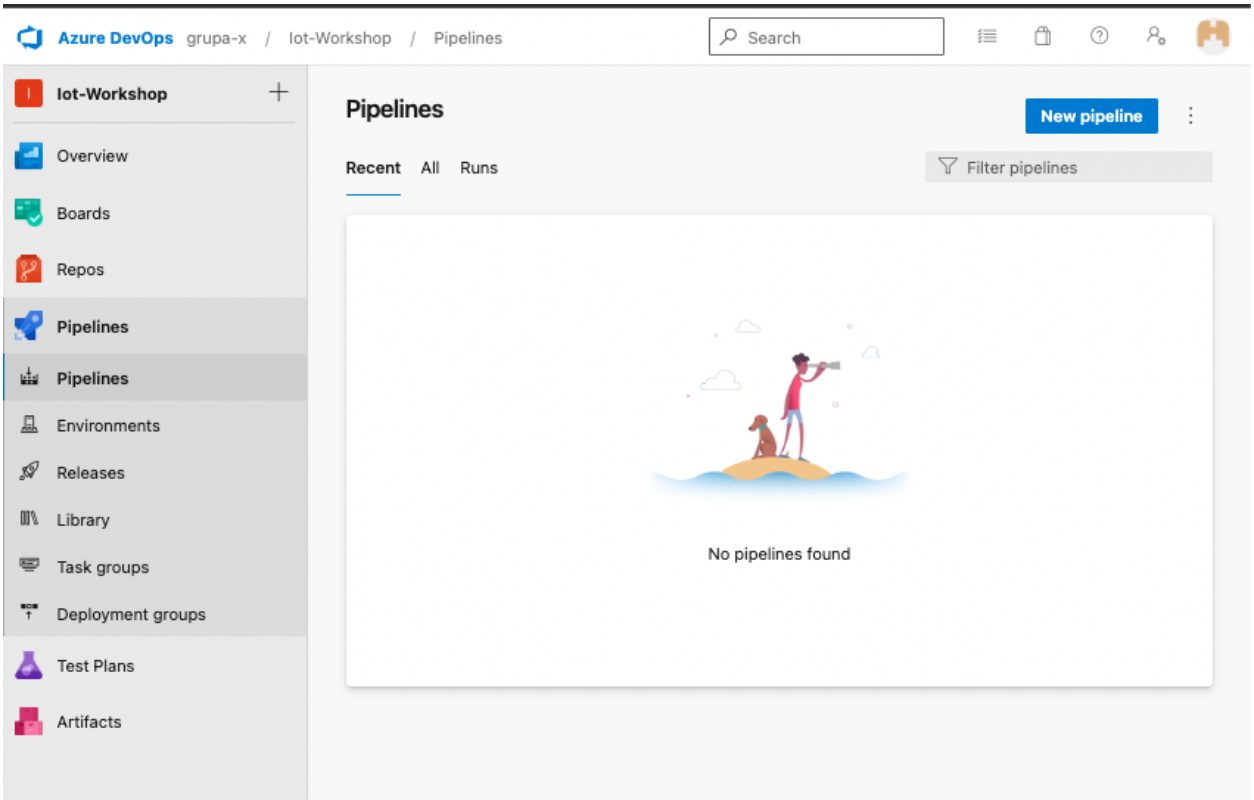
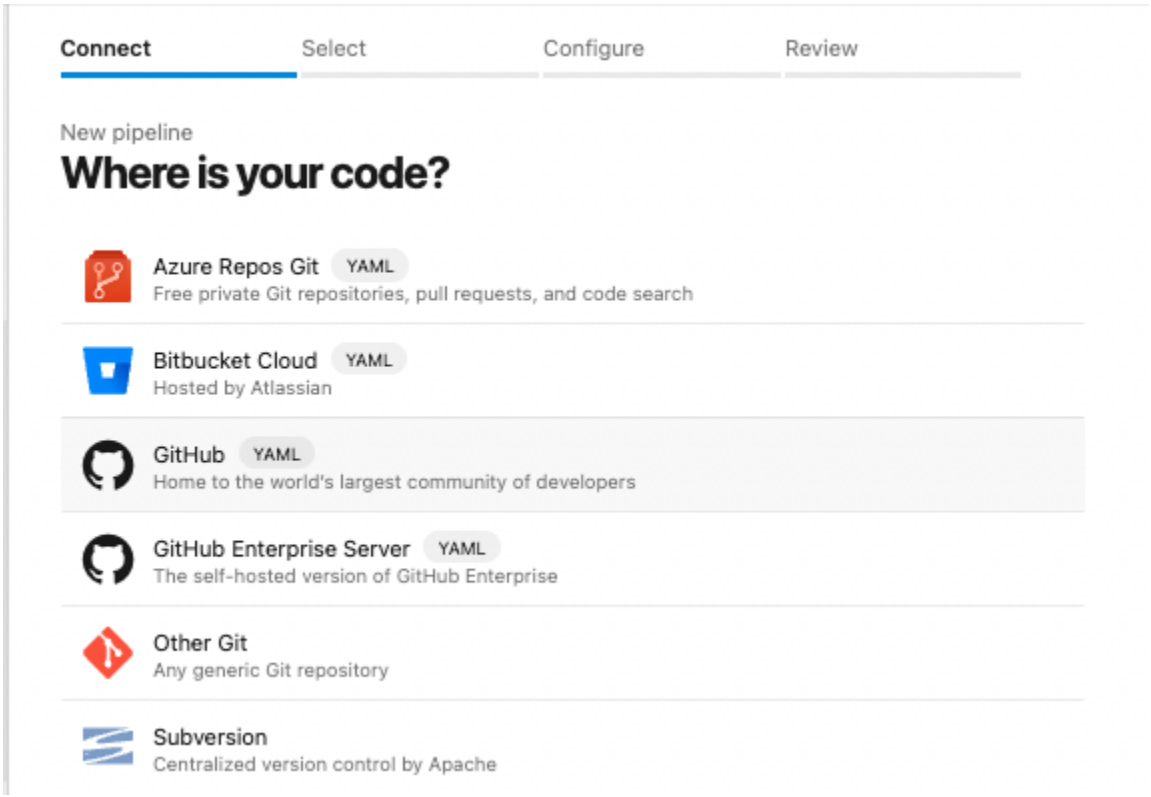
In this document we will create a basic CICD pipeline in Azure DevOps that will be triggered at each commit to the repo on GitHub - preferably the forked repo provided by Jacek should be used.

