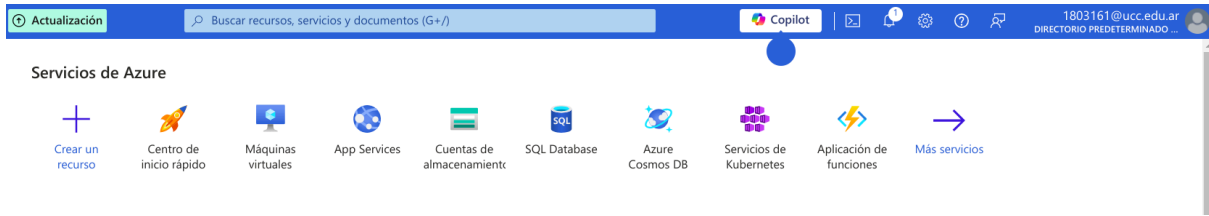


TP 5 - Despliegue de aplicaciones con Azure Devops Release Pipelines

4- Desarrollo:

4.1. Crear una cuenta en Azure



4.2. Crear un recurso Web App en Azure Portal y navegar a la url provista

Datos básicos

Implementación


Redes

Supervisión y protección

Etiquetas

Revisar y crear

Resumen

 **Aplicación web**
de Microsoft

SKU Gratis
Precio estimado - Gratis

Detalles

Suscripción	5341073c-194f-47d6-9c70-69c9a32cbcdf
Grupo de recursos	TPSIingSoft3UCC2024
Nombre	MiWebApp01
Nombre de host predeterminado único (versión preliminar)	Habilitado
Publicar	Código
Pila del entorno en tiempo de ejecución	.NET 6 (LTS)

Plan de App Service (nuevo)

Nombre	MiAppPlan01
Sistema operativo	Windows
Región	Brazil South
-	
SKU	Gratis
ACU	Infraestructura compartida
Memoria	1 GB de memoria

Supervisión y protección

Application Insights	Sin habilitar
----------------------	---------------

Implementación

Autenticación básica	Habilitado
Implementación continua	No habilitado/configurado tras crear la aplicación

Crear

< Anterior

Siguiente >

Descargar una plantilla para la automatización

Buscar

Eliminar Cancelar Volver a implementar Descargar Actualizar

Información general

Entradas

Salidas

Plantilla

Se completó la implementación



Nombre de implementación: Microsoft.Web-WebApp-Portal-d234...
Suscripción: [Azure subscription 1](#)
Grupo de recursos: [TPSingSoft3UCC2024](#)

Hora de inicio: 14/9/2024, 07:53:14

Id. de correlación: d6636ba6-fec9-4ef7-bbd0-6dba8f11c360



Detalles de implementación

Pasos siguientes

Administre las implementaciones de la aplicación. Recomendado

Proteja la aplicación mediante la autenticación. Recomendado

[Ir al recurso](#)

Dominio predeterminado:

miwebapp01-gvc8cmeageevb6bp.brazilsouth-01.azurewebsites.net



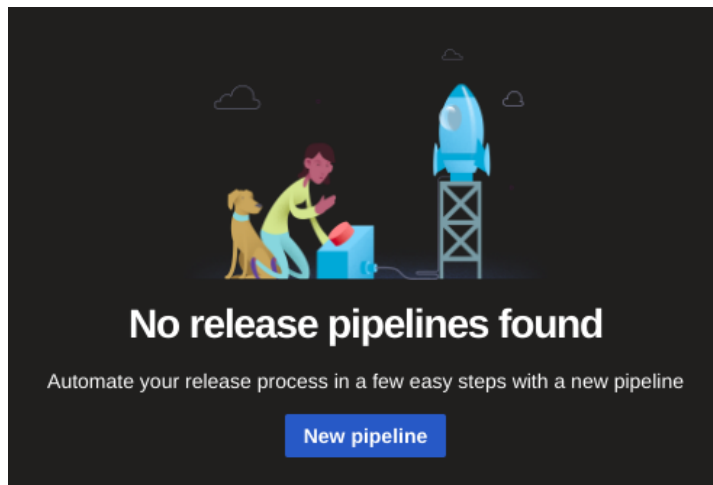
Your web app is running and waiting for your content

Your web app is live, but we don't have your content yet. If you've already deployed, it could take up to 5 minutes for your content to show up, so come back soon.



 Supporting Node.js, Java, .NET and more

4.3. Actualizar Pipeline de Build para que use tareas de DotNetCoreCLI@2 como en el pipeline clásico, luego crear un Pipeline de Release en Azure DevOps con CD habilitada



×

Add an artifact

Source type

✓ Build

Azure Repo...

