

Práctica final - Entrega Continua (CD)

Actividad 2: Entrega Continua (CD)

1. Configuración del Entorno de Despliegue - Usa Azure App Service para el despliegue automatizado. - Configura la CD en Azure DevOps para desplegar cada vez que se actualiza la rama principal del repositorio.

Nuevo release -> new pipeline

The screenshot shows the Azure DevOps interface for the project 'Entrega-Final'. The left sidebar has a red box around the 'Releases' option under the 'Pipelines' category. The main area displays a message about the retirement of the macOS-13 hosted image and a warning about the Windows-2019 hosted image. Below this is a cartoon illustration of a person and a dog at a launch pad. The text 'No release pipelines found' is centered, followed by a call-to-action: 'Automate your release process in a few easy steps with a new pipeline' and a prominent blue 'New pipeline' button, which also has a red box around it.

Seleccionar template-> Azure Appservice

The screenshot shows the Azure DevOps pipeline creation interface. On the left, there's a preview of the pipeline structure with sections for 'Artifacts' and 'Stages'. The 'Stages' section shows 'Stage 1' with a placeholder 'Select a template'. On the right, a 'Select a template' pane is open, titled 'Featured'. It lists several options, with the first one, 'Azure App Service deployment', highlighted with a red border. This option is described as deploying an application to Azure App Service, choosing from Web App on Windows, Linux containers, Function Apps, or WebJobs.

Seleccionar task-> configurar parámetros de Azure Appservice

The screenshot shows the configuration of 'Stage 1' in the pipeline. Under the 'Tasks' tab, the 'Deploy Azure App Service' task is selected. The configuration pane shows the 'Azure subscription' dropdown set to 'Azure for Students (860c077a-830c-4773-a65a-467582c937ed)', which is highlighted with a red border. Below it, the 'App type' is set to 'Web App on Windows', and the 'App service name' is set to 'Entrega-5', also highlighted with a red border. A note at the bottom states: 'This field is linked to 1 setting in "Deploy Azure App Service"'.

Seleccionar pipeline-> configurar artefactos -> configurar los parámetros
-> add

The screenshot shows the 'New release pipeline' configuration in Azure DevOps. On the left, there's a summary of artifacts and stages. An 'Add an artifact' button is highlighted with a red box. On the right, a modal window titled 'ADD ARTIFACT' is open, showing options for 'Source type'. The 'Build' option is selected and highlighted with a red box. Below it, other options like 'Azure Repos ...', 'GitHub', and 'TFVC' are shown. The main pipeline details are visible in the background.

Seleccionar save -> escoger carpeta en este caso la raiz -> create release-> diligencias los campos requeridos

The screenshot shows a 'Save' dialog box. It has a dropdown menu labeled 'Folder *' which is currently set to '\ All pipelines'. There is also a 'Comment' field and two buttons at the bottom: 'OK' and 'Cancel'.

Create a new release

New release pipeline (1)

Pipeline ^
Click on a stage to change its trigger from automated to manual.

Stage 1

Stages for a trigger change from automated to manual. ⓘ

Stage 1

Artifacts ^
Select the version for the artifact sources for this release.

Source alias	Version
Jneox-684.EntregaFinalDespliegue	20251126.5

Release description

prueba

Create **Cancel**

The screenshot shows the 'Create a new release' dialog box. At the top, it says 'Create a new release' and 'New release pipeline (1)'. Below that is a section titled 'Pipeline' with a note to click on a stage to change its trigger from automated to manual. A single stage named 'Stage 1' is listed. Under 'Artifacts', there's a table showing a single source alias 'Jneox-684.EntregaFinalDespliegue' with version '20251126.5'. The 'Release description' field contains the text 'prueba'. At the bottom are 'Create' and 'Cancel' buttons.

Se observa proceso de nuestro realce

All pipelines

Releases

Releases	Release pipeline	Created	Stages
Release-1 20251126... IP main	New release pipeline (1)	26/11/2025, 20:50:06	<input type="radio"/> Stage 1
Release-6 20251126... IP main	New release pipeline	25/11/2025, 21:36:52	<input checked="" type="radio"/> Stage 1

The screenshot shows the 'Logs' tab of an Azure DevOps pipeline. On the left, under 'Deployment process', there is a section titled 'Run on agent' with the status 'Succeeded'. On the right, under 'Run on agent', it says 'Pool: Hosted Windows 2019 with ... - Agent: Hosted Agent'. Below this, four log entries are listed, each with a green checkmark and the status 'succeeded': 'Initialize job', 'Download artifact - _Inekx-684.EntregaFinalDespliegue - drop', 'Deploy Azure App Service', and 'Finalize Job'.

2. Automatización del Despliegue - Verifica que el despliegue se realice sin intervención manual. - Asegúrate de que la app esté funcional y accesible en Azure tras cada cambio.

