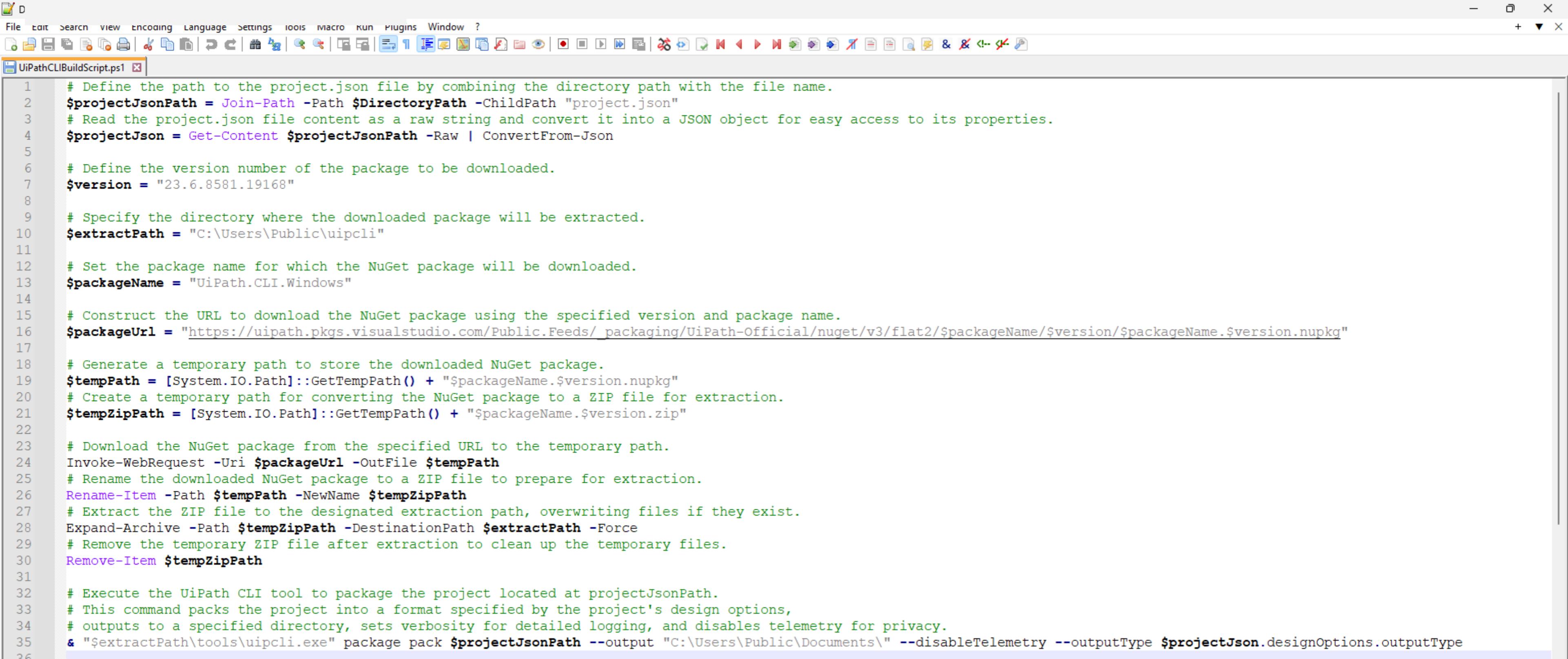


CI/CD pipelines for UiPath RPA projects

Building Packages
Exploring lesser-known methods



A screenshot of a PowerShell IDE showing a script named `UiPathCLIBuildScript.ps1`. The script is a PowerShell script (PS1) used to build a package for the UiPath CLI. It starts by defining the path to the `project.json` file, reading its content as a JSON object, and then defining the version number. It specifies the extraction directory and the package name. It constructs the URL to download the NuGet package, generates a temporary path for the download, and then renames it to a ZIP file. The ZIP file is then extracted to the specified path. Finally, the temporary ZIP file is removed, and the `uipcli.exe` tool is used to package the project into a format specified by the design options.

```
1 # Define the path to the project.json file by combining the directory path with the file name.
2 $projectJsonPath = Join-Path -Path $directoryPath -ChildPath "project.json"
3 # Read the project.json file content as a raw string and convert it into a JSON object for easy access to its properties.
4 $projectJson = Get-Content $projectJsonPath -Raw | ConvertFrom-Json
5
6 # Define the version number of the package to be downloaded.
7 $version = "23.6.8581.19168"
8
9 # Specify the directory where the downloaded package will be extracted.
10 $extractPath = "C:\Users\Public\uipcli"
11
12 # Set the package name for which the NuGet package will be downloaded.
13 $packageName = "UiPath.CLI.Windows"
14
15 # Construct the URL to download the NuGet package using the specified version and package name.
16 $packageUrl = "https://uipath.pkgs.visualstudio.com/Public.Feeds/_packaging/UiPath-Official/nuget/v3/flat2/$packageName/$version/$packageName.$version.nupkg"
17
18 # Generate a temporary path to store the downloaded NuGet package.
19 $tempPath = [System.IO.Path]::GetTempPath() + "$packageName.$version.nupkg"
20 # Create a temporary path for converting the NuGet package to a ZIP file for extraction.
21 $tempZipPath = [System.IO.Path]::GetTempPath() + "$packageName.$version.zip"
22
23 # Download the NuGet package from the specified URL to the temporary path.
24 Invoke-WebRequest -Uri $packageUrl -OutFile $tempPath
25 # Rename the downloaded NuGet package to a ZIP file to prepare for extraction.