GitHub

TFVC

[5 more artifact types](#) ▾

Project * ⓘ

sample02 ▾

Source (build pipeline) * ⓘ

sample02 ▾

Default version * ⓘ

Latest ▾

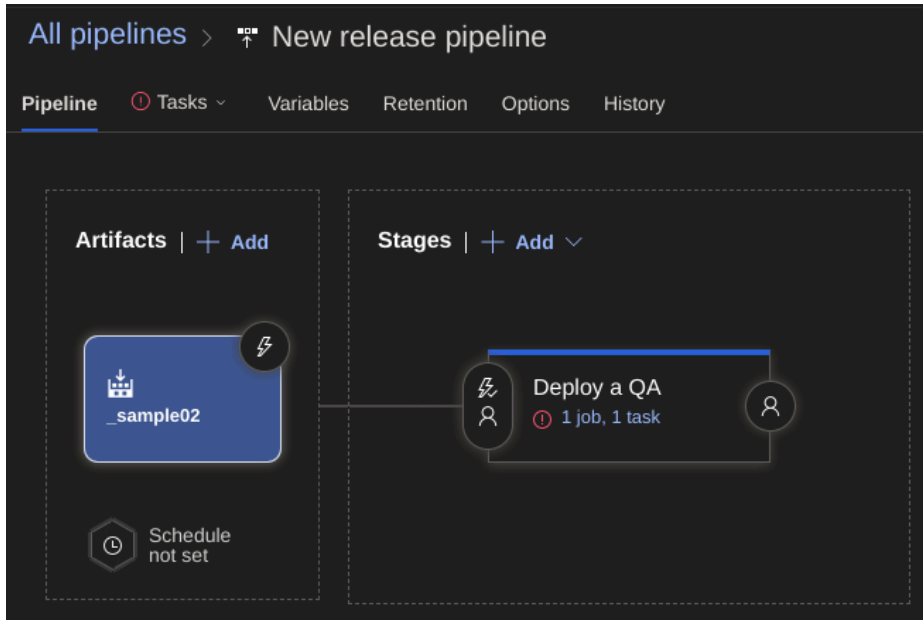
Source alias * ⓘ

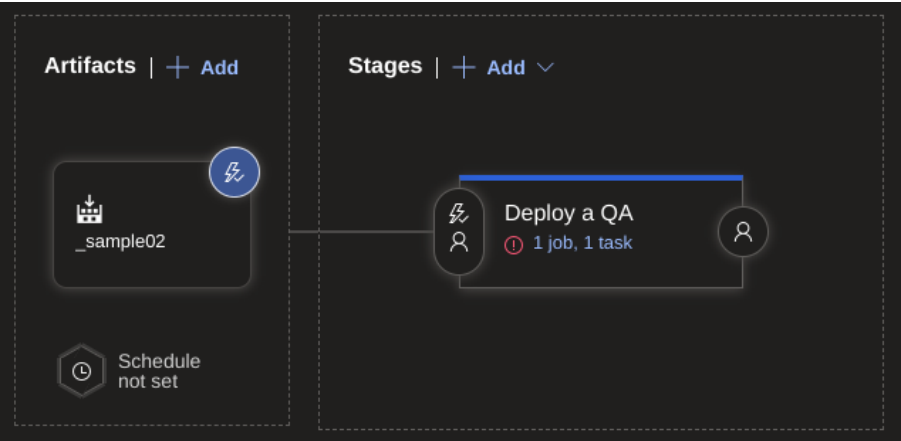
_sample02

ⓘ

 The artifacts published by each version will be available for deployment in release pipelines. The latest successful build of **sample02** published the following artifacts: **drop**.

Add





Stage name

Deploy a QA

Parameters ⓘ | 🔗 Unlink all

Azure subscription * 🔗 | Manage 🌐

Azure subscription 1 (5341073c-194f-47d6-9c70-69c9a32cbcdf) ▼ ↻

ⓘ Scoped to subscription 'Azure subscription 1'
This field is linked to 1 setting in 'Deploy Azure App Service'


App type 🔗


Web App on Windows ▼


App service name * 🔗


MiWebApp01 ▼ ↻


This field is linked to 1 setting in 'Deploy Azure App Service'


 **sample02** +


 Overview


 Boards

 Repos

 **Pipelines**

 Pipelines

 Environments

 Releases

🔍 Search all pipelines

☰

📁

🗑️

+ New ▼

ReleasePipeline01

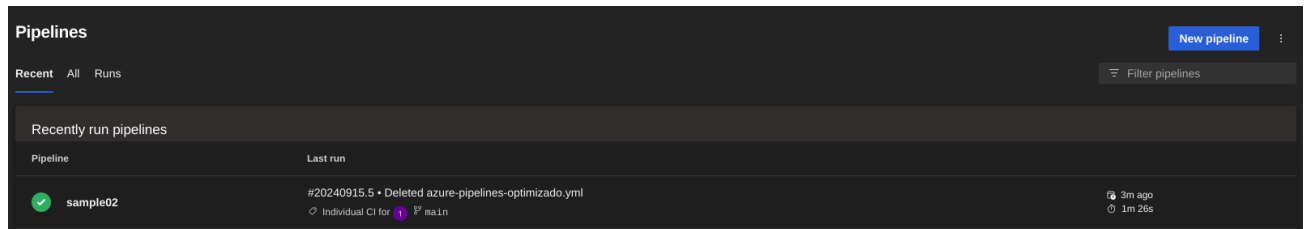
No deployments found

★

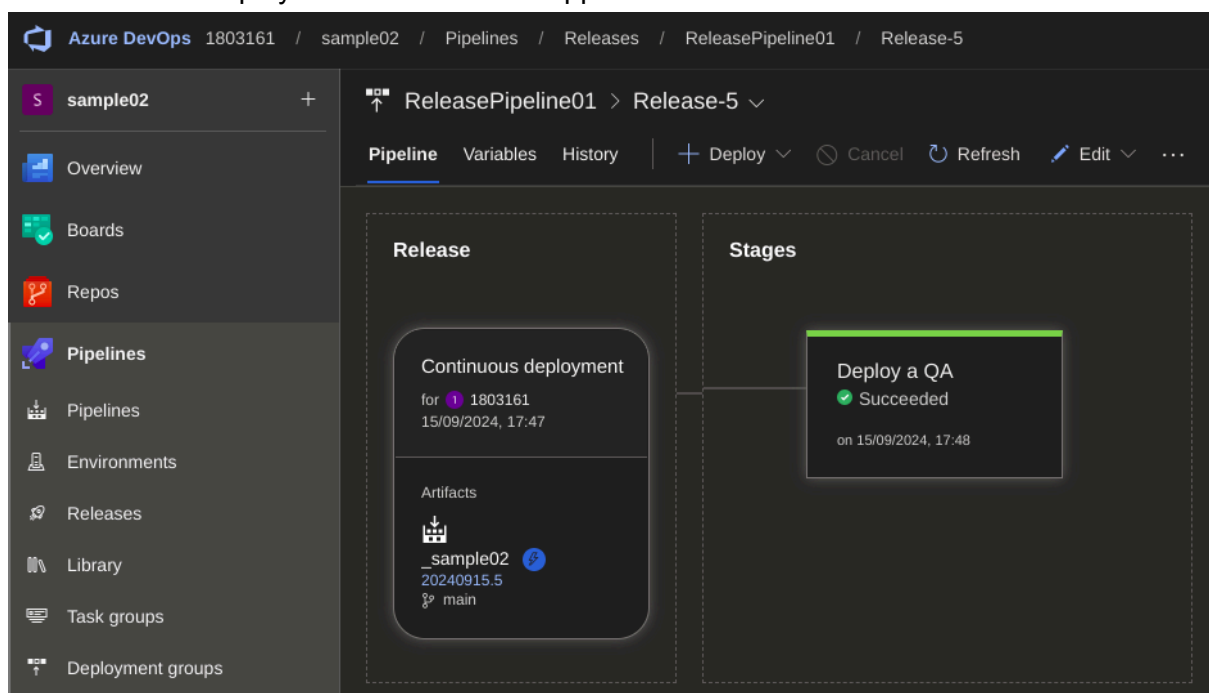
4.4. Optimizar Pipeline de Build

Primero me confundí y reemplacé el azure-pipelines.yml en repos > files, por el que .yml pasado por whatsapp. Cambio que luego revertí.

