Documentation on Performer-VM

Version Number:1.1

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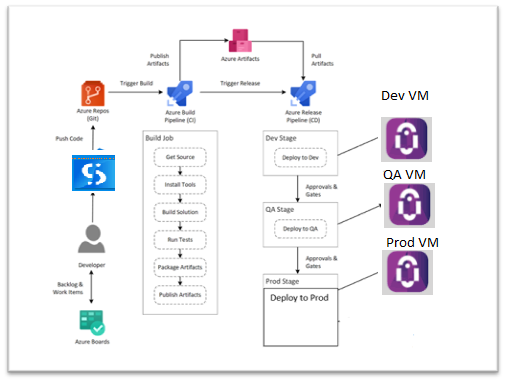
# Introduction:

This is the documentation for the Performer-VM. It includes the build and release pipeline processes. Build pipelines include Nuget-related tasks, artifact generation, etc. Once the build is successful, the release pipeline starts triggering it.

# Scope:

* CI/CD is used because code can be easily deployed into a specific environment in a short period of time.
* Through the build pipeline, we can generate the artifacts, and through the release pipeline, we are able to deploy them in a specific location with the required changes.

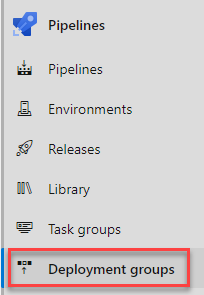
# CI/CD Architecture:



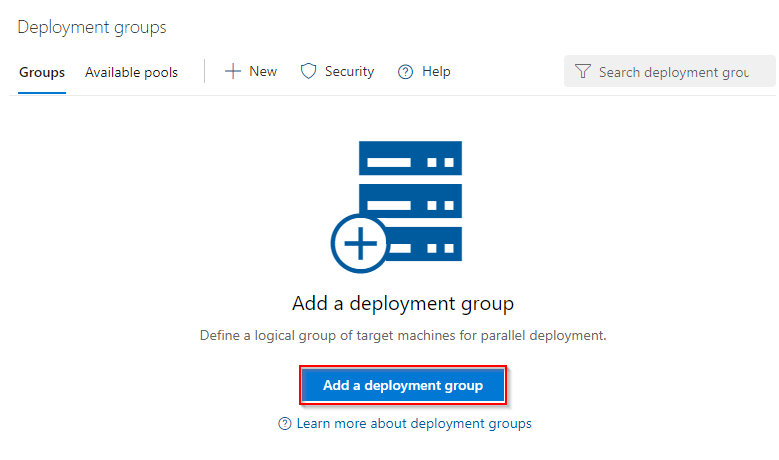
## Deployment Group

A deployment group is a logical set of deployment target machines that have agents installed on each one.