Prerequisite: Initial setup with an added agent needs to be completed to proceed with those instructions.

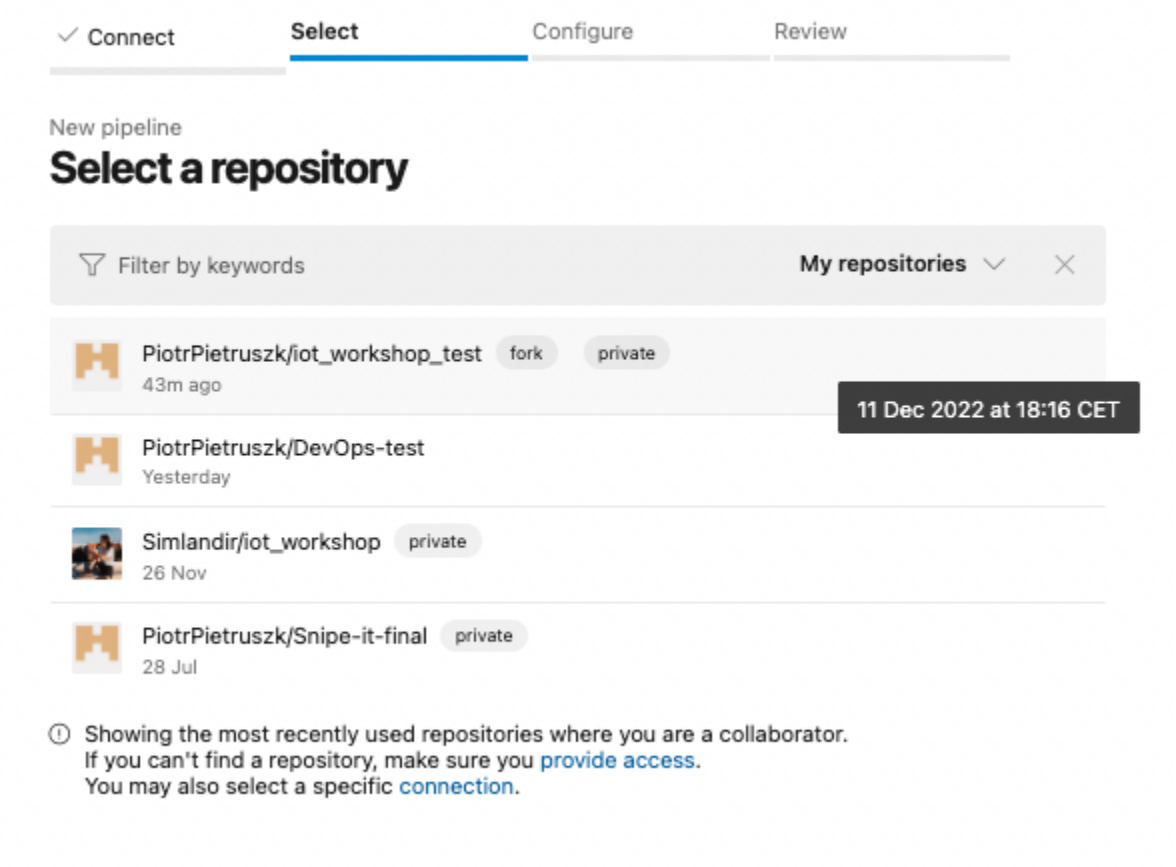
1. Go to Pipelines and click “New pipeline”



