

TP4-Azure-Pipeline

Nicolas Bergami

1. Solicitar acceso a MS para la ejecución de pipelines: Lo primero que debes hacer es asegurarte de que tienes acceso a Azure Pipelines. Si aún no lo tienes, deberás solicitarlo a la persona encargada o al administrador de la cuenta.

- Una vez recibido el acceso, reintentamos correr el pipeline.

#20240913.1 • Set up CI with Azure Pipelines


Run new

This run is being retained as one of 3 recent runs by main (Branch).

View retention leases


Summary



Code Coverage

Manually run by  Nicolas Bergami


View 35 changes


Repository and version

 Sample02-Agile


 main  ebce70f0


Time started and elapsed

 Today at 9:02 PM


 18s

Related



 0 work items

 0 artifacts

Tests and coverage

 [Get started](#)

Jobs

Name	Status	Duration
 Job	Success	 5s

2. Agregar tareas (tasks) de publish:

- Una vez configurado el pipeline, agrega las tareas de publish para guardar los artefactos generados (por ejemplo, ejecutables o archivos comprimidos).
- Guarda los cambios y realiza un commit; esto disparará automáticamente el pipeline.

← Sample02-Agile

main ▾ Sample02-Agile / azure-pipelines.yml

```
1  # Starter pipeline
   Settings
2  - task: PublishPipelineArtifact@1
3  - inputs:
4    - targetPath: '$(Pipeline.Workspace)'
5    - artifact: 'PublishPipelineArtifact@1'
6    - publishLocation: 'pipeline'
7  # Start with a minimal pipeline that you can customize to build and deploy your code.
8  # Add steps that build, run tests, deploy, and more:
9  # https://aka.ms/yaml
10
11 trigger:
12   - main
13
14 pool:
15   - vmImage: ubuntu-latest
16
17 steps:
18   - script: echo Hello, world!
19     displayName: 'Run a one-line script'
20
21   - script: |
22     echo Add other tasks to build, test, and deploy your project.
23     echo See https://aka.ms/yaml
24     displayName: 'Run a multi-line script'
25
```

3. Descargar el resultado de la carpeta drop:

- Después de que el pipeline termine de ejecutarse, descarga el archivo drop.zip desde la carpeta generada (drop).
- Descomprime el archivo y ejecuta tu aplicación localmente para verificar que funciona correctamente.

Name	Size	
▼ drop	21 KB	
TestResults		
a		
b		
▼ s	21 KB	⋮
> .github	4 KB	Download artifacts
.gitignore	7 KB	Copy download URL
Dockerfile	771 B	
README.md	109 B	
> SimpleWebAPITests	4 KB	
SimpleWebAPISln	2 KB	
> SimpleWebAPI	4 KB	
azure-pipelines.yml	533 B	

4. Habilitar Pipeline Classic Editor

Organization Settings

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Search Settings

General

Overview

Projects

Users

Billing

Global notifications

Usage

Extensions

Microsoft Entra

Security

Security overview

Policies

Permissions

Boards

Process

Pipelines

Agent pools

Settings

Deployment pools

Parallel jobs

Settings

General

On

Disable anonymous access to badges

Anonymous users can access the status badge API for all pipelines unless this option is enabled (does not apply to public projects).

On

Limit variables that can be set at queue time

You can set any variables at queue time unless this option is enabled. With this option enabled, only those variables that are explicitly marked as "Settable at queue time" can be set. [Learn more](#)

On

Limit job authorization scope to current project for non-release pipelines

Non-Release Pipelines can run with collection scoped access tokens unless this option is enabled. With this option enabled, you can reduce the scope of access for all non-release pipelines to the current project.

On

Limit job authorization scope to current project for release pipelines

Release pipelines can run with collection scoped access tokens unless this option is enabled. With this option enabled, you can reduce the scope of access for all release pipelines to the current project.

On

Protect access to repositories in YAML pipelines

Apply checks and approvals when accessing repositories from YAML pipelines. Also, generate a job access token that is scoped to repositories that are explicitly referenced in the YAML pipeline.

Off

Disable stage chooser

With this enabled, users will not be able to select stages to skip from the Queue Pipeline panel.

Off

Disable creation of classic build pipelines

No classic build pipelines can be created / imported. Existing ones will continue to work.

On

Disable creation of classic release pipelines

No classic release pipelines, task groups, and deployment groups can be created / imported. Existing ones will continue to work.

5. Crear y correr Pipeline con Classic Editor.

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Search

Sample02-Agile

Overview

Boards

Repos

Pipelines

Pipelines

Environments

Library

Test Plans

Artifacts

Select your repository

Tell us where your sources are. You can customize how to get these sources from the repository later.

