code collaboration and versioning with Git
 - Test Plans – manual and exploratory testing
 - Artifacts – manage project deliverables
- Extensible with Marketplace – over 1000 of available apps
- Evolved from TFS (Team Foundation Server), through VSTS (Visual Studio Team Services)



Azure DevTest Labs

Azure DevTest Labs

DEVELOPERS
TESTERS

DEVTEST LABS

ADMINS



VM

OPERATING
SYSTEM

+ ARTIFACTS

VISUAL
STUDIO 7ZIP GIT



VM

OPERATING
SYSTEM

+ ARTIFACTS

VISUAL STUDIO CODE



VM

OPERATING
SYSTEM

+ ARTIFACTS

DOTNET DOCKER

OPERATING
SYSTEM
✓ WINDOWS 10
✓ LINUX UBUNTU LTS
✗ ORACLE
VM SIZES
QUOTAS

Dashboard > Resource groups > az-900-devops > az-900-devtest-labs >

Choose a base

	Visual Studio Community 2017 on Windows 10 Enterprise N (x64)	Microsoft	Windows
	Visual Studio Enterprise 2015 Update 3 with Universal Windows Tools and Azure S...	Microsoft	Windows
	Visual Studio Enterprise 2017 (latest release) on Windows 10 Enterprise N (x64)	Microsoft	Windows
	Visual Studio Enterprise 2017 on Windows 10 Enterprise N (x64)	Microsoft	Windows
	Windows 10 Enterprise, Version 1903	Microsoft	Windows
	Windows 10 Enterprise N, Version 1903	Microsoft	Windows
	Windows 10 Enterprise multi-session, Version 1903	Microsoft	Windows
	Windows 10 Pro, Version 1903	Microsoft	Windows
	Windows 10 Pro ZH-CN, Version 1903	Microsoft	Windows
	Windows 10 Pro N, Version 1903	Microsoft	Windows
	Windows 10 Enterprise, Version 1909	Microsoft	Windows
	Windows 10 Enterprise N, Version 1909	Microsoft	Windows
	Windows 10 Enterprise multi-session, Version 1909	Microsoft	Windows

Feedback

⚠ Applying artifacts on small sized (1 core) Windows VMs may take a longer time or fail in certain cases

1 artifact(s) selected

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Name	Description	Publisher
Service Fabric SDK and Tools	Installs the latest available version of the Microsoft Azure Service Fa...	Microsoft
Visual Studio	Installs Visual Studio	Microsoft
Visual Studio Code	Installs the latest stable version of Visual Studio Code.	rchaganti

OK

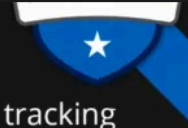


Key Characteristics



- Service [sandbox environment](#) for [developers/testers](#) (PaaS)
- Quick setup of [self-managed virtual machines](#)
- [Preconfigured templates](#) for VMs
- Plenty of additional [artifacts](#) (tools, apps, custom actions)
- Lab [policies](#) (quotas, sizes, auto-shutdowns)
- [Share](#) and [automate](#) labs via custom images
- Premade plugins/API/tools for [CI/CD pipeline automation](#)

Summary



- [Azure DevOps](#) – end to end platform for building CI/CD pipelines, code versioning, tracking work and managing project deliverables
- [Azure DevTest Labs](#) – cloud-based environments for developers and testers with self-serve environments, reusable templates, cost management and multiple integrations