26 Rename-Item -Path $tempPath -NewName $tempZipPath
27 # Extract the ZIP file to the designated extraction path, overwriting files if they exist.
28 Expand-Archive -Path $tempZipPath -DestinationPath $extractPath -Force
29 # Remove the temporary ZIP file after extraction to clean up the temporary files.
30 Remove-Item $tempZipPath
31
32 # Execute the UiPath CLI tool to package the project located at projectJsonPath.
33 # This command packs the project into a format specified by the project's design options,
34 # outputs to a specified directory, sets verbosity for detailed logging, and disables telemetry for privacy.
35 & "$extractPath\tools\uipcli.exe" package pack $projectJsonPath --output "C:\Users\Public\Documents\" --disableTelemetry --outputType $projectJson.designOptions.outputType
36
```

Minimal Build Implementation as PowerShell script

```
1  "versions": [
2    "23.10.8753.32995",
3    "23.10.8748.26221",
4    "23.6.8581.19168",
5    "23.4.8853.17107",
6    "23.2.8467.25277",
7    "22.10.8467.18097",
8    "22.10.8438.32859",
9    "22.10.8432.18709",
10   "22.10.8418.30339",
11   "22.10.8418.28788",
12   "22.10.8417.12290",
13   "22.10.8378.25430",
14   "22.10.8378.21616",
15   "22.10.8375.23003",
16   "22.10.8361.9498",
17   "22.10.8341.16501",
18   "22.10.8335.19969"
19 ]
20 ]
21 ]
```

Available Versions

HOME DESIGN DEBUG

Cut Undo

New Save Export As Paste

Manage Packages

Manage Entities

Test Manager

App/Web Recorder

Computer Vision

User Events

Table Extraction

UI Explorer

Remove Unused

Analyze File

Export to Excel

Publish

Project

Search project (Ctrl+Alt+P)

FrozenChlorine

- Dependencies (Windows)
- Entities
- Templates
- Objects
- Test Data
- Data
- Documentation
- Framework
- Process
- RnD
- Scripts
- Tests
- .gitattributes
- .gitignore
- AUTHORS.md
- LICENCE.md
- PathKeeper.xaml
- project.json
- StandardCalculator.xaml

Test Explorer

Search files (Ctrl+Alt+T)

ParseTermToList

- TestCase_Unit_ParseTermToList (4)

PathKeeper

- TestCase_PathKeeper

StandardCalculator

- TestCase_EndToEnd_StandardCalculator...
- AdditionOf2Terms
- ClickListOfCharacters
- CloseAllApplications
- InitAllApplications
- InitAllSettings
- Initialization
- KillAllProcesses
- ResetCalculator
- RnD_gitkeep
- RnD_StringContainsNegate
- Teardown

Test Results

Activity Cov...

