On-Premise Azure DevOps Self-Hosted Agents

Afvikling af vores scripts uden lokal Task Scheduler og med koden i Azure Repos



You

Explain briefly, how we on our on-premise Azure DevOps can set a Self-Hosted Agent running a CopyFolder.ps1 cron job each day at mightnight. Please xplain in 10 lines. Also what happens behind the scenes.





ChatGPT

- Install Self-Hosted Agent: On your on-premise server, download and install the Azure DevOps self-hosted agent from your Azure DevOps organization's Agent Pools settings.
- Configure Agent: Follow the installation prompts to configure the agent, ensuring it's connected to your Azure DevOps organization and assigned to a specific agent pool.
- Create PowerShell Script: Place your `CopyFolder.ps1` script in a known directory on the server where the agent is installed.
- Commit Script to Azure Repos: If not already, commit the script to your Azure Repos within
 your project to maintain version control.
- 5. Create YAML Pipeline: In Azure DevOps, create a new pipeline (`copy-folder-pipeline.yml`) using the YAML syntax to define the cron schedule (`cron: "0 0 * * *"` for midnight execution), specify the self-hosted agent pool, and include a step to execute `CopyFolder.ps1`.
- Schedule with Cron: In the YAML pipeline, use the `schedules` section to set the cron job for midnight execution using `cron: "0 0 * * *".
- Pipeline Execution: Commit and push the YAML file to Azure Repos. Set up the pipeline in Azure DevOps to point to this YAML file.
- Automated Trigger: The pipeline is now set to automatically trigger at midnight every day, where Azure DevOps sends the job to the self-hosted agent.
- Behind the Scenes: At midnight, the self-hosted agent fetches the latest version of `CopyFolder.ps1` from Azure Repos, executes it on the local server, and reports the outcome back to Azure DevOps.
- Monitoring and Logs: You can monitor execution results, view logs, and manage pipeline configurations directly from Azure DevOps.

This setup leverages Azure DevOps for CI/CD with a self-hosted agent on your premises, automating script execution while maintaining control and visibility through Azure DevOps.



CI (testing)

```
Præsentation > ! ci.yml
  1 trigger:
         include:
          - main
       paths:
  5
       include:
    - PowerShellScripts/scripts/*
  6
  8
      name: 'YourAgentPoolName'
 10
     steps:
 12
 13
      - checkout: self
     - script:
 15
        Install-Module -Name PSScriptAnalyzer -Force -Scope CurrentUser
       displayName: 'Install Analysis Tools'
 17
 18
 19
      - script:
        # Run analysis on all rower shell setting.

Get-ChildItem -Path $(Build.SourcesDirectory)/
 20
 21
         PowerShellScripts/scripts/*.ps1 -Recurse
 22
 23
          ForEach-Object { Invoke-ScriptAnalyzer -Path $_.FullName }
     displayName: 'Analyze PowerShell Scripts'
 24
```

CD (cron jobs)

```
1
    schedules:
    - cron: "0 * * * *"
 3
     displayName: 'Hourly Copy Folder'
4
     branches:
      include:
5
6
        - main
 7
     always: true
8
9
    trigger: none
10
11 pool:
    name: 'YourAgentPoolName'
12
13
14 steps:
    - checkout: self
15
     - script:
16
17
       powershell -File $(Build.SourcesDirectory)/ `
18
        PowerShellScripts/scripts/CopyAFolder.ps1
     displayName: 'Copy A Folder'
19
20
```

Repo Struktur

```
Præsentation > ! struture.yml
       /PowerShellScripts
         ci.yml
  2
  3
           /scripts
               CopyAFolder.ps1
  5
               DeleteOldFile.ps1
               DuplicateFile.ps1
  6
  7
           /pipelines
               copy-a-folder-pipeline.yml
  8
               delete-old-file-pipeline.yml
  9
               duplicate-file-pipeline.yml
 10
```