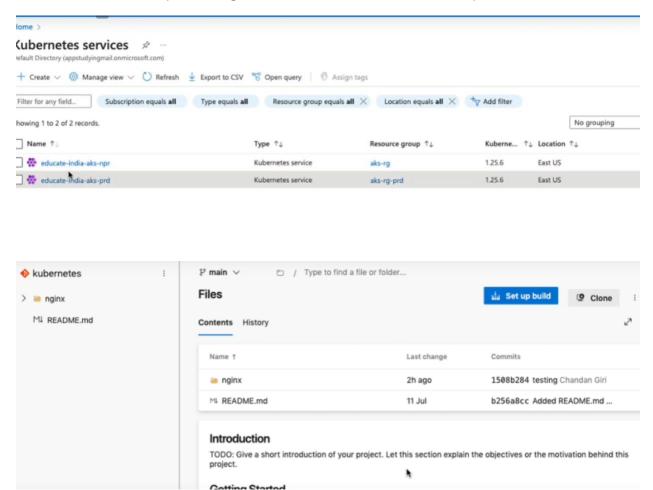
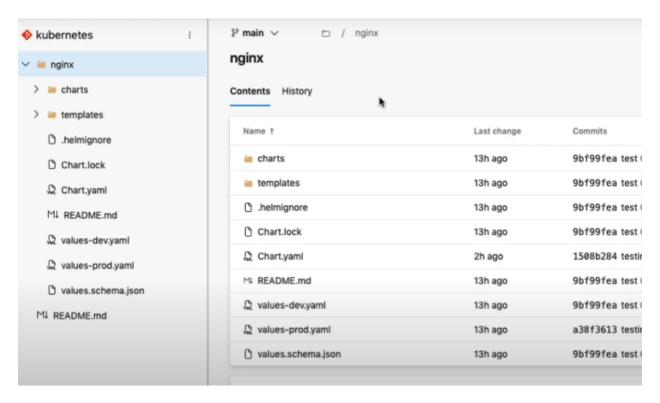
Helm Deployment using Azure DevOps

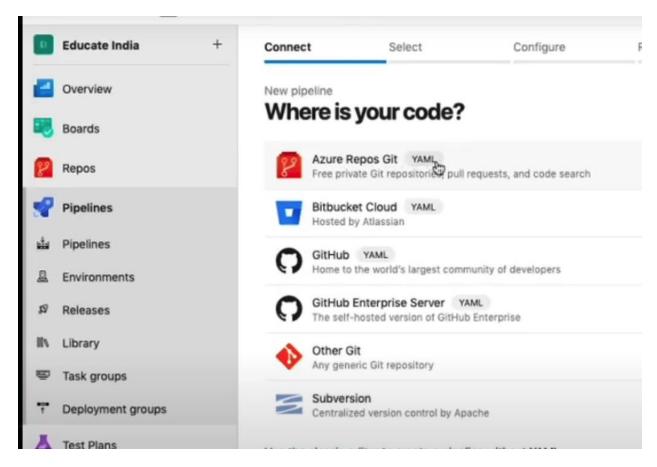
We'll create a Helm pipeline with Azure DevOps using yaml file and will add Helm related tasks there so our target is to create a multi-stage pipeline that can use a single Azure chart and can deploy to multiple env. We'll target to deploy dev and prod env.

Create 2 clusters and pushed nginx chart Helm chart to Azure devops





Go to pipelines and go to Azure repos git:



Select Kubernetes repo and starter pipeline

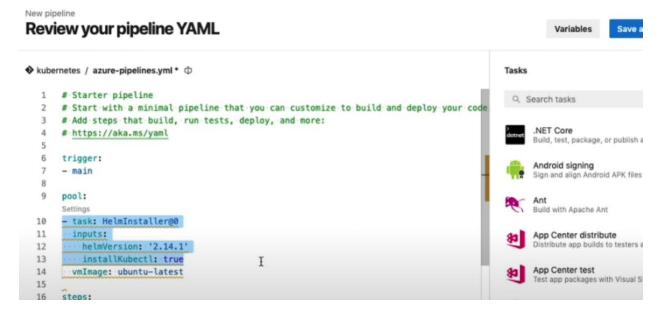


New pipeline

Review your pipeline YAML

```
♦ kubernetes / azure-pipelines.yml * Φ
  1
      # Starter pipeline
  2 # Start with a minimal pipeline that you can customize to build and deploy your code.
  3
      # Add steps that build, run tests, deploy, and more:
      # https://aka.ms/yaml
  4
  5
  6
      trigger:
  7
      - main
  8
  9
      pool:
 10
      vmImage: ubuntu-latest
 11
                                        I
 12 steps:
 13 - script: echo Hello, world!
 14
      displayName: 'Run a one-line script'
 15
 16
     - script: |
```

You can add tasks like helm installer:



Copy the code and paste it in the pipeline:

```
# 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:

- main

pool:

vmImage: ubuntu-latest

stages:

- stage: Dev

jobs:

- deployment: Helm Deployment Dev

environment: dev

variables:

env: dev

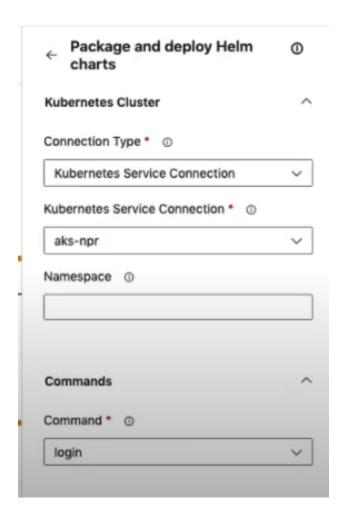
strategy:
```