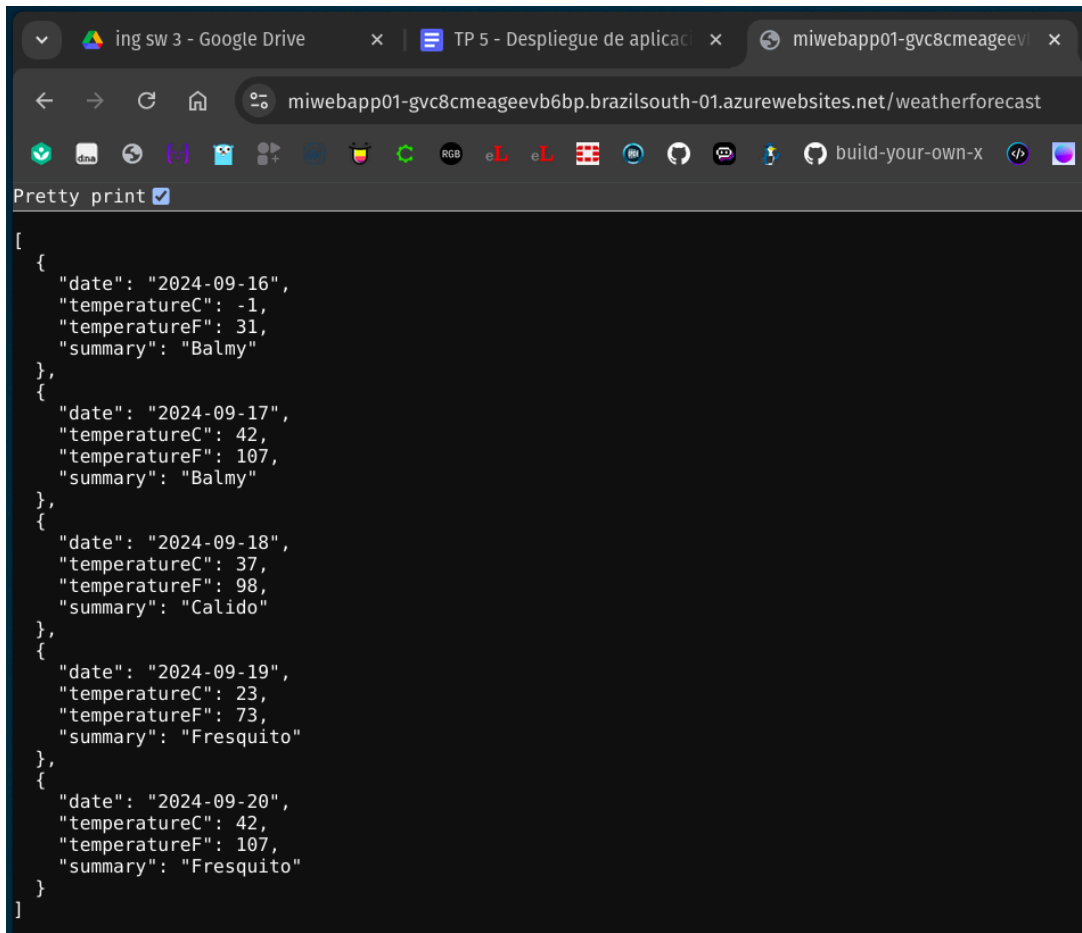
Y después para optimizar el pipeline de build actualice el .yml del pipeline sample02 por el .yml pasado por whatsapp.



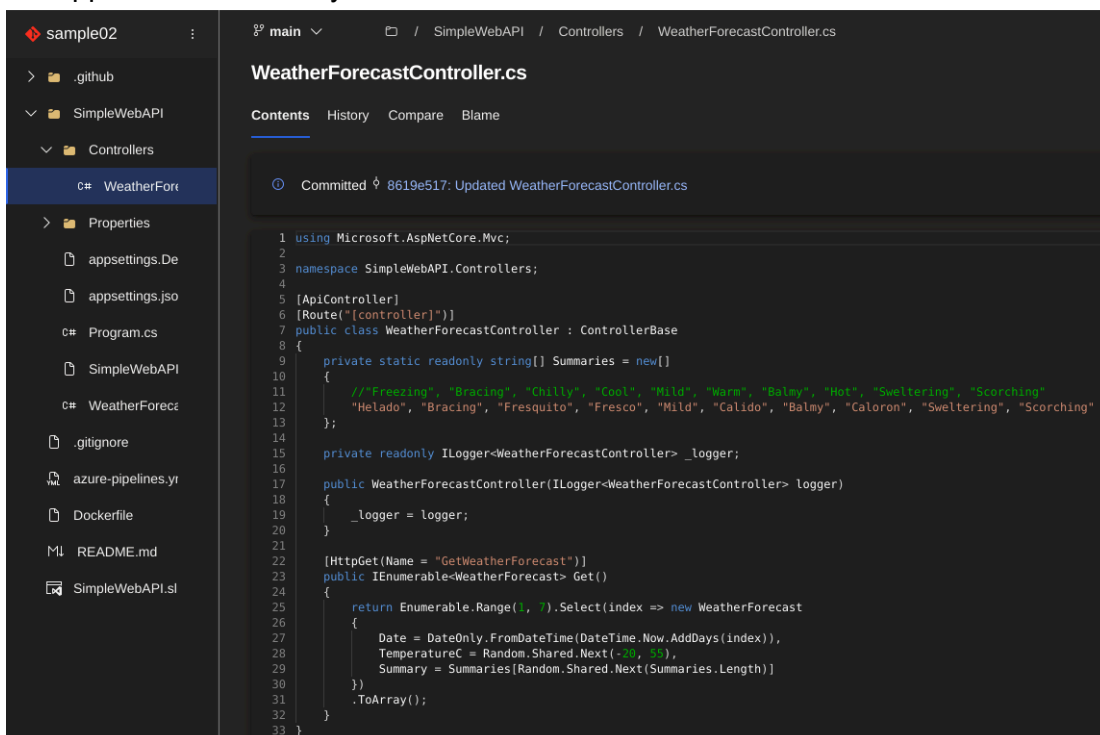
4.5. Verificar el deploy en la url de la WebApp /weatherforecast



<https://miwebapp01-gvc8cmeageevb6bp.brazilsouth-01.azurewebsites.net/weatherforecast>



4.6. Realizar un cambio al código del controlador para que devuelva 7 pronósticos, realizar commit, evaluar ejecución de pipelines de build y release, navegar a la url de la webapp/weatherforecast y corroborar cambio



Se ejecutó automáticamente el pipeline de build.

#20240915.6 • Updated WeatherForecastController.cs

sample02

Run new

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

View retention leases

SummaryReleasesCode Coverage

Triggered by 1 1803161

View change

Repository and version

Time started and elapsed

Related

Tests and coverage

sample02

Today at 18:01

0 work items

Get started

main 8619e517

1m 26s

1 published

Warnings 3

Resource file has already set to: D:\a_tasks\DotNetCoreCLI_5541a522-603c-47ad-91f1-a4b1d163081b\2.245.1\node_modules\azure-pipelines-tasks-packaging-common\module.json Restaurar paquetes NuGet

Resource file has already set to: D:\a_tasks\DotNetCoreCLI_5541a522-603c-47ad-91f1-a4b1d163081b\2.245.1\node_modules\azure-pipelines-tasks-packaging-common\module.json Compilar la solución

Resource file has already set to: D:\a_tasks\DotNetCoreCLI_5541a522-603c-47ad-91f1-a4b1d163081b\2.245.1\node_modules\azure-pipelines-tasks-packaging-common\module.json Publicar aplicación

Jobs

Name	Status	Duration
Job	Success	1m 0s

Se ejecutó automáticamente el pipeline de release.

