



# Becoming a Microsoft Azure Administrator

Sprinkle Some Azure DevOps on It



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## Agenda



Clarify DevOps basics

Examine the Azure DevOps product family

Evaluate the Azure Administrator job role in an Azure DevOps organization



## Seminar Series Overview



Shifting Your  
Paradigm



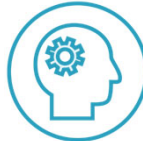
Get Up to Speed with  
Azure IaaS



Get Up to Speed with  
Azure PaaS



Sprinkle Some Azure  
DevOps on It



Skills Development:  
Theory and Practice



Skills Development:  
Certification



## Session Materials

[timw.info/admin](http://timw.info/admin)





"Sprinkle a Little DevOps On It"

Donovan Brown, Principal DevOps  
Manager, Azure Cloud Advocates Team,  
Microsoft

[timw.info/db](https://timw.info/db)



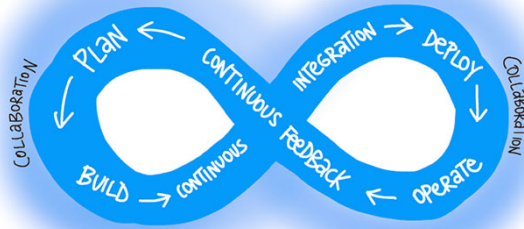


# DevOps Basics

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# DevOps

The union of people, process, and products to enable continuous delivery of value to your end users.



[timw.info/dodef](http://timw.info/dodef)

## DevOps Personas

Developer

Operations

Q/A

Security



# DevOps: The Three Ways

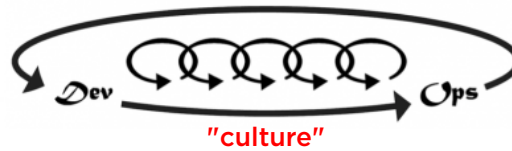
The First Way:  
Systems Thinking



The Second Way:  
Amplify Feedback Loops

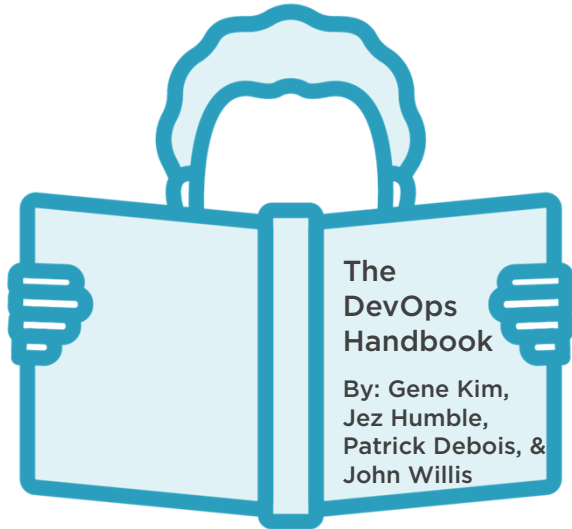


The Third Way:  
Culture Of Continual Experimentation And  
Learning



[timw.info/ttw](http://timw.info/ttw)

