tags: `workshop` `Azure DevOps` `App Service`
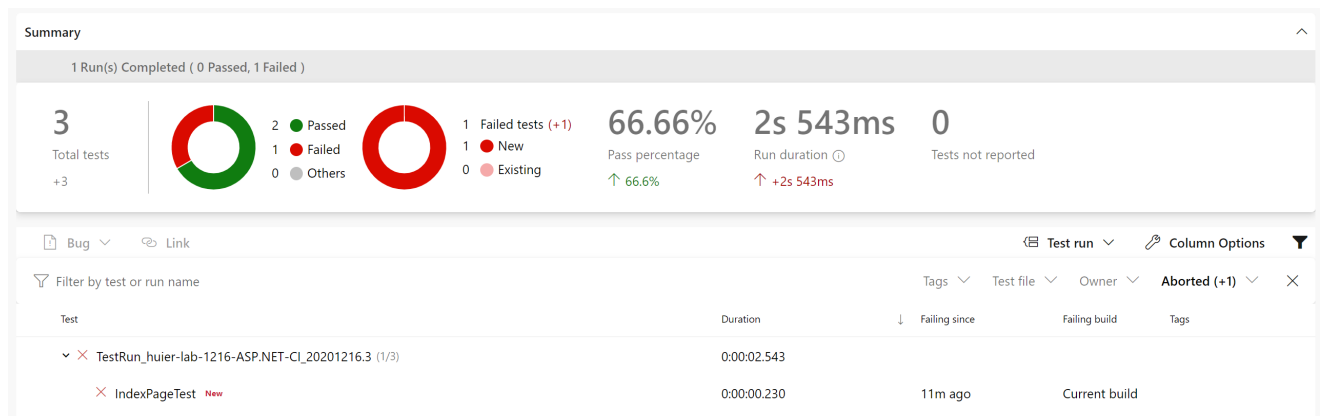
Hands-on 3 : Azure DevOps Service

Link

- [Azure DevOps](https://dev.azure.com/) (https://dev.azure.com/)
- [Azure Portal](https://portal.azure.com) (https://portal.azure.com)
- [Sample Code (ASP .NET Core)](https://github.com/huier23/AspNetCoreSample.git) (https://github.com/huier23/AspNetCoreSample.git)
- [HelloWorld.Lib](https://github.com/huier23/HelloWorld.Lib.git) (https://github.com/huier23/HelloWorld.Lib.git)
- [Register free Azure account](https://azure.microsoft.com/zh-tw/free/) (https://azure.microsoft.com/zh-tw/free/)

Update

2020/06

- update to .NET Core 3.1 (Visual Studio 2019 required)

- When fisrt time to build and do unit test of this project, you can find the one error issue of unit test result.

- Controllers / HomeController.cs

```
public class HomeController : Controller
{
    public IActionResult Index()
    {
        ViewData["Message"] = "Success!";

        return View();
    }
}
```

"Success!" > "DevOps Workshop"

Azure Pipelines Build

AspNetCore.Sample

Pipeline
Build pipeline   ...

Get sources
huier-lab-1216   master

Agent job 1
Run on agent   +

Use NuGet 5.x
NuGet tool installer

NuGet restore
NuGet

Build solution
Visual Studio build

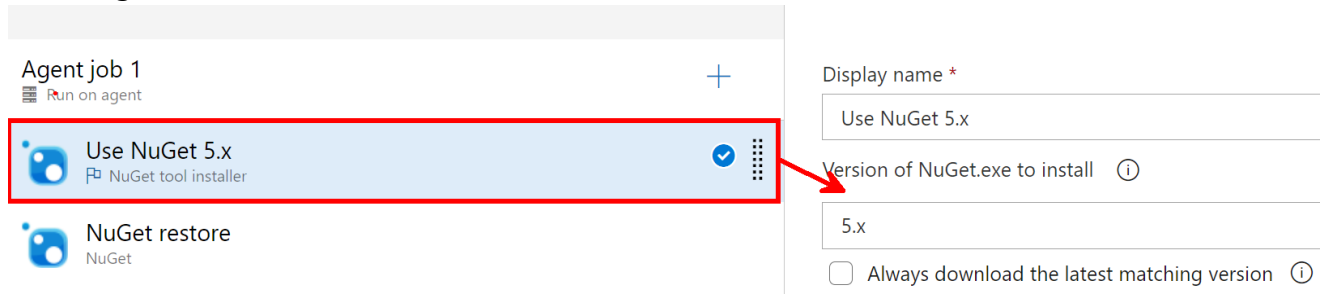**Test Assemblies**
Visual Studio Test

Publish symbols path
Index sources and publish symbols

Publish Artifact
Publish build artifacts

- Use Nuget 5.x

- Test Assemblies : edit Test files

```
**\$(BuildConfiguration)\**\*UnitTest.dll
!**\obj\**
```

HelloWorldNuGet

Pipeline
Build pipeline   ●●●

Get sources
Ⅺ HelloWorld.Lib   ⅛ master

Agent job 1
Run on agent   +

Use NuGet 4.4.1
NuGet tool installer

NuGet restore
NuGet

Build solution
Visual Studio build

~~Test Assemblies~~
Disabled: Visual Studio Test

dotnet pack
.NET Core

Publish symbols path
Index sources and publish symbols

Publish Artifact
Publish build artifacts

- Setting Pack Option

HelloWorld.Lib CI

Tasks   Variables   Triggers   Options   Retention   History   🖫 Save & queue ⌄   ↺ Discard   ☰ Summary   ▷ Queue   ⋯

Pipeline
Build pipeline

Get sources
🗄 HelloWorld.Lib   ⑂ master

Agent job 1
🖳 Run on agent   +

Use NuGet 4.4.1
NuGet tool installer

NuGet restore
NuGet

Build solution
Visual Studio build

~~Test Assemblies~~
Disabled: Visual Studio Test

dotnet pack   ✅
.NET Core

Publish symbols path
Index sources and publish symbols

Publish Artifact
Publish build artifacts

**/*.csproj

Configuration to Package ⓘ
$(BuildConfiguration)

Package Folder ⓘ
$(Build.ArtifactStagingDirectory)

☐ Do not build ⓘ
☐ Include Symbols ⓘ
☐ Include Source ⓘ

Pack options ⌄

Automatic package versioning *   ⓘ
Use the date and time   ⌄

Major *   ⓘ
1

Minor *   ⓘ
0

Patch *   ⓘ
0

Azure Pipelines Release

AspNetCore.Sample

- Dev

Dev
Deployment process   •••

Run on agent
🖳 Run on agent   +

🌐 **Deploy Azure App Service**   ✅ ⋮
Azure App Service deploy

- Production

Production
Deployment process

Run on agent
Run on agent

Deploy Azure App Service
Disabled: Azure App Service deploy

Swap Slots: DevOpsWorkshop
Azure App Service manage

HelloWorldNuGet

Pipeline | Tasks ⌄ | Variables | Retention | Options | History

Stage 1
Deployment process

Agent job
Run on agent

NuGet restore
NuGet

NuGet ⓘ

View YAML   Remove

Task version | 2.*

Display name *
NuGet restore

Command * ⓘ

restore

restore
pack
push
custom