sample02

OverviewBoardsReposPipelinesPipelinesEnvironmentsReleasesLibraryTask groupsDeployment groups

ReleasePipeline01 > Release-6

PipelineVariablesHistory

+ DeployCancelRefreshEdit

Release

Continuous deployment

for 1 1803161

15/09/2024, 18:03

Artifacts

_sample02

20240915.6

main

Stages

Deploy a QA

Succeeded

on 15/09/2024, 18:04

Y muestra 7 pronósticos.

```
miwebapp01-gvc8cmeageevb6bp.brazilsouth-01.azurewebsites.net/weatherforecast

[
  {
    "date": "2024-09-16",
    "temperatureC": 40,
    "temperatureF": 103,
    "summary": "Balmy"
  },
  {
    "date": "2024-09-17",
    "temperatureC": 14,
    "temperatureF": 57,
    "summary": "Calido"
  },
  {
    "date": "2024-09-18",
    "temperatureC": 1,
    "temperatureF": 33,
    "summary": "Balmy"
  },
  {
    "date": "2024-09-19",
    "temperatureC": 32,
    "temperatureF": 89,
    "summary": "Fresco"
  },
  {
    "date": "2024-09-20",
    "temperatureC": 6,
    "temperatureF": 42,
    "summary": "Caloron"
  },
  {
    "date": "2024-09-21",
    "temperatureC": 9,
    "temperatureF": 48,
    "summary": "Sweltering"
  },
  {
    "date": "2024-09-22",
    "temperatureC": 47,
    "temperatureF": 116,
    "summary": "Scorching"
  }
]
```

4.7. Clonar la Web App de QA para que contar con una WebApp de PROD a partir de un Template Deployment en Azure Portal y navegar a la url provista para la WebApp de PROD.

[Inicio](#) > [Microsoft.Template-20240915181900](#) | [Información general](#) >

Implementación personalizada

Implementar desde una plantilla personalizada

Suscripción	Azure subscription 1
Grupo de recursos	TPSingSoft3UCC2024
Región	East US
Subscription Id	5341073c-194f-47d6-9c70-69c9a32cbcdf
Resource Group Name	TPSingSoft3UCC2024
Name	MiWebApp01-PROD
Location	Brazil South
Hosting Plan Name	MiAppPlan01
Server Farm Resource Group	TPSingSoft3UCC2024
Always On	false
Ftps State	FtpsOnly
Auto Generated Domain Name Label Sc...	TenantReuse
Sku	Free
Sku Code	F1
Worker Size	0
Worker Size Id	0
Number Of Workers	1
Current Stack	dotnet
Php Version	OFF
Net Framework Version	v6.0

< Anterior

Siguiente

Crear

Inicio >

Microsoft.Template-20240915182122 | Información general

Implementación

Buscar

EliminarCancelarVolver a implementarDescargarActualizar

Información general

EntradasSalidasPlantilla

Se completó la implementación

Nombre de implementación : Microsoft.Template-20240915182122

Suscripción : Azure subscription 1

Grupo de recursos : TPSIngSoft3UCC2024

Hora de inicio : 15/9/2024, 06:21:28

Id. de correlación : a453210c-e10b-4b43-b4ac-db35c890ec0e

TPSIngSoft3UCC2024

Grupo de recursos

Buscar

+ CrearAdministrar vistaEliminar grupo de recursosActualizarExportar a CSV

Información general

Registro de actividadControl de acceso (IAM)EtiquetasVisualizador de recursosEventosConfiguraciónAdministración de costosSupervisiónAutomationAyuda

Información esencial

Vista JSON

RecursosRecomendaciones

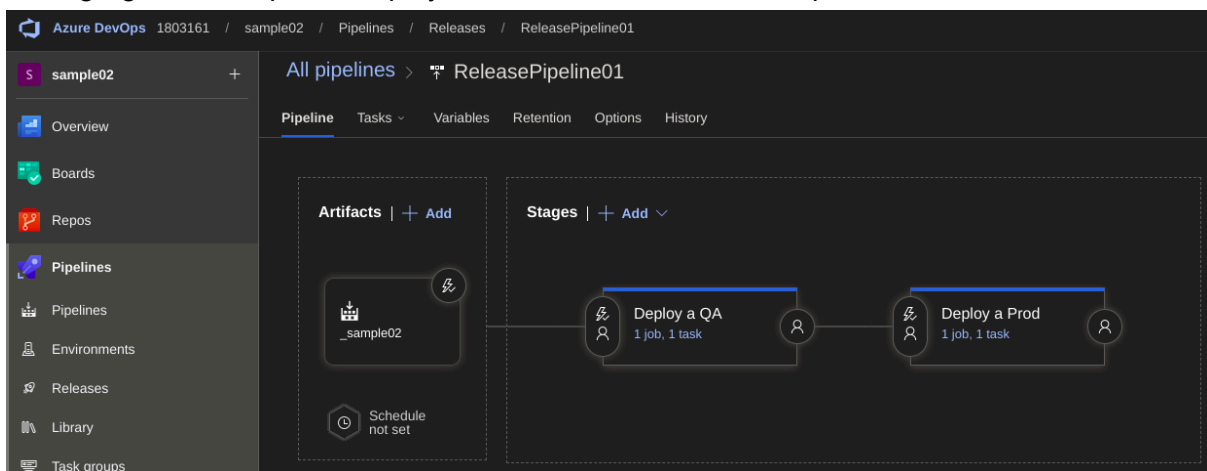
Filtrar por cualquier camp...Tipo es igual a todoAgregar filtroMás (1)

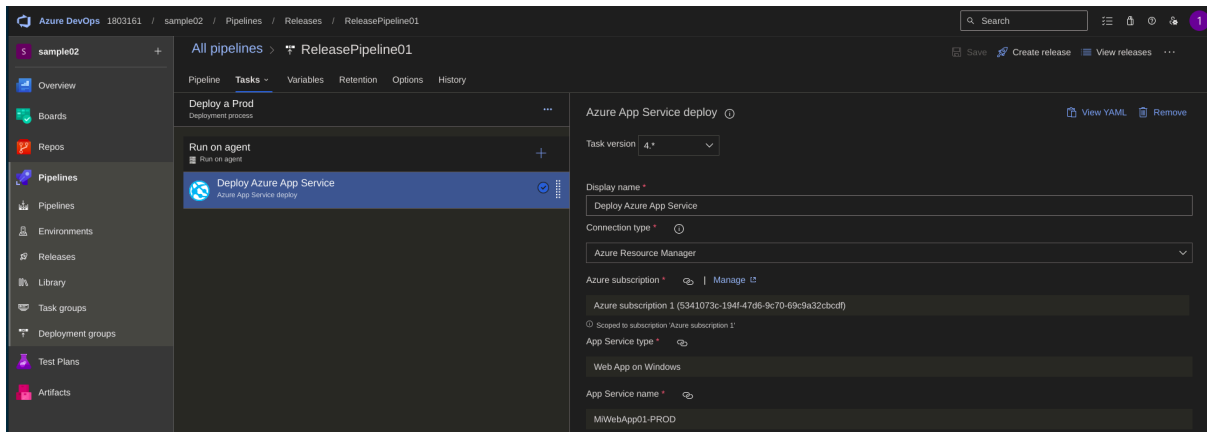
Mostrando de 1 a 3 de 3 registros.Mostrar tipos ocultosSin agrupar