The screenshot shows the 'Edit' tab of a GitHub commit editor for the file 'Program.cs'. The code is as follows:

```
28     padding: 0.5rem 1rem;
29     border-radius: 6px;
30     border: 1px solid #ccc;
31     cursor: pointer;
32   }
33 </style>
34 </head>
35 <body>
36   <div class=""card"">
37     <h1>Prueba de commit</h1>
38     <p>Esta es una aplicación web básica funcional, ejecutándose en Visual Studio 2022.</p>
39     <button onclick=""alert('¡La aplicación funciona correctamente!')"">
40       Probar
41     </button>
42   </div>
43 </body>
44 </html>";
45
46 context.Response.ContentType = "text/html; charset=utf-8";
47 await context.Response.WriteAsync(html);
48 });
49
50 app.MapGet("/saludo", () => "Hola desde /saludo");
51
52 app.Run();
```

Pipelines

Recent All Runs

Recently run pipelines

Pipeline	Last run
Inekx-684.EntregaFinalDespliegue (4)	#20251127.4 • Prueba de commit Individual CI for main
Inekx-684.EntregaFinalDespliegue	#20251127.3 • Prueba de commit Individual CI for main

← Jobs in run #20251127.4

Inekx-684.EntregaFinalDespliegue (4)

Jobs

- Job 1m 34s
 - Initialize job 9s
 - Checkout Inekx-684/EntregaFinal... 5s
 - Instalar .NET SDK 9 43s
 - Información de .NET 4s
 - dotnet restore 5s
 - dotnet build Release 16s
 - Instalar EF Core CLI 9 3s
 - Publicar aplicación 4s
 - Publicar artefactos
 - Post-job: Checkout Inekx-684/Entre... 0s

Publicar aplicación

```
1 Starting: Publicar aplicación
2 =====
3 Task       : .NET Core
4 Description : Build, test, package, or publish a dotnet
5 Version    : 2.264.1
6 Author     : Microsoft Corporation
7 Help       : https://docs.microsoft.com/azure/devops/
8 =====
9 C:\Windows\system32\chcp.com 65001
10 Active code page: 65001
11 Info: .NET Core SDK/runtime 2.2 and 3.0 are now End of
12 C:\hostedtoolcache\windows\dotnet\dotnet.exe publish D:
13 Determining projects to restore...
```

New release pipeline

Stage 1

M	Release-9 20251127.... main	26/11/2025, 21:28:27	<input type="checkbox"/> Stage 1
M	Release-8 20251127.... main	26/11/2025, 21:21:08	<input checked="" type="checkbox"/> Stage 1
M	Release-7 20251127.... main	26/11/2025, 21:13:43	<input checked="" type="checkbox"/> Stage 1
	Release-6 20251126.... main	25/11/2025, 21:36:52	<input checked="" type="checkbox"/> Stage 1

New release pipeline > Release-8 > Stage 1 < In progress

Pipeline Tasks Variables Logs Tests Deploy Cancel Refresh Download all logs Edit ...

Deployment process In progress

Run on agent Pool: Hosted Windows 2019 with ... - Agent: Hosted Agent

Run on agent In progress

Initialize job succeeded

Download artifact FinalDespliegue - drop succeeded

Deploy Azure App Service

```
Starting: Deploy Azure App Service
-----
Task : Azure App Service deploy
Description : Deploy to Azure App Service a web, mobile, or API app using Docker, Java, .NET, .NET Core, Node.js, PHP, Python, or Ruby
Version : 4.260.0
Author : Microsoft Corporation
Help : https://aka.ms/azureappservice/troubleshooting
-----
Got service connection details for Azure App Service: Entrega-5
Trying to update App Service Application settings. Data: {"WEBSITE_RUN_FROM_PACKAGE": "1"}
App Service Application settings are already present.
Package deployment using ZIP Deploy initiated.
Successfully deployed web package to App Service.
NOTE: Run From Package makes wwwroot read-only, so you will receive an error when writing files to this directory.
```

Comprobación



Problemas

- 1- Cuando se seleccionó el donet en el proceso de tareas, Luego de investigar, nos encontramos con que el donet no se recomienda para este proceso por lo cual se omite, y así funciona correctamente.

All pipelines > **New release pipeline**

Pipeline Tasks Variables Retention Options History

Stage 1
Deployment process

Run on agent
Run on agent

Deploy Azure App Service
Azure App Service deploy

dotnet build
.NET Core

Stages

Stage 1
Failed
dotnet build task failed on 25/11/2025, 9:19 p.m.

Stage 1
Failed

Summary Commits Work Items View logs

Now at Release-1
View all deployments

Deployment failed on 25/11/2025, 9:19 p.m. • Ran for 1m 41s

Run on agent - Failed
dotnet build failed
2 errors, 1 warning ^
Error: The process 'C:\Program Files\dotnet\dotnet.exe' failed with exit code 1
Dotnet command failed with non-zero exit code on the following projects : ['']
.NET 5 has some compatibility issues with older NuGet versions(<=5.7), so if you are using an older NuGet version(and no...)

Manual trigger
Deployment triggered by FEDERICO RODRÍGUEZ FRANCO on 25/11/2025, 9:17 p.m.

Deployment process
Failed

Run on agent
Failed - 2 errors 1 warning

Run on agent
Pool: Hosted Windows 2019 with ... · Agent: Hosted Agent

- Initialize job · succeeded
- Download artifact - _Inekx-684.EntregaFinalDespliegue - drop · succeeded
- Deploy Azure App Service · succeeded
- dotnet build · 2 errors 1 warning
 - Error: The process 'C:\Program Files\dotnet\dotnet.exe' failed with exit code 1
 - Dotnet command failed with non-zero exit code on the following projects : ['']
- Finalize Job · succeeded