Select a source

Azure Repos Git

GitHub

GitHub Enterprise Server

Subversion

Bitbucket Cloud

Other Git

Team project

Sample02-Agile

Repository

Sample02-Agile

Default branch for manual and scheduled builds

main

Continue

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Search

NB

+

Sample02-Agile-ASP.NET Core-CI

TasksVariablesTriggersOptionsHistorySave & queueDiscardSummaryQueue

PipelineBuild pipeline

Get sourcesSample02-Agilemain

Agent job 1Run on agent

Restore.NET Core

Build.NET Core

Test.NET Core

Publish.NET Core

Publish ArtifactPublish build artifacts

Name *Sample02-Agile-ASP.NET Core-CI

Agent poolAzure Pipelines

Agent Specification *windows-latest

ParametersUnlink all

Project(s) to restore and build**/*.csproj

Project(s) to test**/[Tt]ests/*.csproj

Sample02-Agile / Pipelines / Sample02-Agile-ASP.NET C... / 20240913.1

Search

NB

#20240913.1 • Update azure-pipelines.yml for Azure Pipelines

Sample02-Agile-ASP.NET Core-CI

Cancel

SummaryCode Coverage

Manually run byNicolas Bergami

View 37 changes

Repository and versionSample02-Agilemain8c4e9402

Time started and elapsedJust now-

Related0 work items1 consumed

Tests and coverageGet started

Jobs

Name	Status	Duration
Agent job 1	Queued	

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Search

NB

← Jobs in run #20240913.1Sample02-Agile-ASP.NET Core-CI

Jobs

Agent job 12m 0s

Initialize job4s

Checkout Sample02-Ag...7s

Restore38s

Build24s

Test32s

Publish4s

Publish Artifact4s

Post-job: Checkout Sam...2s

Finalize Job<1s

Report build status<1s

Publish

View raw log

1 Starting: Publish

2 -----

3 Task : .NET Core

4 Description : Build, test, package, or publish a dotnet application, or run a custom dotnet command

5 Version : 2.245.1

6 Author : Microsoft Corporation

7 Help : https://docs.microsoft.com/azure/devops/pipelines/tasks/build/dotnet-core-cli

8 -----

9 [warning]Resource file has already set to: D:\a_tasks\DotNetCoreCLI_554a522-693c-47ad-91fc-a4b1d1c3881b\2.245.1\node_modules\azur

10 C:\Windows\system32\chcp.com 65001

11 Active code page: 65001

12 Info: .NET Core SDK/runtime 2.2 and 3.0 are now End of Life(EOL) and have been removed from all hosted agents. If you're using these

13 "C:\Program Files\dotnet\dotnet.exe" publish D:\a\1\s\SimpleWebAPI\SimpleWebAPI.csproj --configuration Release --output D:\a\1\s\Sim

14 Determining projects to restore...

15 All projects are up-to-date for restore.

16 SimpleWebAPI -> D:\a\1\s\SimpleWebAPI\bin\Release\net7.0\SimpleWebAPI.dll

17 SimpleWebAPI -> D:\a\1\s\SimpleWebAPI\

18

19 Info: Azure Pipelines hosted agents have been updated and now contain .Net 5.x SDK/Runtime along with the older .Net Core version wh

20 Finishing: Publish

6. Configurar CI: Configuración continua

• En clásicos

🏠 ... > Sample02-Agile-ASP.NET Core-CI

Tasks Variables **Triggers** Options History | Save & queue Discard Summary Queue ...

Continuous integration

Sample02-Agile
Enabled

Scheduled + Add
No builds scheduled

Build completion + Add
Build when another build completes

Sample02-Agile

☒ Enable continuous integration
☐ Batch changes while a build is in progress

Branch filters

Type Branch specification

Include Include main

+ Add

Path filters
+ Add

• En YAML:

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Search

← **Sample02-Agile** Variables Run

main Sample02-Agile / azure-pipelines.yml

```
1 # Starter pipeline
2
3 trigger:
4   - main
5
6 pool:
7   vmImage: 'ubuntu-latest'
8
9 steps:
```

Tasks

Search tasks

- .NET Core
Build, test, package, or publish a dotnet application...
- Android signing
Sign and align Android APK files

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← **Sample02-Agile**

main Sample02-Agile / azure-pipelines.yml

```
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2
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13  - script: |
14    echo Add other tasks to build, test, and deploy your project.
15    echo See https://aka.ms/yaml
16    displayName: 'Run a multi-line script'
17
18  settings:
19    task: PublishPipelineArtifact@1
20    inputs:
21      targetPath: '$(Pipeline.Workspace)' # Ruta donde se generan los artefactos
22      artifactName: 'drop' # Nombre del artefacto
23      publishLocation: 'pipeline' # Publicar en el pipeline
24
```

Pipeline settings

Processing of new run requests

☐ Enabled
☐ Paused
☒ Disabled

YAML file path

azure-pipelines.yml

☐ Automatically link work items included in this run

Cancel Save

7. Instalar un agente en nuestro entorno

- Crear un access Token

Create a new personal access token



Name

token 2

Organization

nicolasbergami2013



Expiration (UTC)

30 days



10/12/2024



Scopes

Authorize the scope of access associated with this token




Scopes ☒ Full access

☐ Custom defined

Create

Cancel

- Crear un pool

Agent pools		
Name	Queued jobs	Running jobs
 Azure Pipelines Azure Pipelines		
 Default Azure Pipelines		
 MiPool Nicolas Bergami		

- En la terminal descomprimos, configuramos. Colocamos la url de mi proyecto y el access token

```
C:\Users\nicol\OneDrive\Documentos\universidad\Ingenieria de Software 3\vsts-agent-win-x64-3.243.1>config.cmd

  agent v3.243.1 (commit 3bb22cd)

>> Connect:
Enter server URL > https://dev.azure.com/nicolasbergami2013/
Enter authentication type (press enter for PAT) >
Enter personal access token > *****
Connecting to server ...
```

Name	Last run	Current status	Agent version	Enabled
miagente Offline		Idle	3.243.1	<input checked="" type="checkbox"/> On

- Cambiamos el agent pool del pipeline que esta corriendo

Sample02-Agile-ASP.NET Core-CI

Tasks

Variables

Triggers

Options

History

Save & queue

Discard

Summary

Queue

Pipeline

Build pipeline

Get sources

Sample02-Agile

main

Agent job 1

Run on agent

Restore

.NET Core

Build

Name *

Sample02-Agile-ASP.NET Core-CI

Agent pool

MiPool

Parameters

Unlink all

Project(s) to restore and build