2. Choose GitHub

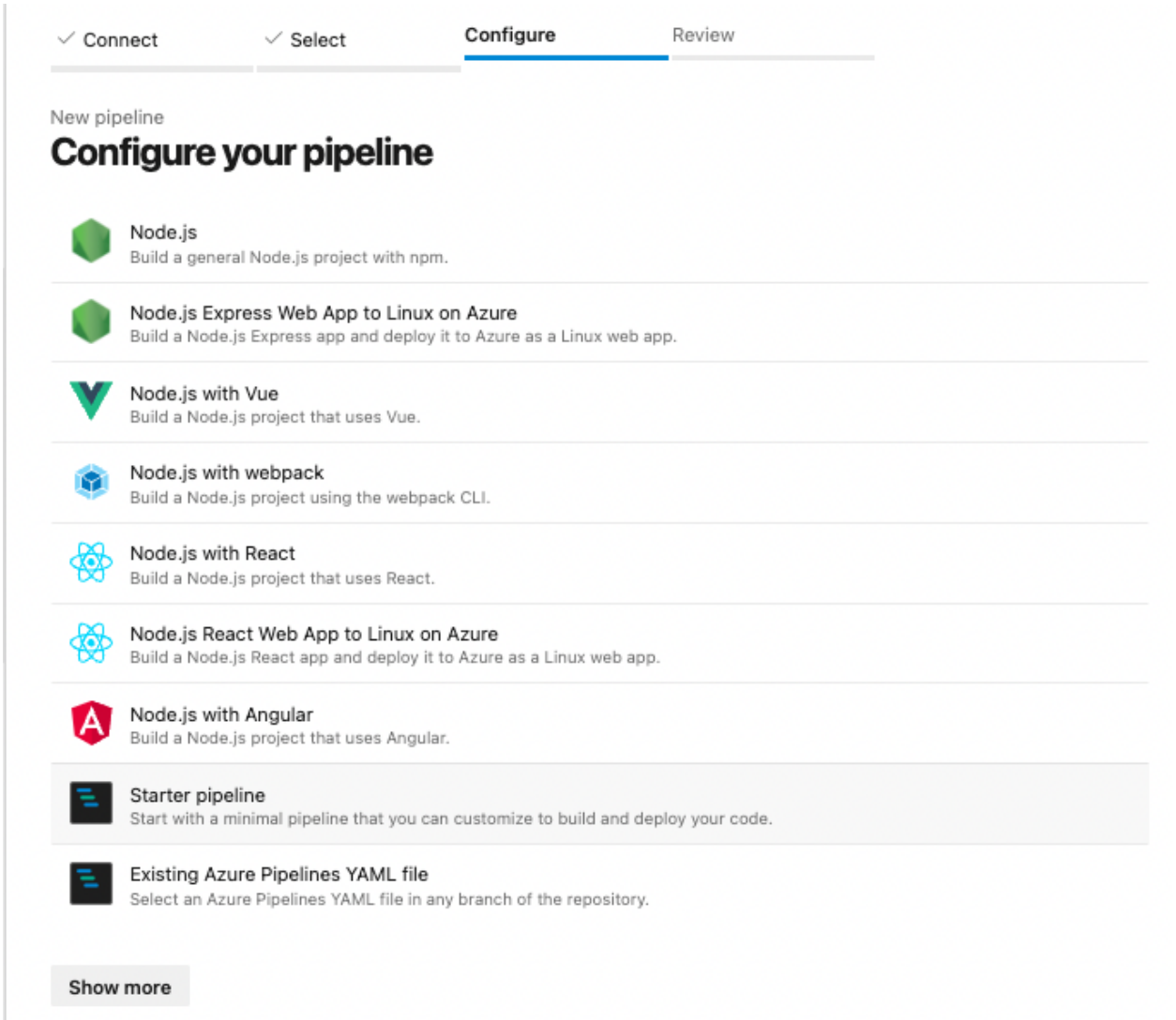


3. It will auto-populate with all the repos added to the GitHub account that was used to create this Azure DevOps Project. Choose the forked repo provided by Jacek



(at this point you might be taken to GitHub and prompted to log in again and install a webservice in your Github account to handle Azure Pipelines - do it)

4. Choose “Starter pipeline”|



5. You will be taken to a final Pipeline creation window (pipelines in Azure DevOps are kept a YAML file in the repo)