New pipeline

Review your pipeline YAML

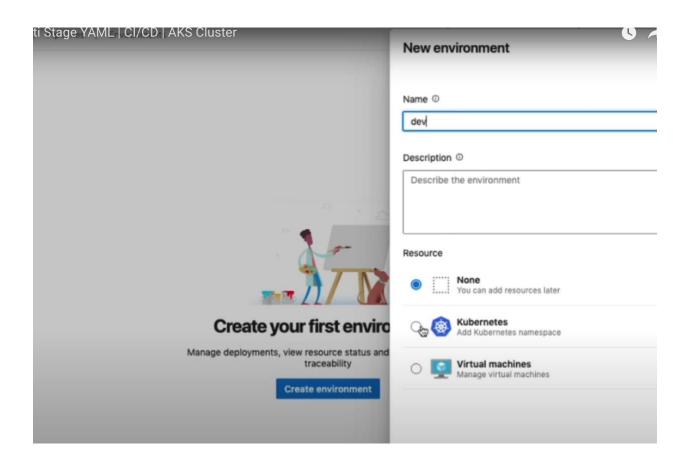
♦ kubernetes / azure-pipelines.yml * Φ

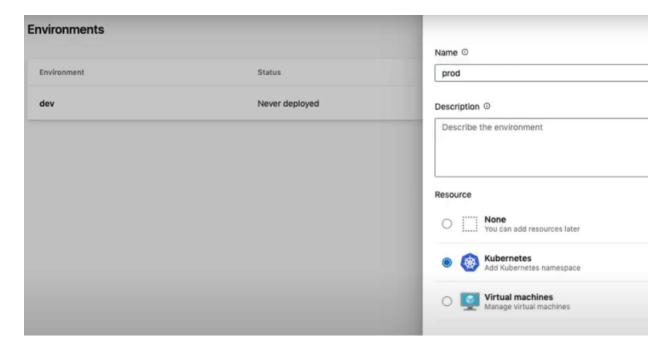
```
7
    trigger:
8
    - main
10
    pool:
11
   vmImage: ubuntu-latest
12
13
    stages:
14
    - stage: Dev
15
    ---jobs:
16
    17
    environment: dev
18
         variables:
19
         env: dev
20
         strategy:
21
         -run0nce:
```



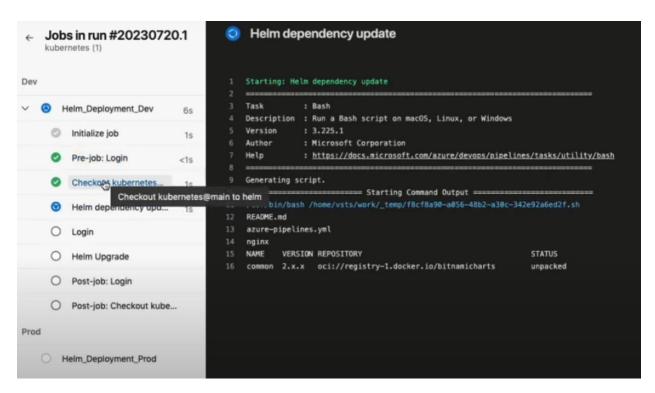
```
- task: HelmDeploy@0
inputs: I
connectionType: 'Kubernetes Service Connection'
kubernetesServiceConnection: 'aks-npr'
command: 'login'
helm upgrade —install test nginx -f $(Agent.BuildDisease)
iobs:
```

Create env dev and prod:

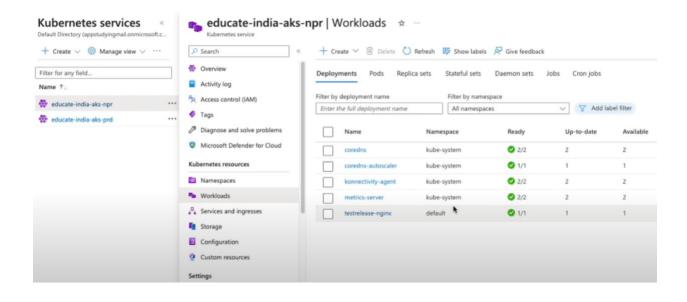


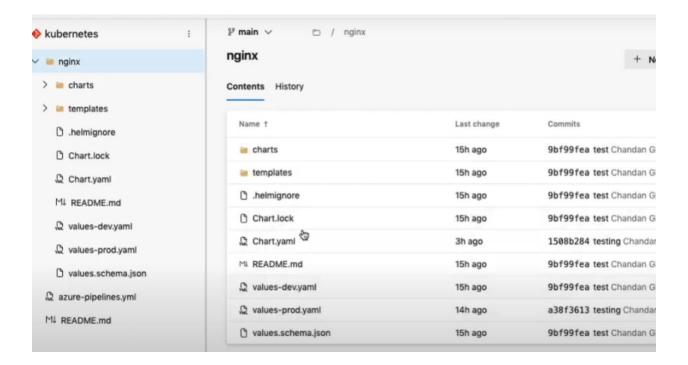


```
helm upgrade —install test nginx —f $(Agent
····jobs:
     - deployment: Helm_Deployment_Prod
      environment: prod
     variables:
     env: prod
      strategy:
        runOnce:
         deploy:
           steps:
             - checkout: self
               clean: true ^
               submodules: true | recursive
               path: helm
               displayName: Checkout
             Settings
```



Tesrelease is here:





So that's how we can manage the Helm chart within Azure repos and create a simple yaml that will fetch the chart and it will create the release and later manage that particular env by creating different values for that different stages