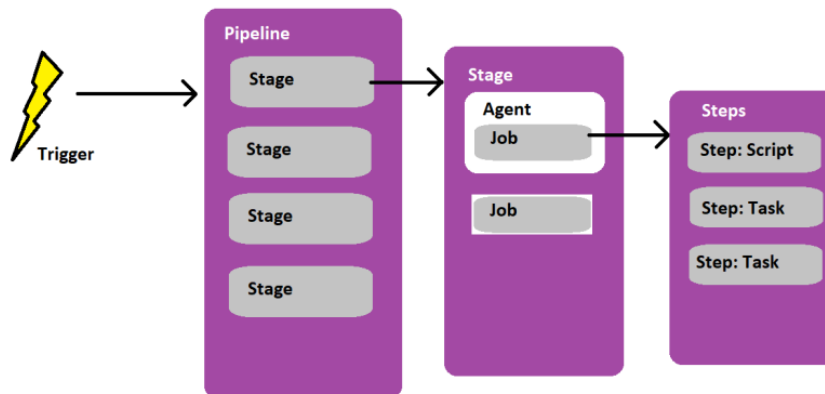**MENU** ☰

FEBRUARY 5, 2023

DevOps Classroomnotes 05/Feb/2023
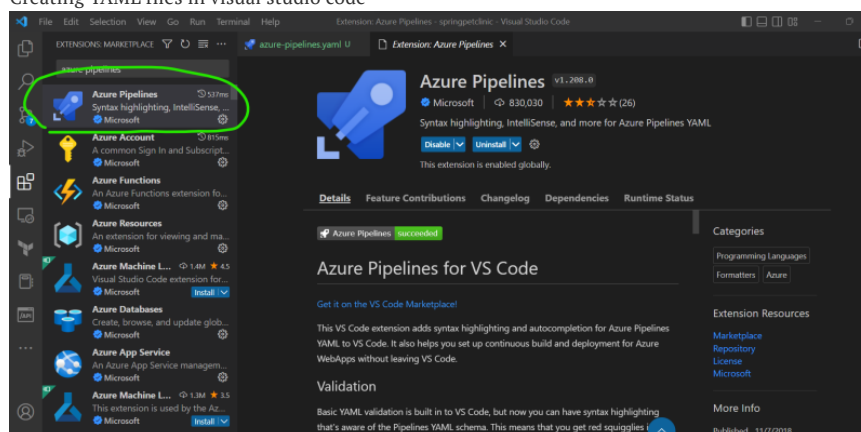
Azure Pipeline (YAML)

- Azure Pipelines Representation

- Azure Pipeline is collection of
  - Stages: Each Stage is collection of Jobs
  - Job: Collection of Steps
  - Each Step can be executed using Task or script (direct command)

- If you only one stage directly we can write jobs in pipeline
- If you only one stage and one job we can directly write steps in pipeline

Lets try to write a YAML pipeline for spring petclinic

- We need git, JDK 17 and maven so we need to figure out which agent has these softwares or create your self hosted agent with all the softwares installed and maintained by you.
- Refer Here for the official docs of Azure DevOps Microsoft Hosted agents
- Microsoft hosted agents will be of size D2S (2 vcpu and 8 GB)
- Pipeline with stages structure Refer Here
- Pipeline with job structure Refer Here
- Creating YAML files in visual studio code

- Azure DevOps has lot of predefined tasks for build and deployment Refer Here
- Lets create YAML with stages

```
---
pool:
  name: "Azure Pipelines"
  vmImage: 'ubuntu-latest'

trigger:
  - main

stages:
```

```
  - stage: BuildStage
    displayName: CI
    jobs:
      - job: mavenjob
        displayName: maven
        steps:
          - task: Maven@3
```

- Same pipeline with jobs

```
---
pool:
  name: "Azure Pipelines"
  vmImage: 'ubuntu-latest'

trigger:
  - main

jobs:
  - job: mavenjob
    displayName: maven
    steps:
      - task: Maven@3
        inputs:
          mavenPomFile: 'pom.xml'
          goals: 'package'
```

- Same pipeline with steps

```
---
pool:
  name: "Azure Pipelines"
  vmImage: 'ubuntu-latest'

trigger:
  - main

steps:
  - task: Maven@3
    inputs:
      mavenPomFile: 'pom.xml'
      goals: 'package'
      publishJUnitResults: true
      testResultsFiles: '**/surefire-reports/TEST-*.xml'
      jdkVersionOption: '1.17'
```

Lets build a java 8 project

- Manual steps

```
git clone https://github.com/wakaleo/game-of-life.git
cd game-of-life
mvn package
# gameoflife-web/target/gameoflife.war
```

Azure DevOps – EcoSystem

- Refer Here for demonstrations from azure devops
- Use this for examples on different technologies

Exercise

- Build openmrs

```
git clone https://github.com/openmrs/openmrs-core.git
cd openmrs-core
mvn package
```

- Figure out manual steps to build nopcommerce Refer Here
- dotnet build command Refer Here

```
git clone https://github.com/nopSolutions/nopCommerce.git

# dotnet-sdk 6.0
dotnet build <path to sln>
```

Free Plan – How to enable free minutes

- Lot of crypto currency miners have started using free Azure devops pipelines to mine bitcoin
- No one gets free minutes until a form is filled and approved by microsoft.

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