



FEBRUARY 19, 2023

# DevOps Classroomnotes 19/Feb/2023

## Azure Release Pipelines/Deployments

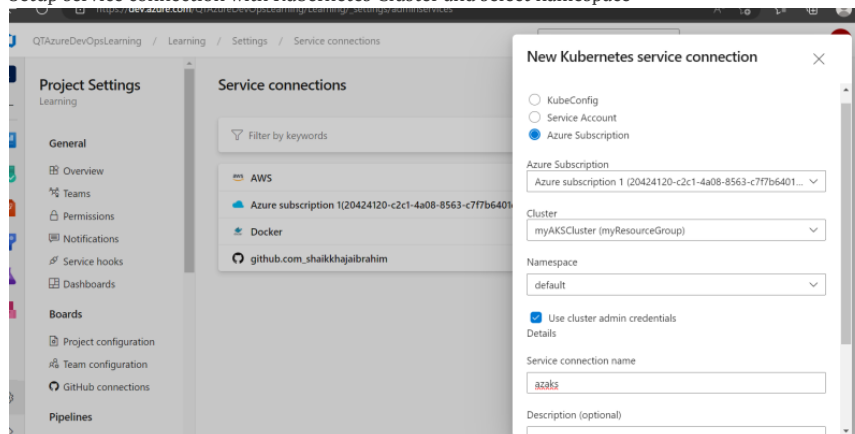
- Sample dotnet application which we used for creating releases

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

trigger:
- master

stages:
- stage: 'buildpackage'
  displayName: 'Build and Package'
  jobs:
  - job: 'buildpackage'
    displayName: 'Build and Package'
    steps:
      - task: DotNetCoreCLI@2
```

- We will be taking a sample application and performing the following steps
  - build docker image
  - scan docker image
  - push docker image to docker registry
  - deploy the container as deployment into k8s cluster
- The Application we will be using
  - Git hub [Refer Here](#)
  - [Refer Here](#)
- Create Kubernetes Cluster [Refer Here](#)
- Setup service connection with Kubernetes Cluster and select namespace



- [Refer Here](#) for the basic pipeline to build docker image
- [Refer Here](#) for sample aks azure devops deployment pipeline
- [Refer Here](#) for changes in pipeline added to deploy to k8s cluster
- The yaml for deployment

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

trigger:
- developer

stages:
- stage: 'buildnpush'
  displayName: 'Build docker image and push'
  jobs:
  - job: 'buildnpush'
    displayName: 'Build docker image and push to registry'
```

- [Refer Here](#) for the yml used to build pipeline

## Azure DevOps Pipeline – Secrets

- Use Vault Services, [Refer Here](#) for usage of Azure Key Vault
- [Refer Here](#) for Setting secret variables
- Azure DevOps Whitesource integration [Refer Here](#)

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