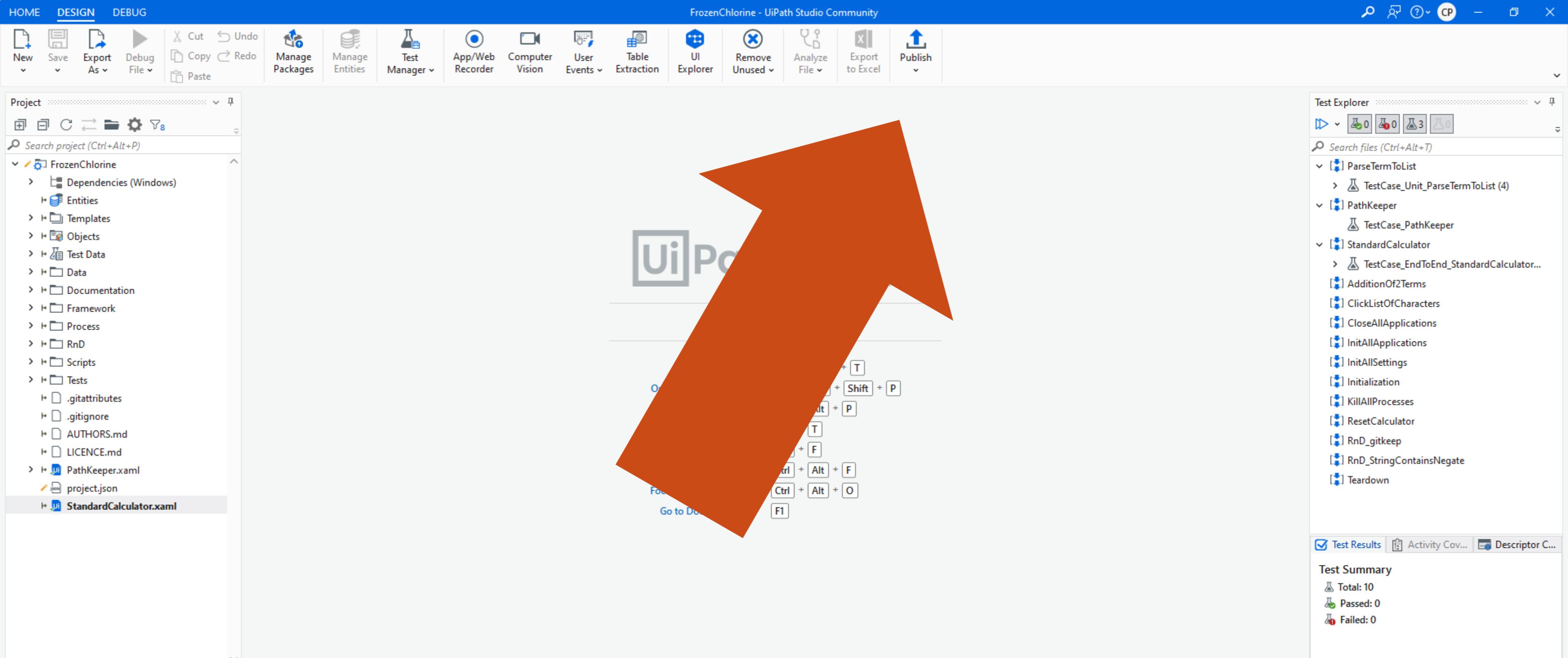
Descriptor C...