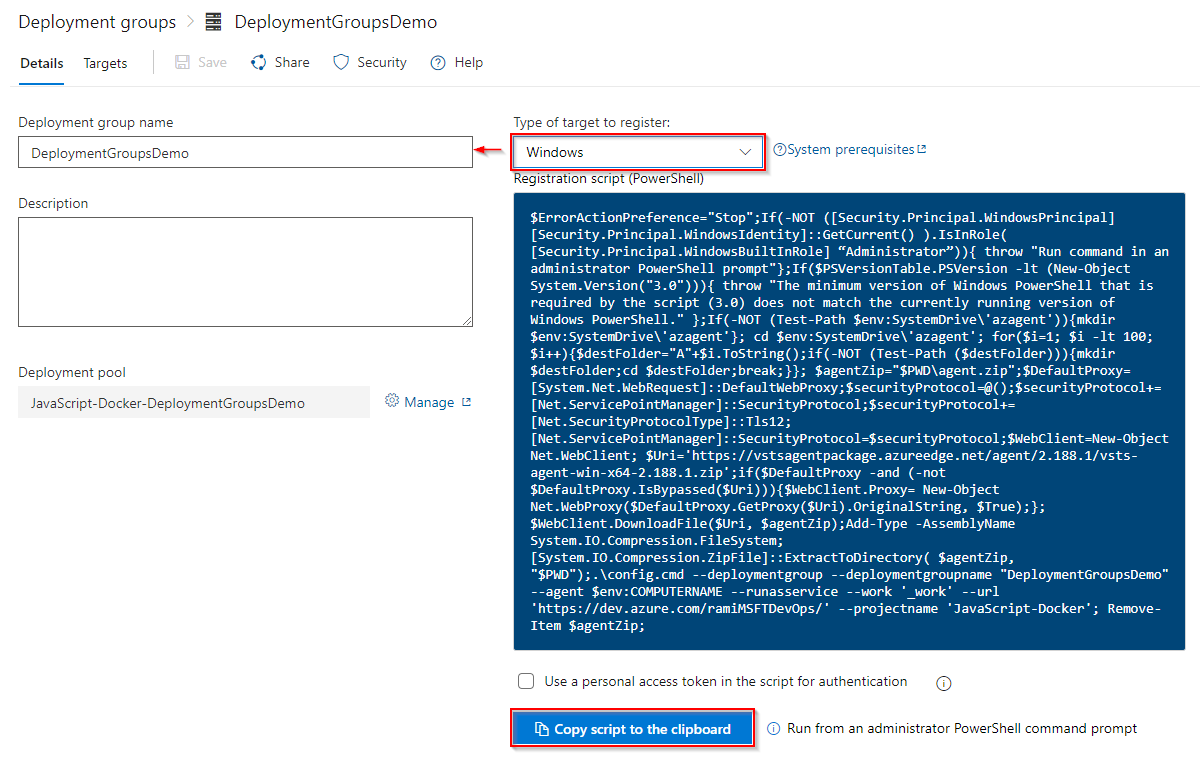
1. Create a deployment group.



1. Select Add a deployment group

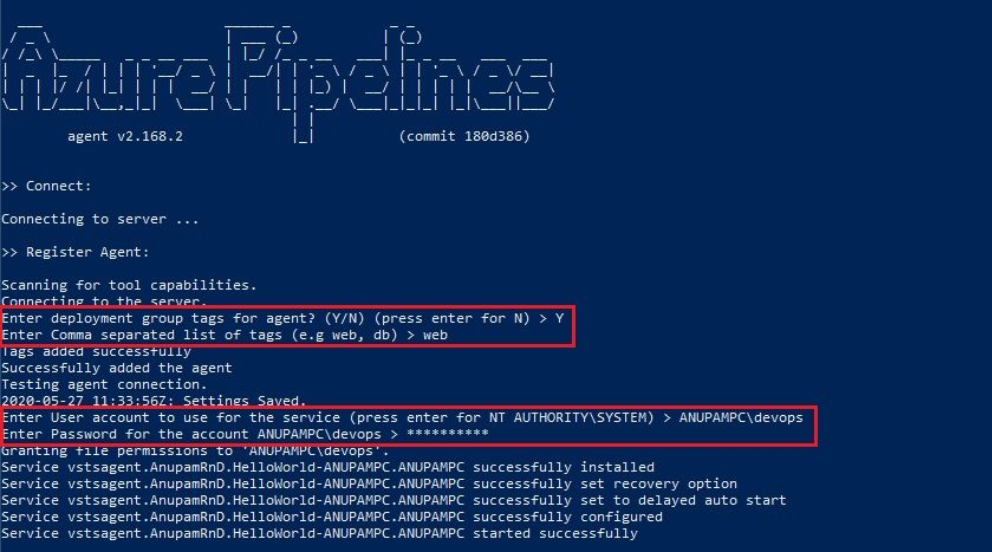


1. Enter a Deployment group name and then select Create. A registration script will be generated. Select the Type of target to register and then select Use a personal access token in the script for authentication. Finally, select Copy script to the clipboard.