## DevOps Required Reading





# Lightning Tour of Azure DevOps

## Azure DevOps Products



Azure DevOps

Cloud-hosted  
Instantly scalable  
Predictable performance

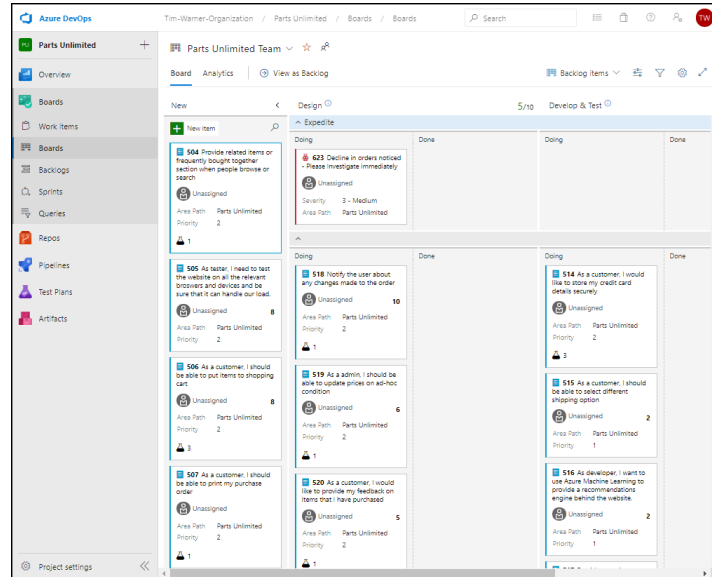


Azure DevOps Server 2019

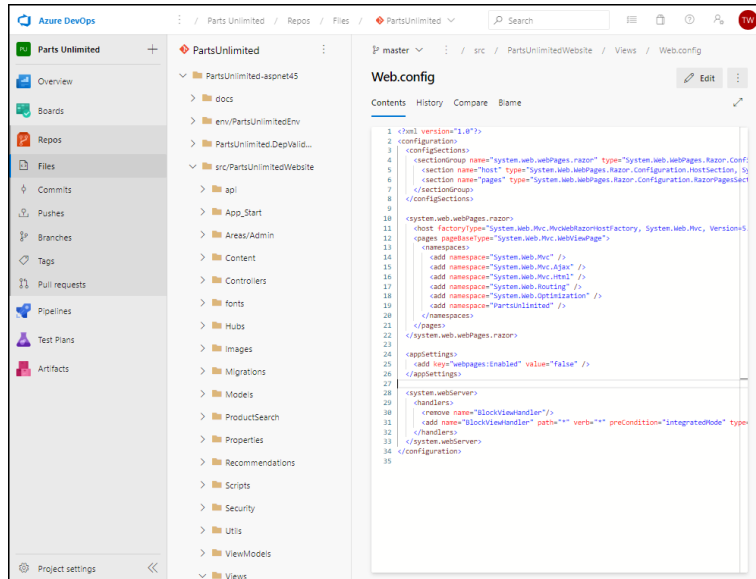
Locally hosted  
Manually scalable  
Potentially unpredictable  
performance



