CUSTOM AZURE DEVOPS EXTENSION

Talk Overview:

Write a Pipeline Task

Build & Test using ADOS

Deploy to VS Market using ADOS

Install & Run Task from Market onto ADOS

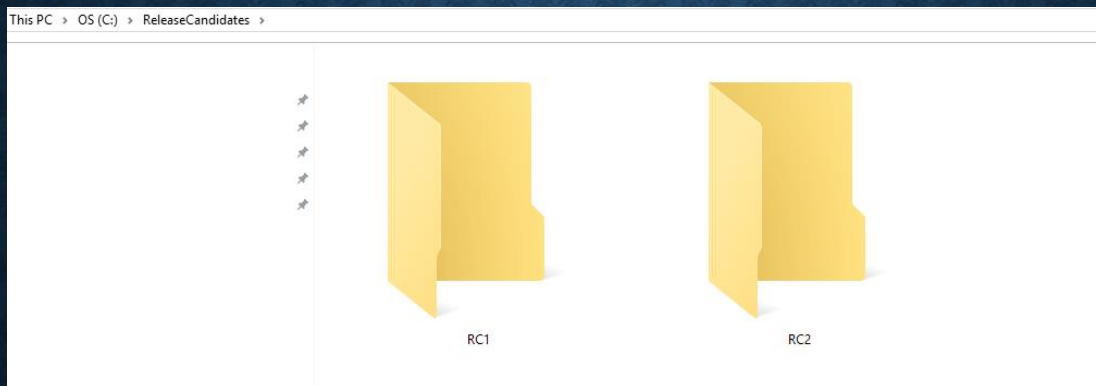Dushyant Priyadarshee

@dp7g09

https://github.com/dp7g09
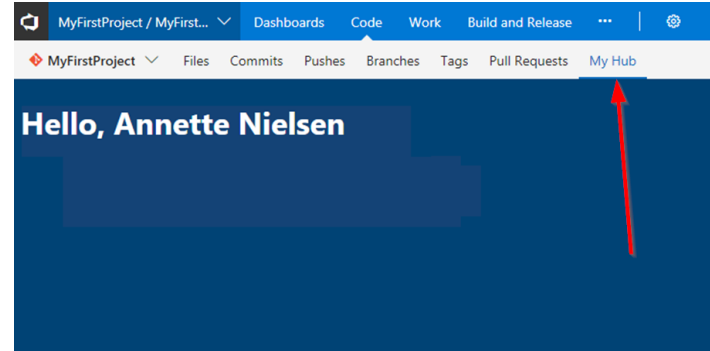
AZURE DEVOPS EXTENSIONS

WRITING CUSTOM PIPELINE TASK

- **Use Case**: Azure DevOps Build/Release Task. Set Azure DevOps variable(s) with next folder name incremented from existing names. E.g. RC3, if RC1 & RC2 already exist.

- https://github.com/dp7g09/azure-devops-nextfolder

- Essential documentation: https://docs.microsoft.com/en-gb/azure/devops/extend/develop/add-build-task?view=azure-devops

IMPORTANT FILES

IMPORTANT FILES

Branch: master ▾	New pull request	Create new file · Upload files · Find File · Clone or download ▾
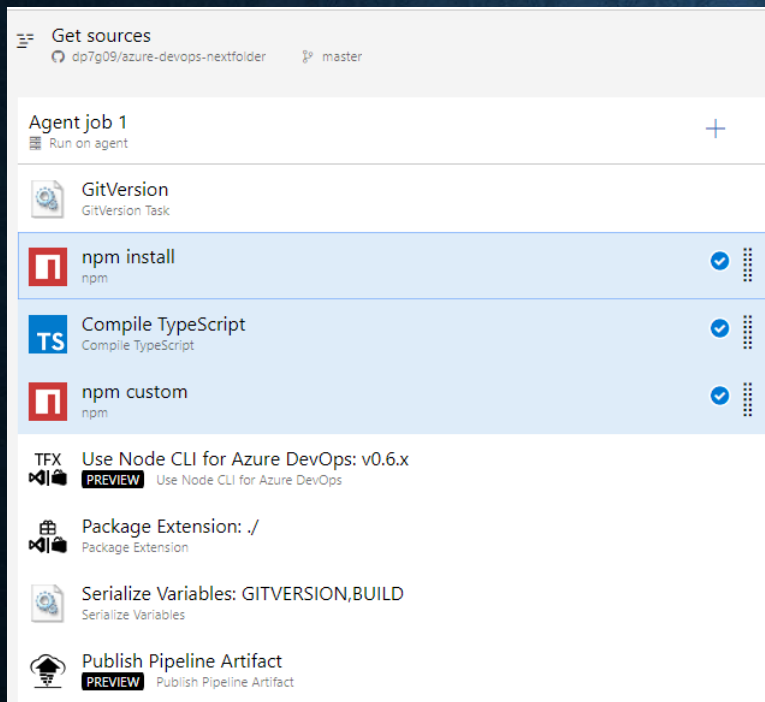
dp7g09 Merge pull request #5 from dp7g09/dp7g09-patch-1 ...   Latest commit 635f188 an hour ago