Test Summary

Total: 10

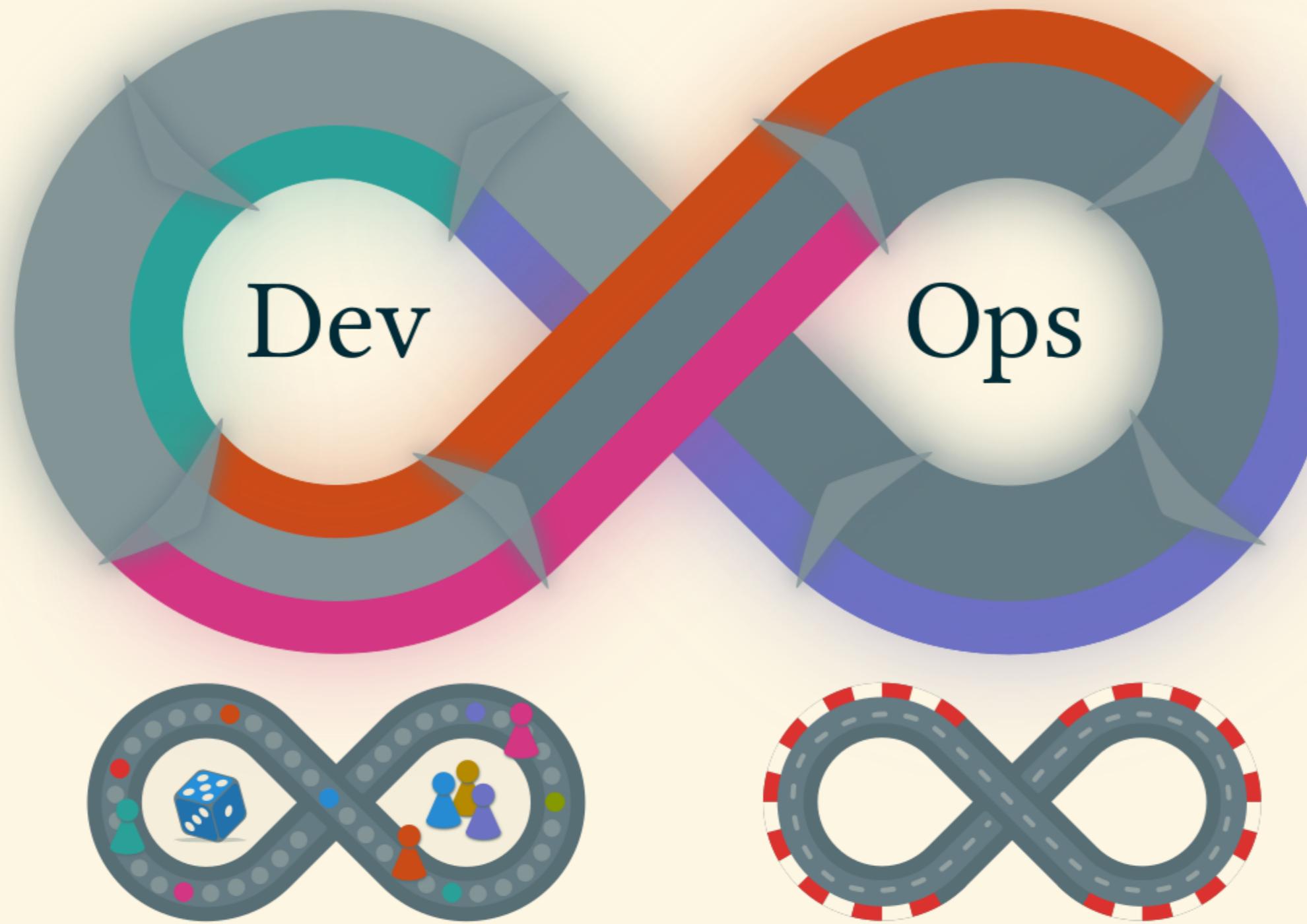
Passed: 0

Failed: 0



CI/CE Pipelines make "Publish" obsolete

Don't gamble towards releases



Next steps

automated builds after each `git push`