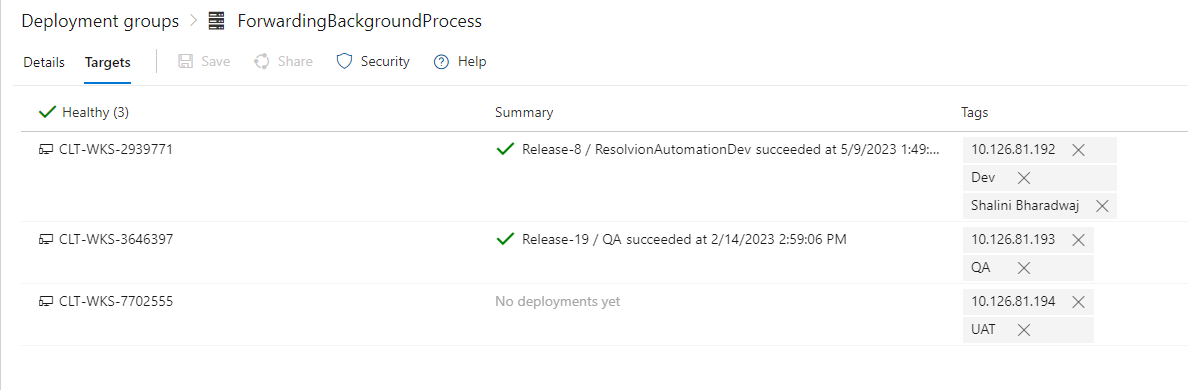


At this stage our deployment group is created but not online yet.

1. Log onto each of your target machines and run the script from an elevated PowerShell command prompt to register it as a target server. When prompted to enter tags for your agent, press Y and enter the tag(s) you will use to filter subsets of the servers.



At this stage, our deployment group creation gets completed and now if you go and check the status of the deployment group in the Azure DevOps, it should show as Online.



# Build Pipeline for Performer-orchas

Steps:

1) Navigate the page to Pipelines and click on the “New Pipeline”.

A screenshot of a computer

Description automatically generated with low confidence

2) Click on the “Use the classic editor”.

A screenshot of a computer

Description automatically generated with medium confidence

3) Select the Source as “Azure Repos Git” and followed by Project, Repository and branch.

A screenshot of a computer

Description automatically generated with medium confidence

4)Select the template as “YAML”

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Description automatically generated with medium confidence

## Pipelines:

We are using Azure pipelines (Microsoft hosted agent) as the agent pool for this pipeline. Microsoft-window-latest OS version will be used in the agent.

A picture containing text, font, screenshot

Description automatically generated

### Tasks:

### Publish Artifact

Publish Artifact is necessary for an automated deployment. This step publishes all the files which you want to deploy later in the release pipeline.

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Description automatically generated with low confidence