📁 images	Add initial implementation of build/release task.	9 days ago
📁 nextFolderNameTask	Specify tests for npm.	4 days ago
📄 .gitignore	Initial commit	9 days ago
📄 LICENSE	Initial commit	9 days ago
📄 README.md	Update README.md	an hour ago
📄 vss-extension.json	Update name.	9 days ago

```typescript
import tl = require('azure-pipelines-task-lib/task');
import { getDirItems } from './NextNameGenerator';

async function run() {
    try {
        const folderToCheck: string = tl.getInput('folderToCheck', true);
        const folderNamePrefix: string = tl.getInput('folderNamePrefix', true);

        var nextFolderName = getDirItems(folderToCheck, folderNamePrefix);
        tl.setVariable('NFN.NextFolderName', nextFolderName, false);
    }
    catch (err) {
        tl.setResult(tl.TaskResult.Failed, err.message);
    }
}
```

CI-CD WITH AZURE DEVOPS

VERSIONING

RELEASE TO MARKETPLACE

TESTING OUR EXTENSION

https://marketplace.visualstudio.com/items?itemName=dp7g09.next-folder-task

Visual Studio | Marketplace

Dushyant Priyadarshee (dp7g0'

Azure DevOps > Azure Pipelines > Folder Name Generator

Folder Name Generator | 🗎 Reports | ✏ Manage

Dushyant Priyadarshee | ⭳ 1 install | ★ ★ ★ ★ ★ (0) | Free

Set Azure DevOps variable(s) with next folder name incremented from existing names. E.g. RC3, if RC1 & RC2 already exist.

Get it free

Overview   Q & A   Rating & Review

Azure-devops-nextfolder

Azure DevOps Build/Release Task. Set Azure DevOps variable NFN.NextFolderName with next folder name incremented from existing names. E.g. RC3, if RC1 & RC2 already exist.

TESTING OUR EXTENSION

Agent job 1
Run on agent   +

Check C:\ for existing folders with prefix RC.
Next Folder Task   ✓   ⋮

PowerShell Script
PowerShell

Display name *

Check C:\ for existing folders with prefix RC.

Folder to check. *   ⓘ

C:\

Prefix of folder. *   ⓘ

RC

Control Options ⌄

Output Variables ⌄

TESTING OUR EXTENSION

TESTING OUR EXTENSION

Agent job 1 Job

Pool: Hosted VS2017 · Agent: Hosted Agent

- ✓ Prepare job · succeeded
- ✓ Initialize Job · succeeded
- ✓ Checkout · succeeded
- ✓ Check C:\ for existing folders with prefix RC. · succeeded
- ✓ PowerShell Script · succeeded
- ✓ Post-job: Checkout · succeeded
- ✓ Finalize Job · succeeded
- ✓ Report build status · succeeded

```
##[debug]Evaluating condition for step: 'Check C:\ for existing folders with prefix RC.'
##[debug]Evaluating: succeeded()
##[debug]Evaluating succeeded:
##[debug]=> True
##[debug]Result: True
##[section]Starting: Check C:\ for existing folders with prefix RC.
==============================================================================
Task        : Next Folder Task
Description  : Generate the next folder name on basis of an increment viz. RC3 if RC1, RC2 are present.
Version     : 0.1.2
Author      : Dushyant Priyadarshee
Help        :
==============================================================================
##[debug]agent.TempDirectory=D:\a\_temp
##[debug]loading inputs and endpoints
##[debug]loading ENDPOINT_AUTH_PARAMETER_SYSTEMVSSCONNECTION_ACCESSTOKEN
##[debug]loading ENDPOINT_AUTH_SCHEME_SYSTEMVSSCONNECTION
##[debug]loading ENDPOINT_AUTH_SYSTEMVSSCONNECTION
```

```
NewName is: RC1
##[debug  set NFN.NextFolderName=RC1
##[debug]Processed: ##vso[task.setvariable variable=NFN.NextFolderName;issecret=false;]RC1
##[section]Finishing: Check C:\ for existing folders with prefix RC.
```

THANK YOU

Dushyant Priyadarshee

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