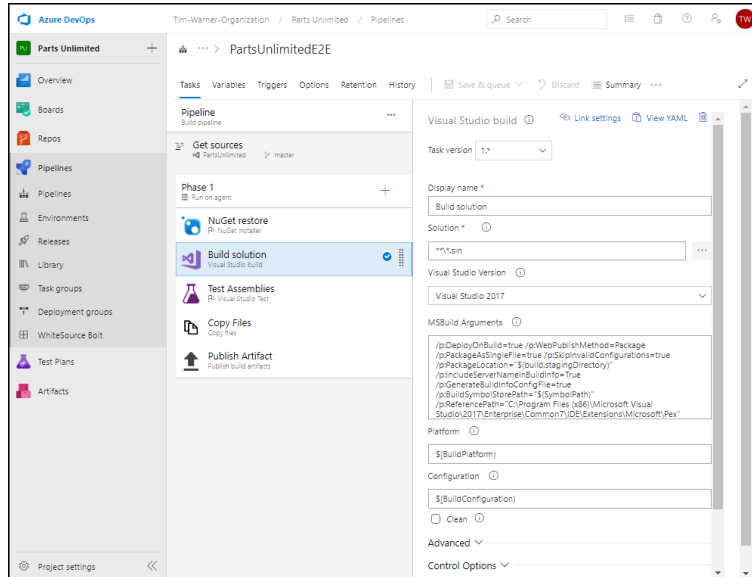
# Azure Boards



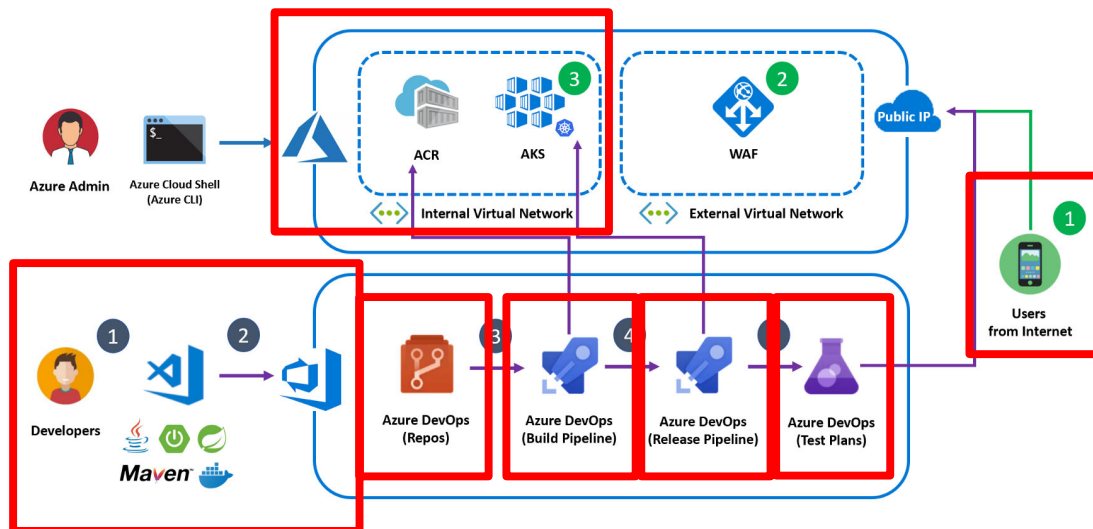
# Azure Repos



# Azure Pipelines



# Azure Pipelines

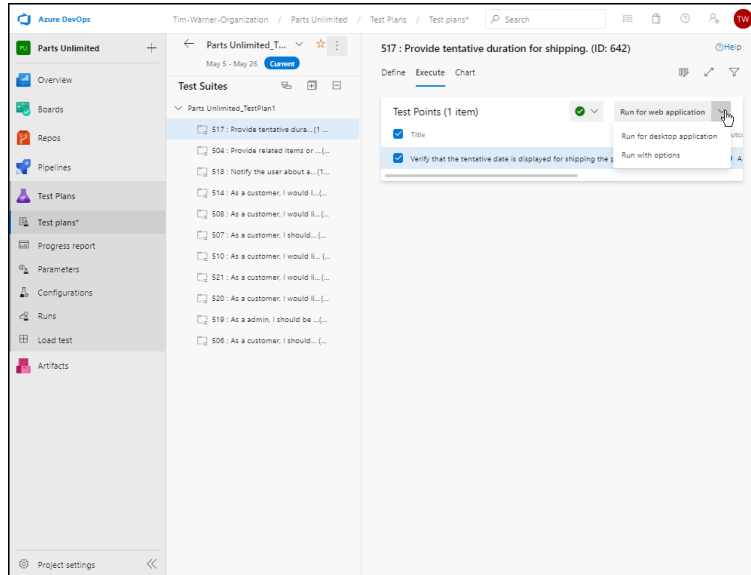


[timw.info/azpe](https://timw.info/azpe)





# Azure Test Plans



# Azure Artifacts

Connect to feed...  
tim0683

NuGet

dotnet

NuGet.exe

Visual Studio

npm

npm

Maven

Maven

Gradle

Python

PIP pip

twine

Universal

Universal packages

Project settings

NuGet.exe  
Command line reference

First time using Azure Artifacts with NuGet.exe on this machine? [Get the tools](#)

**Project setup**  
Add a `nuget.config` file to your project in the same folder as your `.csproj` or `.sln` file

```
<?xml version="1.0" encoding="utf-8"?>
<configuration>
  <packageSources>
    <clear />
    <add key="tim0683" value="https://pkgs.dev.azure.com/tim-warner-organization/_packaging/tim0683/nuget/v3/index.json" />
  </packageSources>
</configuration>
```

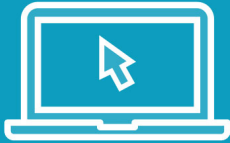
**Restore packages**  
Run this command in your project directory

```
nuget.exe restore
```

**Publish packages**  
Publish a package by providing the package path, an API Key (any string will do), and the feed URL.

```
nuget.exe push -Source "tim0683" -ApiKey az -packagePath
```

Demo



1

Demonstrate an Azure DevOps CI/CD pipeline





# Azure Administrator Role in Azure DevOps

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## Relevant Azure Administrator Skills

Defining build and  
release agent VMs

Managing Azure  
Key Vault secrets

Securing and  
backing up  
releases

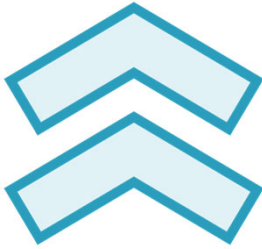
Automating the  
deployment  
infrastructure

Coexisting with  
devs in Repos 😊

Managing RBAC  
access



## Building a Learning Plan



**Pluralsight**

Azure Administrator  
Role IQ and Skill IQs



**AzureDevOpsLabs.com**



**Practice exams**

Whizlabs  
MeasureUp  
CyberVista



Demo



2

<if there's time>

Demonstrate Azure DevOps Demo  
Generator and Azure DevOps Labs

Show Pluralsight Azure DevOps courses



Questions?





## What's Next



Shifting Your  
Paradigm



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DevOps on It



Get Up to Speed with  
Azure IaaS



**Skills Development:**  
**Theory and Practice**



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## Session 4 Homework



Study the Pluralsight course *Continuous Delivery and DevOps with Azure DevOps: The Big Picture* ([timw.info/tpb](https://timw.info/tpb))



Create a free Azure DevOps course and use the Azure DevOps Demo Generator ([timw.info/dgen](https://timw.info/dgen))



Work through some labs at [AzureDevOpsLabs.com](https://AzureDevOpsLabs.com) ([timw.info/adl](https://timw.info/adl))





# Thanks so much!

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