Vista de lista

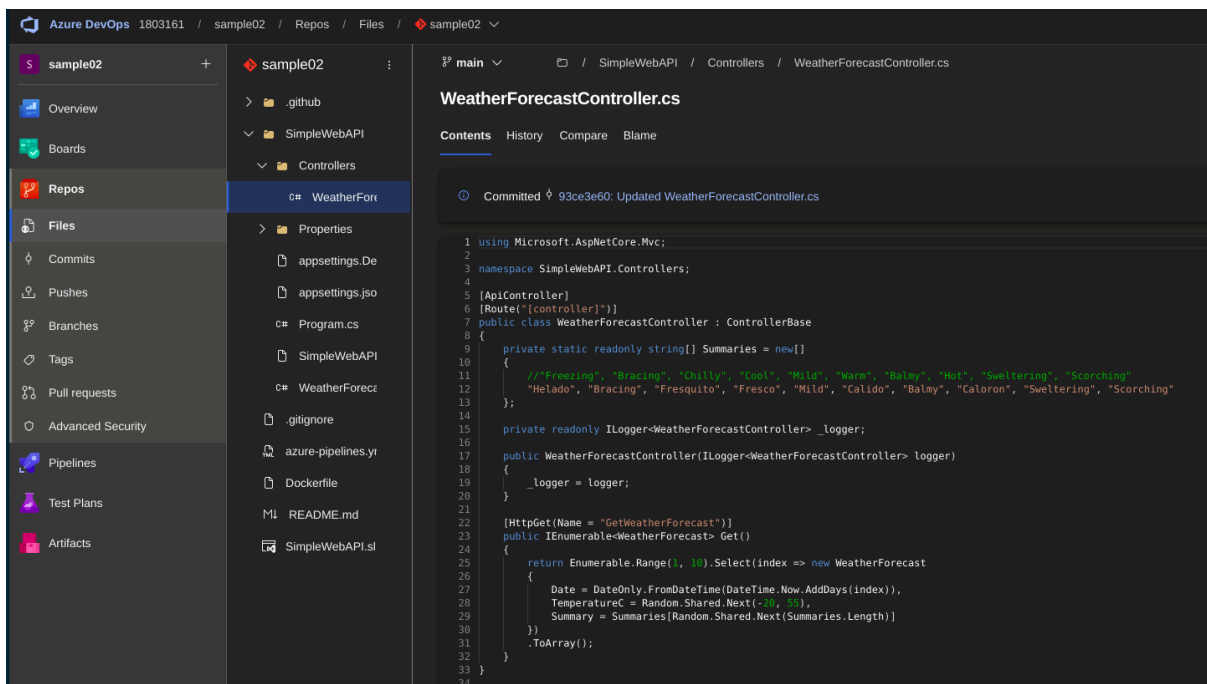
<input type="checkbox"/>	Nombre ↑↓	Tipo ↑↓	Ubicación ↑↓	
<input type="checkbox"/>	MiAppPlan01	Plan de App Service	Brazil South	...
<input type="checkbox"/>	MiWebApp01	App Service	Brazil South	...
<input type="checkbox"/>	MiWebApp01-PROD	App Service	Brazil South	...

4.8. Agregar una etapa de Deploy a Prod en Azure Release Pipelines

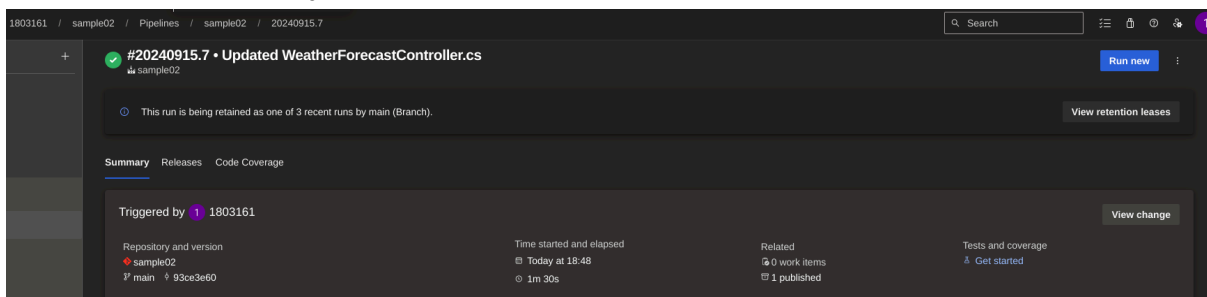




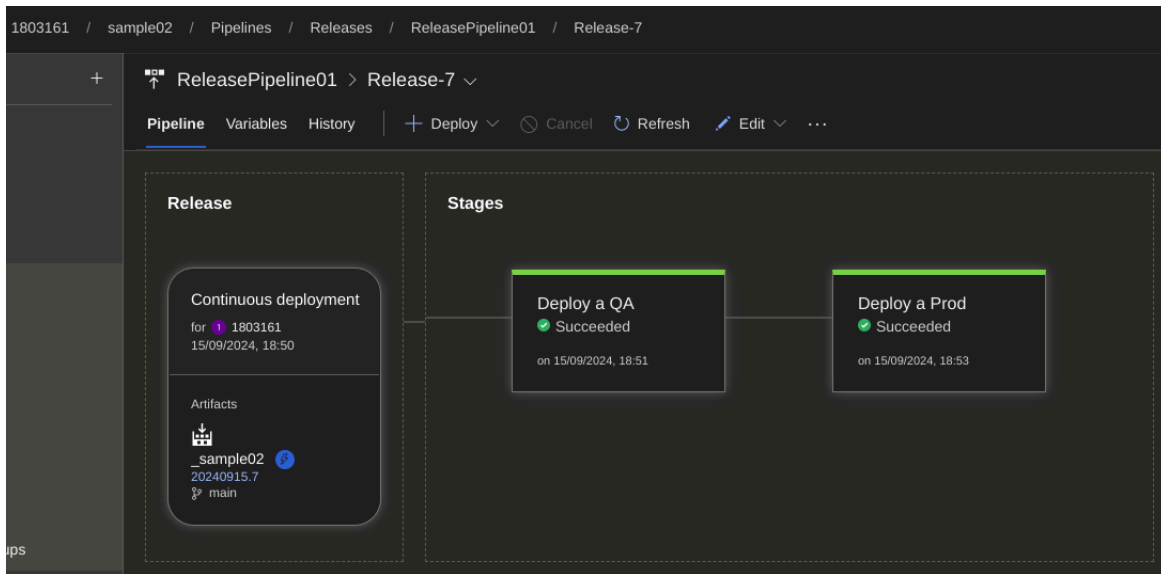
4.9. Realizar un cambio al código del controlador para que devuelva 10 pronósticos, realizar commit, evaluar ejecución de pipelines de build y release, navegar a la url de la webapp/weatherforecast y corroborar cambio, verificar que en la url de la webapp_prod/weatherforecast se muestra lo mismo.