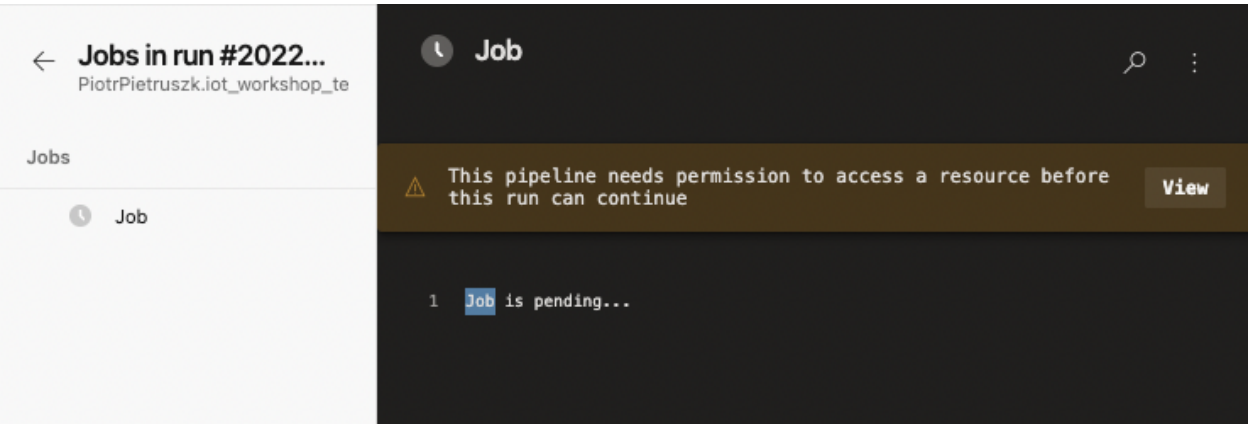
PiotrPietruszk/iot_workshop_test / **azure-pipelines.yml** *

```yaml
# Starter pipeline
# Start with a minimal pipeline that you can customize to build and deploy your code.
# Add steps that build, run tests, deploy, and more:
# https://aka.ms/yaml

trigger:
- master

pool: default

steps:
- script: echo Hello, world!
  displayName: 'Run a one-line script'

- script: |
    echo Add other tasks to build, test, and deploy your project.
    echo See https://aka.ms/yaml
  displayName: 'Run a multi-line script'