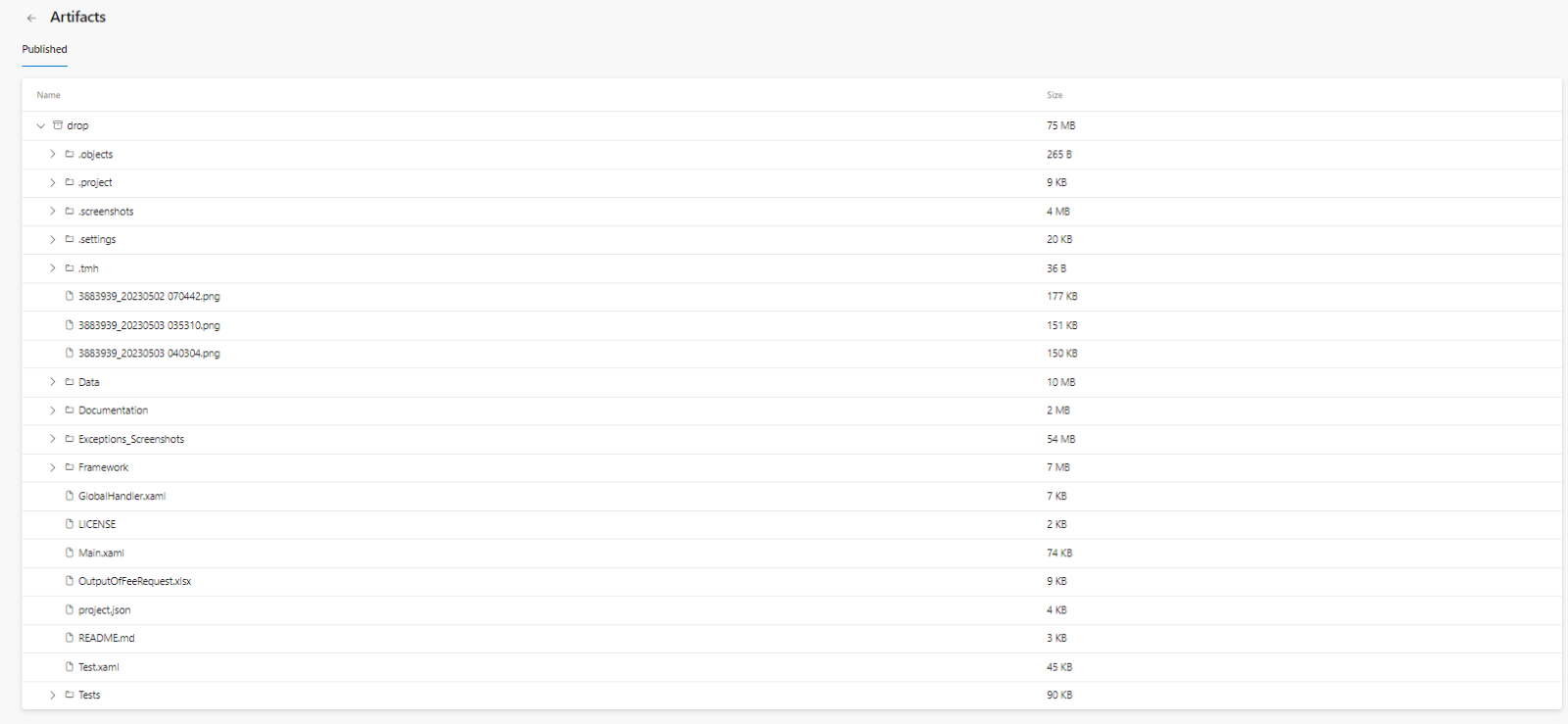
### Triggers:-

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# Validation

So, here “drop’ folder should include the following files:



Release pipeline for Performer-VM

## Steps:

1) Navigate to release pipelines and click on “New “so as to create a new release pipeline which will be Dispatcher-VM in this case.

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Description automatically generated with medium confidence

2) Select an empty job because we need to add customized jobs later which will support our project’s needs and functionality.

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Description automatically generated with low confidence

3)Before customizing the jobs, we will need to add the artifact that was built through our build Studio pipeline. So, click on “Add an artifact” and then select the build Studio pipeline which produced the artifact that is going to get used in this release pipeline.

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Description automatically generated with low confidence

4) As soon as the artifact is added, we must customize jobs according to the functionality of the project.

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Description automatically generated

## Continuous deployment trigger:

Continuous deployment triggers allow you to create a release every time a new build artifact is available.

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Description automatically generated with medium confidence

Note -A release will be triggered only for a build that is from one of the branches selected here.  For example, selecting "DEV" will trigger a release for every build from the DEV branch.

## Pull request trigger

Enabling this will create a release every time a selected artifact is available as part of a pull request workflow.

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## Pre-deployment conditions :

Pre-deployment gates ensures there are no active issues in the work item or problem management system before deploying a build to an environment.

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Note –

* Triggers - Set the trigger that will start the deployment to this stage automatically. Select "Release" to deploy to the stage every time a new release is created. Use the "Stage" option to deploy after deployments to selected stages are successful. To allow only manual deployments, select "Manual".
* Artifact filters - Select artifact condition(s) to trigger a new deployment. A release will be deployed to this stage only if all artifact conditions match.