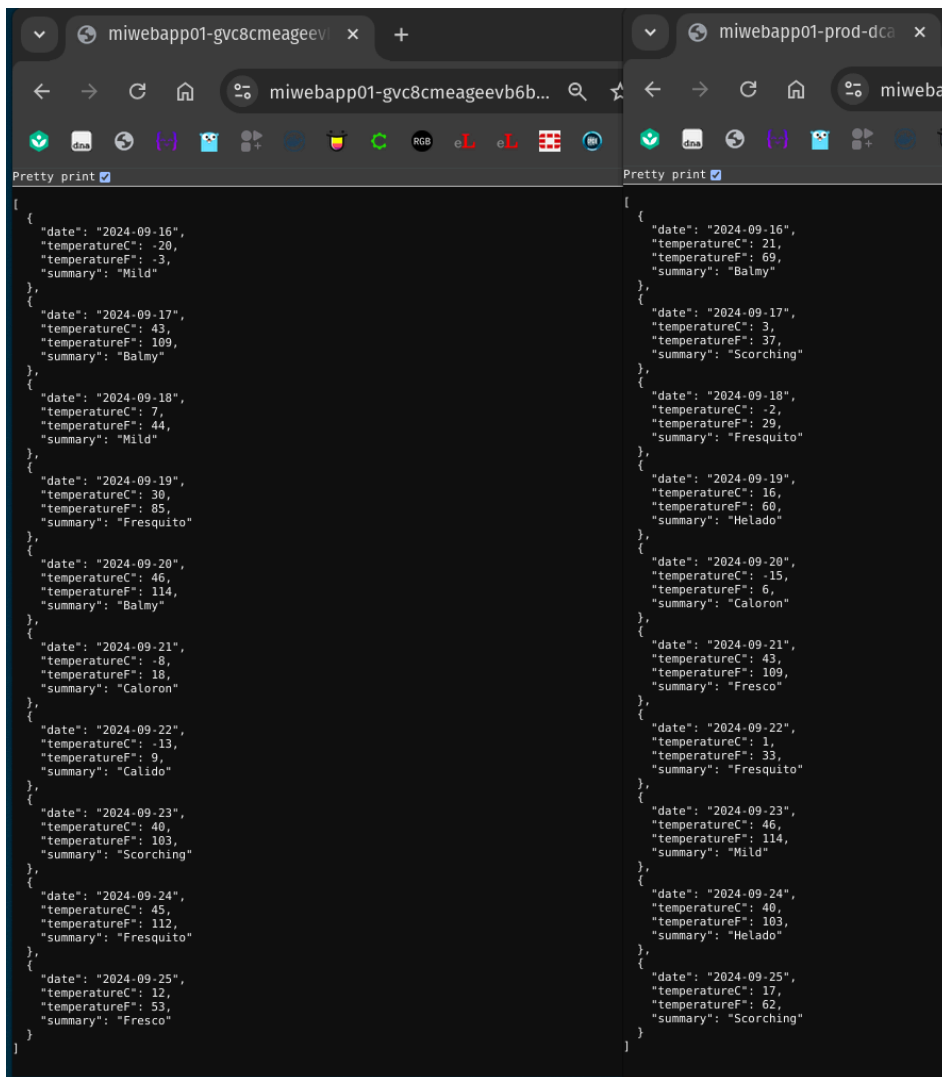
El pipeline de build se ejecutó correctamente.



El pipeline de release, también.



Y tanto en QA como en release están los 10 pronósticos.



<https://miwebapp01-gvc8cmeageevb6bp.brazilsouth-01.azurewebsites.net/weatherforecast>
<https://miwebapp01-prod-dcama3bed2gjfxgg.brazilsouth-01.azurewebsites.net/weatherforecast>

4.10. Modificar el pipeline de release para colocar una aprobación manual para el paso a Producción.

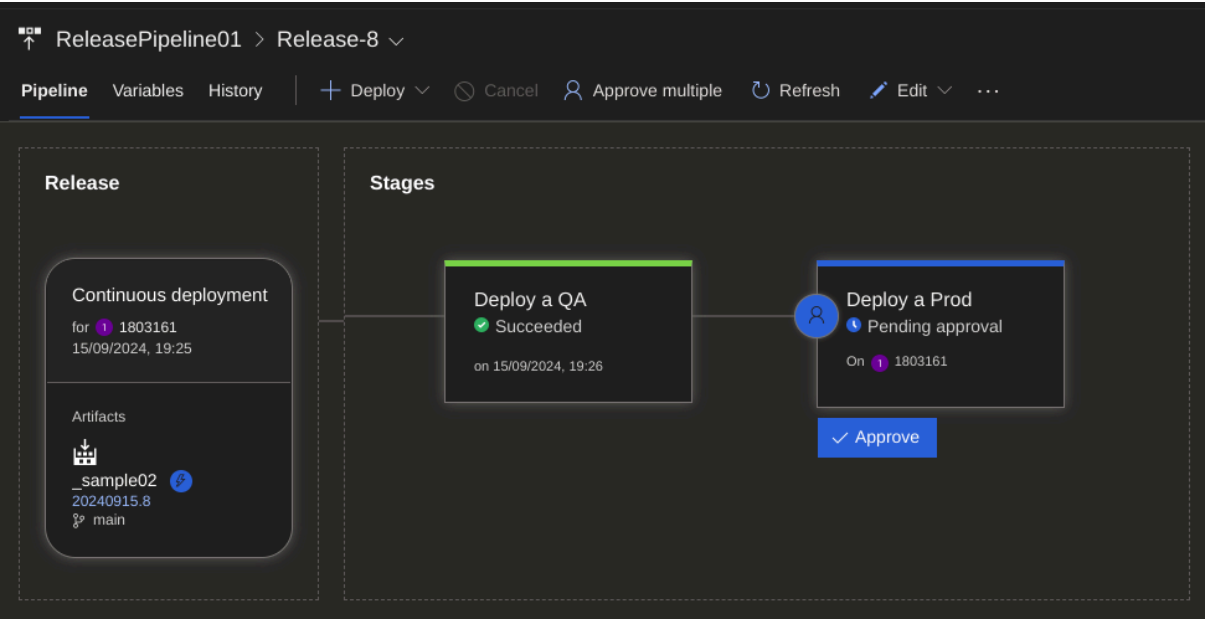
The screenshot shows the configuration of a release pipeline named 'ReleasePipeline01'. The pipeline consists of two stages: 'Deploy a QA' and 'Deploy a Prod'. The 'Deploy a Prod' stage is currently selected, and the 'Pre-deployment conditions' panel is open on the right. In this panel, 'Pre-deployment approvals' are enabled, and a search for approvers is shown with the user '1803161' selected. The timeout is set to 30 days.

