

Create Azure YAML Pipeline - Python Automation

This Script creates the Azure YAML Pipeline using the yml file in the Repository

Overview

This Jenkins job is designed to create an Azure Pipeline within Abbvie Azure DevOps using a YAML file from the repository. The input for this script is sourced from the "OAD_Azure_PipelineCreation_List.CSV" file. It is crucial to ensure that both the repository names and pipeline names commence with "abbvie-ous-" as the pipeline will not be generated otherwise.

Functionality

The Jenkins job executes the following key functions:

Azure Pipeline Creation:

Utilizes a Python script to dynamically generate an Azure Pipeline using a YAML file from the repository.

Input Source:

Takes input from the "OAD_Azure_PipelineCreation_List.CSV" file, specifying the repository and pipeline details.

Validation:

Verifies that both the repository and pipeline names commence with "abbvie-ous-" for successful pipeline generation.

Script Details

Script Author:

Authored by Kumar, Sasi.

Authentication:

The script relies on Azure Personal Access Token (PAT) authentication. The current PAT is set to expire on **March 18, 2024, at 9 AM CST**.

Usage Instructions

Triggering the Job:

Manually trigger the Jenkins job through the Jenkins interface or as part of an automated pipeline.

Input Source:

Ensure that the "OAD_Azure_PipelineCreation_List.CSV" file is populated with the necessary repository and pipeline details.

Output:

The resulting data is stored in a "OAD_Azure_PipelineCreation_Extracts.CSV" file containing summary URL and the folder path.

Dependencies

This Jenkins job has the following dependencies:

- Python (version 3.11)
- Azure Personal Access Token (PAT) with the necessary permissions
- YAML file in the repository with Azure Pipeline configuration

Example Usage

Manual Trigger:

Manually trigger the Jenkins job through the Jenkins interface or as part of an automated pipeline.

Review Output:

Check the Jenkins job console output for any errors or issues during the Azure Pipeline creation process.

Additional Notes

Validation Check:

It is crucial to ensure that both the repository and pipeline names commence with "abbvie-ous-" to successfully generate the Azure Pipeline.

Token Expiry:

The current Azure Personal Access Token (PAT) is set to expire on **March 18, 2024, at 9 AM CST**. Ensure timely renewal to avoid disruptions in authentication.

Script Maintenance:

Regularly review and update the script as needed to accommodate changes in repository configurations or access protocols.