Pre-deployment approvals –

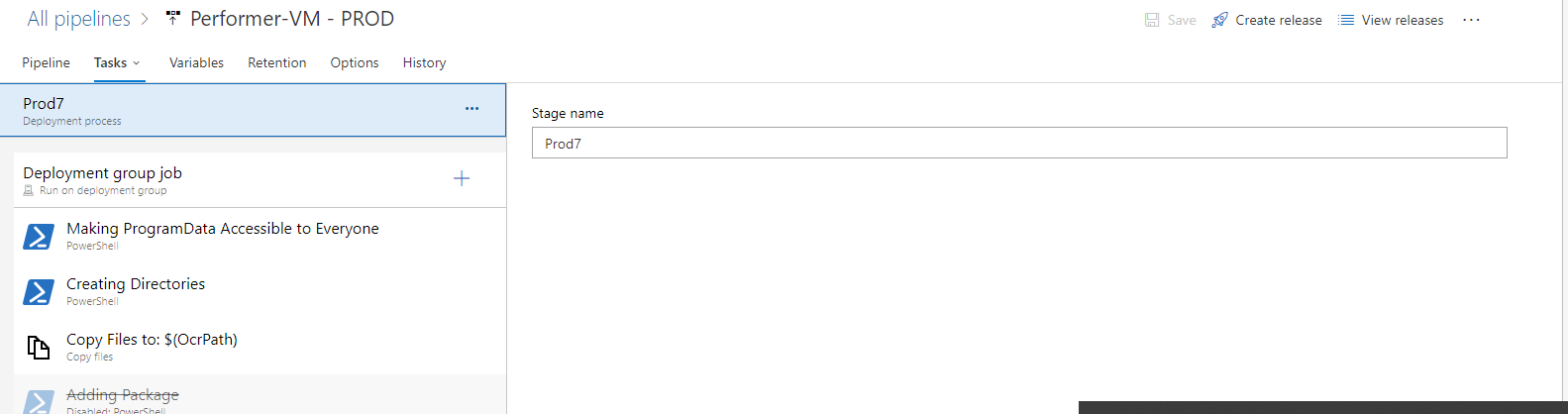
Select the users who can approve or reject deployments to this stage.

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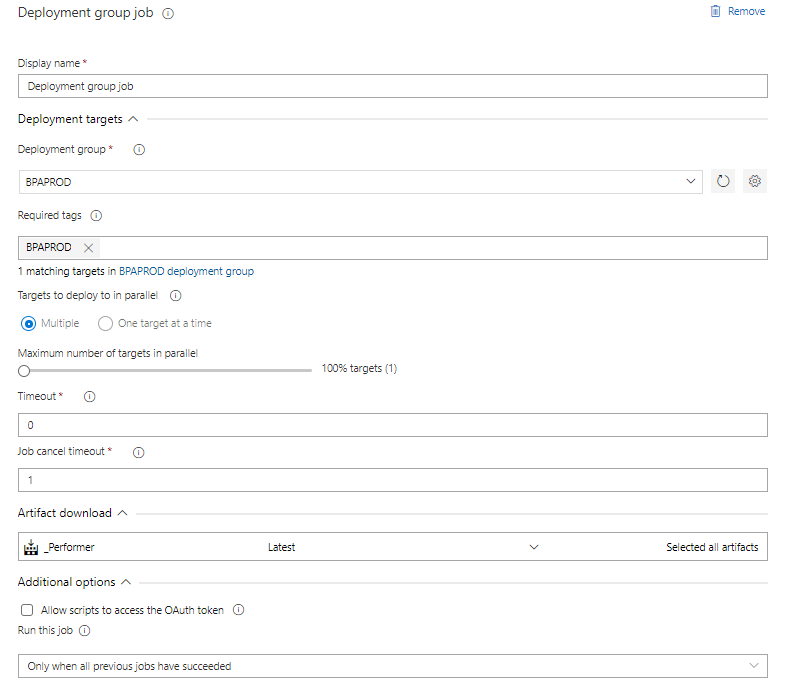
## Tasks:

1. We must provide Stage Name, Azure subscription and App type and Name.



## Agent Job:

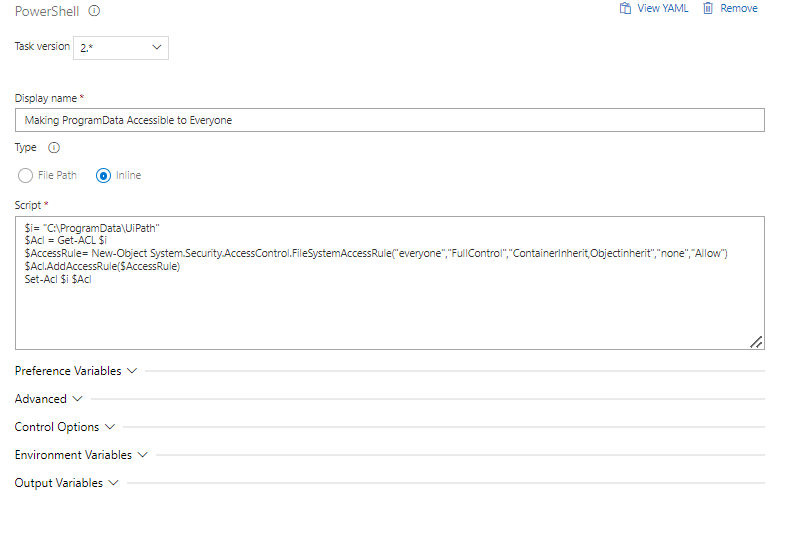
A job is a logical grouping of tasks that defines the runtime target on which the tasks will execute. An agent job executes tasks on an agent in an agent pool.



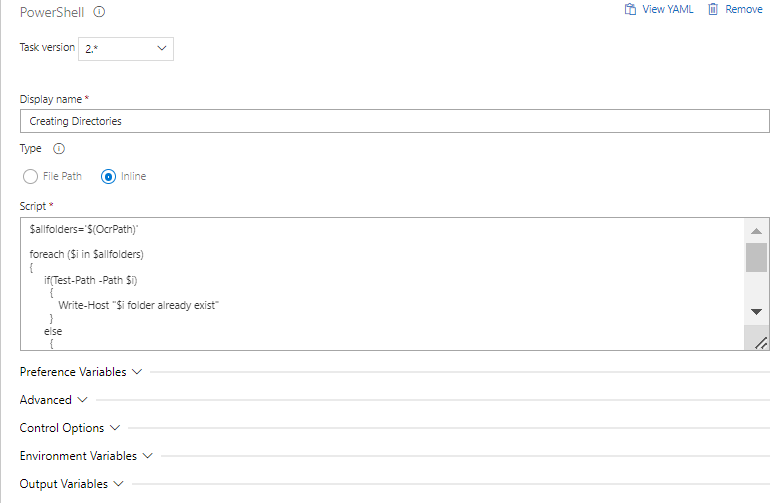
## Azure powershell script:Inline Script

The PowerShell task allows you to add PowerShell code directly within the YAML pipeline or execute an existing script in the source repo .