4.11. Realizar un cambio al código del controlador para que devuelva 5 pronósticos, realizar commit, evaluar ejecución de pipelines de build y release, navegar a la url de la webapp/weatherforecast y corroborar cambio, verificar que en la url de la webapp_prod/weatherforecast aún se muestra la versión anterior.

The screenshot shows the Visual Studio Code editor with the 'WeatherForecastController.cs' file open. The code is being edited, and the 'Create a pull request' button is visible in the top right corner.

The screenshot shows the details of a release pipeline run for 'Updated WeatherForecastController.cs'. The run is triggered by user '1803161' and is currently in the 'Summary' tab. The run is being retained as one of 3 recent runs by the main branch.

Se ejecutó el pipeline de release en QA pero ahora está esperando aprobación.



QA

```
miwebapp01-gvc8cmeageevl x miwebapp01-gvc8cmeageevl
miwebapp01-gvc8cmeageevl
Pretty print
[
  {
    "date": "2024-09-16",
    "temperatureC": -4,
    "temperatureF": 25,
    "summary": "Sweltering"
  },
  {
    "date": "2024-09-17",
    "temperatureC": 6,
    "temperatureF": 42,
    "summary": "Calido"
  },
  {
    "date": "2024-09-18",
    "temperatureC": -12,
    "temperatureF": 11,
    "summary": "Scorching"
  },
  {
    "date": "2024-09-19",
    "temperatureC": -4,
    "temperatureF": 25,
    "summary": "Sweltering"
  },
  {
    "date": "2024-09-20",
    "temperatureC": -4,
    "temperatureF": 25,
    "summary": "Balmy"
  }
]
```

PROD

```
miwebapp01-prod-dc
Pretty print
[
  {
    "date": "2024-09-16",
    "temperatureC": 21,
    "temperatureF": 69,
    "summary": "Balmy"
  },
  {
    "date": "2024-09-17",
    "temperatureC": 3,
    "temperatureF": 37,
    "summary": "Scorching"
  },
  {
    "date": "2024-09-18",
    "temperatureC": -2,
    "temperatureF": 29,
    "summary": "Fresquito"
  },
  {
    "date": "2024-09-19",
    "temperatureC": 16,
    "temperatureF": 60,
    "summary": "Helado"
  },
  {
    "date": "2024-09-20",
    "temperatureC": -15,
    "temperatureF": 6,
    "summary": "Caloron"
  },
  {
    "date": "2024-09-21",
    "temperatureC": 43,
    "temperatureF": 109,
    "summary": "Fresco"
  },
  {
    "date": "2024-09-22",
    "temperatureC": 1,
    "temperatureF": 33,
    "summary": "Fresquito"
  },
  {
    "date": "2024-09-23",
    "temperatureC": 46,
    "temperatureF": 114,
    "summary": "Mild"
  },
  {
    "date": "2024-09-24",
    "temperatureC": 40,
    "temperatureF": 103,
    "summary": "Helado"
  },
  {
    "date": "2024-09-25",
    "temperatureC": 17,
    "temperatureF": 62,
    "summary": "Scorching"
  }
]
```

4.12. Aprobar el pase ya sea desde el release o desde el mail recibido.

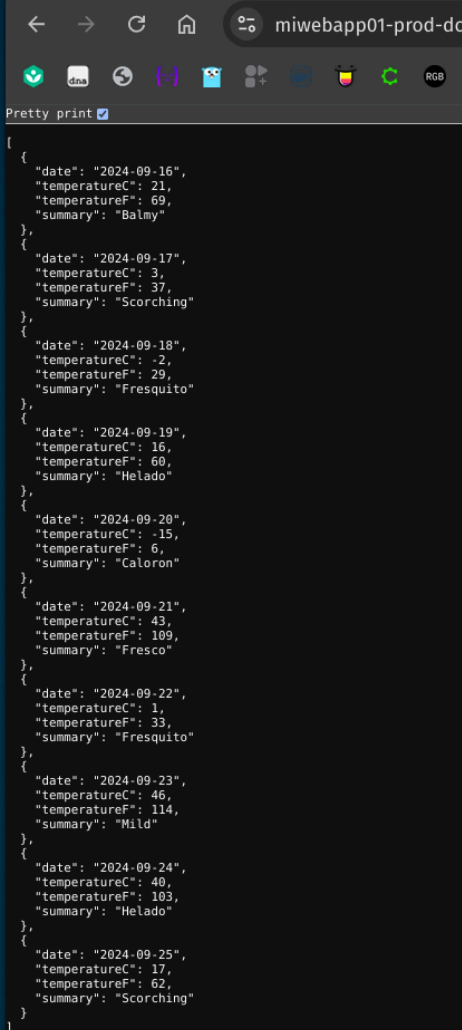
The screenshot shows the 'Deploy a Prod' interface with the status 'Pending approval'. On the left sidebar, a card for 'Deploy a Prod' shows 'On 1803161 for 4 minutes' and an 'Approve' button. The main panel has tabs for 'Approvers' and 'View logs'. A blue banner at the top states 'Approval pending for 3 minutes' and 'Waiting for all approvers to approve in sequence'. Below this, a list of approvers shows user '1803161' with a 'Pending for 3 minutes' status and a 'Reassign' link. A comment box contains the text 'ok'. There is an unchecked checkbox for 'Defer deployment for later'. At the bottom are 'Approve' and 'Reject' buttons.

The screenshot shows the 'Deploy a Prod' interface with the status 'Succeeded'. The left sidebar card now shows 'Deploy a Prod' as 'Queued' with 'Waiting for a job' and the 'Approve' button is disabled. The main panel shows a green banner stating 'Approved on 15/09/2024, 19:30'. The approver list shows user '1803161' as 'Approved on 15/09/2024, 19:30' with the comment 'ok'.

4.12.1. Notar que se puede dar la aprobación pero posponer su aplicación hasta una determinada fecha

This screenshot shows the 'Deploy a Prod' interface with the status 'Pending approval', but with the 'Defer deployment for later' option selected. The left sidebar card shows 'On 1803161 for 3 minutes'. The main panel features the same 'Approval pending for 3 minutes' banner. The 'Defer deployment for later' checkbox is checked. Below it, a 'Date' field is set to 'Mon Sep 16 2024'. Further down, 'Hours' and 'Minutes' dropdowns are set to '03h' and '00m' respectively, with '(UTC) Coordinated Universal Time' indicated. The 'Approve' and 'Reject' buttons are at the bottom.

4.13. Esperar a la finalización de la etapa de Pase a Prod y luego corroborar que en la url de la webapp_prod/weatherforecast se muestra la nueva versión coincidente con la de QA.