```

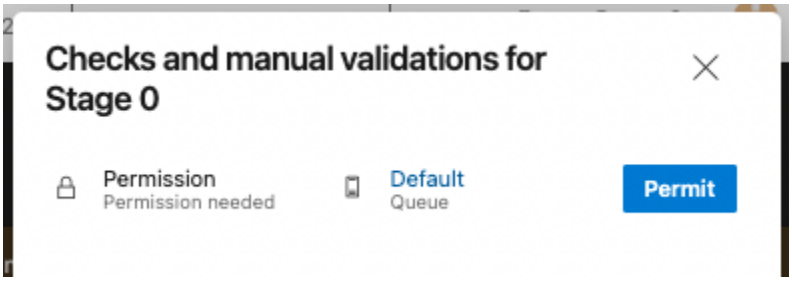
6. Change your file to look like the screenshot above (change the agent pool to *pool: default*)

7. Click “Save and run” and “Save and run” again - this will commit the pipeline YAML file into the repo in GitHub and run it on the agent you created in the initial configuration.
(From now on you can edit your pipeline either in Azure DevOps GUI, or from your GitHub repository)

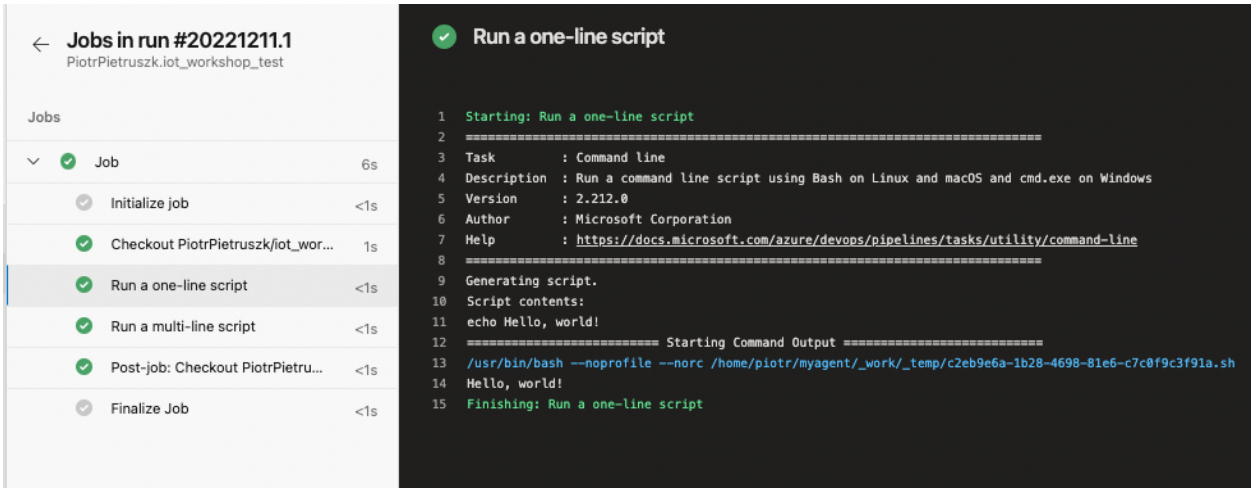
8. Go to the job that just started and click “view” on the right



9. Click “Permit” (this will allow to the pipeline to use the default agent pool)



10. The Job will run the pipeline



This time the trigger was manual, but be advised that this job will run every single time you make a commit to the master branch!

How to adjust this job to do what I want it to?

1. If you want to change the branch that this pipeline is triggered for change the {branch name} in the following line in azure-pipelines.yml:

[...]
trigger:
- master
[...]

2. There is a lot of extra functionality in Azure Pipelines, but for the most part you will stick to running bash commands using a step called - *script:*
For our purposes you can edit you azure-pipelines.yml to do everything in one step, like on the screenshot attached: (be sure to have the pipe symbols (|) after - *script:* it allow for multi-line scripts)