1. Making ProgramData Accessible to Everyone.



1. Create Directories - This task for creating Directories.



## Copy files –

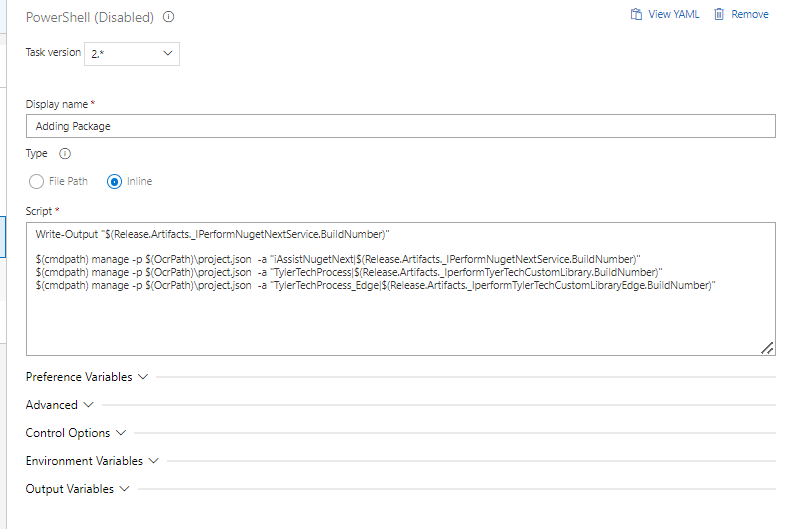
Copying of files from source folder to target folder. $(system.defaultworkingdirectory) to $(UiPath Studio.artifactstagingdirectory).

1. Copy Files to: $(OcrPath)

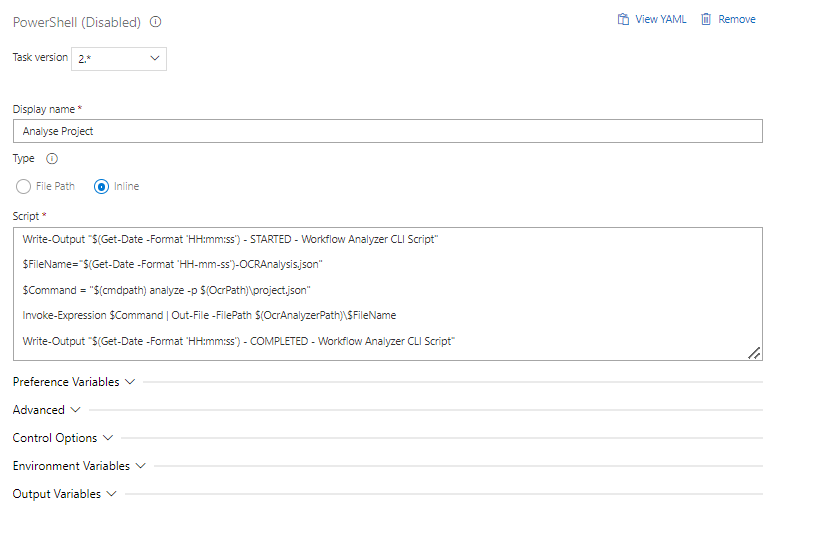


## Azure powershell script:Inline Script

1. Add Package - This task for add package for build numbers.



1. Analyse Script - This task for Analysis the Workflow.



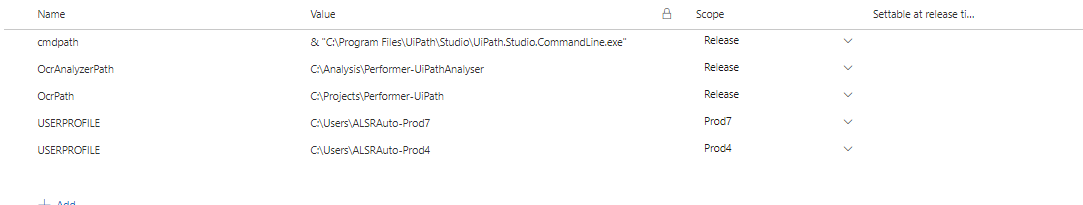
Note :

* Analysis script: currently disable because Uipath code having lots of warning and error which only effect code quality already informed to dev team once they fix we will enable it.

Publish Project –This task for publish the projectGraphical user interface, text, application, email

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## Variables:



# Validation

# Once the release is successful, we check on the VM.

# Revision History

|  |  |  |  |
| --- | --- | --- | --- |
| **Date** | **Version** | **Description** | **Author** |
| **05/11/2023** | 1.0 | **Draft and Initial** | **Atul Sikarwal** |
| 05/18/2023 | 1.1 | **Review** | Sourabha M |