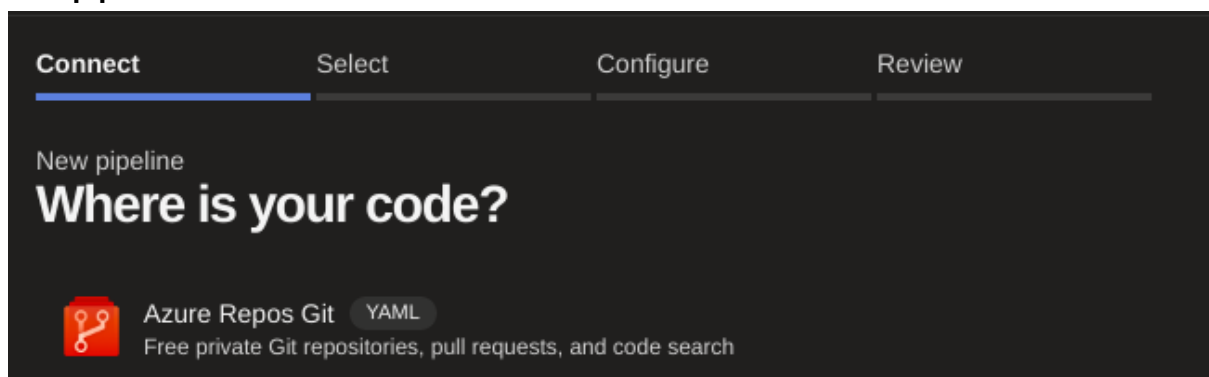


A screenshot of a web browser window. The address bar shows 'miwebapp01-prod-dc'. The page content is a JSON array of weather forecast objects, displayed in a 'Pretty print' view. The JSON data is as follows:

```
{
  {
    "date": "2024-09-16",
    "temperatureC": 21,
    "temperatureF": 69,
    "summary": "Balmy"
  },
  {
    "date": "2024-09-17",
    "temperatureC": 3,
    "temperatureF": 37,
    "summary": "Scorching"
  },
  {
    "date": "2024-09-18",
    "temperatureC": -2,
    "temperatureF": 29,
    "summary": "Fresquito"
  },
  {
    "date": "2024-09-19",
    "temperatureC": 16,
    "temperatureF": 60,
    "summary": "Helado"
  },
  {
    "date": "2024-09-20",
    "temperatureC": -15,
    "temperatureF": 6,
    "summary": "Caloron"
  },
  {
    "date": "2024-09-21",
    "temperatureC": 43,
    "temperatureF": 109,
    "summary": "Fresco"
  },
  {
    "date": "2024-09-22",
    "temperatureC": 1,
    "temperatureF": 33,
    "summary": "Fresquito"
  },
  {
    "date": "2024-09-23",
    "temperatureC": 46,
    "temperatureF": 114,
    "summary": "Mild"
  },
  {
    "date": "2024-09-24",
    "temperatureC": 40,
    "temperatureF": 103,
    "summary": "Helado"
  },
  {
    "date": "2024-09-25",
    "temperatureC": 17,
    "temperatureF": 62,
    "summary": "Scorching"
  }
}
```

4.14. Realizar un pipeline (no release) que incluya el deploy a QA y a PROD con una aprobación manual. El pipeline debe estar construido en YAML sin utilizar el editor clásico de pipelines ni el editor clásico de pipelines de release.

New pipeline



✓ Connect

Select

Configure

Review


New pipeline

Select a repository

Filter by keywords

sample02

✕

 sample02

✓ Connect


✓ Select

Configure


Review

New pipeline


Configure your pipeline

 Docker


Build a Docker image

 Docker

Build and push an image to Azure Container Registry

 Deploy to Azure Kubernetes Service

Build and push image to Azure Container Registry; Deploy to Azure Kubernetes Service

 ASP.NET

Build and test ASP.NET projects.

✓ Connect

✓ Select

✓ Configure

Review

New pipeline

Review your pipeline YAML

Variables

Save and run

sample02 / azure-pipelines-1.yml

Show assistant

```
1
2 trigger:
3   - main
4
5 pool:
6   vmImage: 'ubuntu-latest'
7
8 variables:
9   solution: 'SimpleWebAPI.sln'
10  buildPlatform: 'Any CPU'
11  buildConfiguration: 'Release'
12  ConnectedServiceName: 'Azure subscription 1 (d5341073c-194f-47d6-9c70-69c9a32cbcdf)'
13  WebAppKind: 'webApp'
14  DevWebAppName: 'MiWebApp01'
15  ProdWebAppName: 'MiWebApp01-PROD'
16
17 stages:
18   - stage: Build
19     displayName: 'Build Application'
20     jobs:
21       - job: Build
22         displayName: 'Build Application'
23         steps:
24           - task: UseDotNet@2
25             inputs:
26               packageType: sdk
27               version: '8.x'
28               installationPath: $(Agent.ToolsDirectory)/dotnet
29
```


#20240915.3 • Update azure-pipelines-1.yml for Azure Pipelines

sample02 (5)

Cancel

SummaryCode Coverage

Manually run by 1 1803161

View 46 changes

Repository and version

sample02

main ↗ 6220c678

Time started and elapsed

Today at 20:04

2m 39s

Related

0 work items

1 published

Tests and coverage

Get started

This pipeline needs permission to access a resource before this run can continue to Deploy to QA

View

StagesJobs

Build Application

1 job completed

1 artifact

41s

Deploy to QA

Waiting

Permission needed

Deploy to Production

Not started

Waiting for review

Deploy to QA

Per... Service... Azure subscription 1 (5341073...

Permission needed

Permit

#20240915.3 • Update azure-pipelines-1.yml for Azure Pipelines

sample02 (5)

Cancel

SummaryAssociated pipelinesCode Coverage

Manually run by 1 1803161

View 46 changes

Repository and version

sample02

main ↗ 6220c678

Time started and elapsed

Yesterday at 20:04

4h 16m 51s

Related

0 work items

1 published

Tests and coverage

Get started

This pipeline needs permission to access a resource before this run can continue to Deploy to Production

View

StagesJobs

Build Application

1 job completed

1 artifact

41s

Deploy to QA

1 job completed

31s

Deploy to Production

Waiting

Permission needed

Waiting for review

Deploy to Production

Permission Environment Production

Permission needed

Permit

#20240915.3 • Update azure-pipelines-1.yml for Azure Pipelines

Run new

sample02 (5)

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

View retention leases

Summary

Environments

Associated pipelines

Code Coverage

Manually run by 1 1803161

View 46 changes

Repository and version

◆ sample02

🔖 main ◆ 6220c678

Time started and elapsed

🕒 Yesterday at 20:04

⌚ 4h 19m 43s

Related

📁 0 work items

📄 1 published

Tests and coverage

📄 Get started

Stages

Jobs

✔ Build Application

1 job completed 41s

📄 1 artifact

✔ Deploy to QA

1 job completed 31s

✔ Deploy to Production

1 job completed 43s