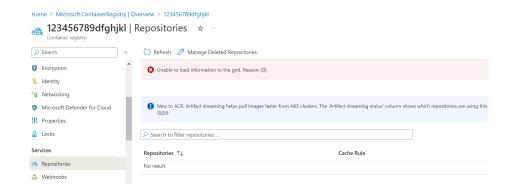
Chat-bot Monolithic deployment to kubernetes :-

1. Container create :-



When u open to see the docker images u will see this error Unable to load information to the grid. Reason: {0}.



To resolve this u do this and it will get resloved

Go to IAM —> give him the owner permission

Go to Access key—> give Admin user 🗸

2. Service connection:-

For that container create a service connection

Go to Azure devops portal and do like this

Project settings -> Service connection -> New Service connection ->

Select Docker Registry ---> Azure Container Registry ---> save.

3. Build Docker Images:-

Now with the code build a docker image and push into your docker container registry u can refer to the yaml file u will understand.

4. Kubernetes services :-

Now select 1st option Create Kubernetes cluster and fill the necessary thing it is asking and create

5. Service connection:-

Now that Kubernetes cluster create a service connection

Go to Azure devops portal and do like this

Project settings —> Service connection —> New Service connection —>

Select Kubernetes --> fill necessary things and create and save.

Azure-pipeline.yaml:-

```
trigger:
- none

resources:
- repo: self

variables:
    containerRegistry: 'sample container 8899.azure.io'
    dockerRegistryServiceConnection: 'af96df78-8263-4dba-bb43-5ad37206afce'
    baseImageName: 'chatbot-base'
    appImageName: 'chatbot'
    aksClusterName: 'samplecluster89'
    aksSubscriptionEndpoint: 'Azure for Students'
    tag: 'latest'

stages:
- stage: BuildAndPushBaseImage
    displayName: 'Build and Push Base Image'
    jobs:
- job: BuildBaseImage
    displayName: 'Build Base Image'
    pool:
```

```
command: 'buildAndPush'
 stage: BuildAndPushAppImage
registry'
       command: 'buildAndPush'
       repository: '$(appImageName)'
 - BuildAndPushBaseImage
 - BuildAndPushAppImage
```

```
environment: 'myrepo.kube-node-lease' # Ensure this matches the
environment name set up in Azure DevOps
    strategy:
    runOnce:
    deploy:
        steps:
        - checkout: self # This ensures that the repository contents are
available
    - task: KubernetesManifest@0
        displayName: 'Deploy to Kubernetes cluster'
        inputs:
            action: 'deploy'
            kubernetesServiceConnection: 'k%sserviceconnection'
            namespace: 'kube-node-lease'
            manifests: |
            $(Build.SourcesDirectory)/manifests/deployment.yml
            $(Build.SourcesDirectory)/service.yml
            containers: 'samplecontainer8899.azurecr.io/chatbot:latest'
            imagePullSecrets: 'imagepullsecret'
            rolloutStatusTimeout: '300'
```

Important points:-

- 1. The Project overview is it is a java application basically it is build on Tomcat server inside that Tomcat Server the chatbot application is build
- 2. Here we need to build 2 docker images 1st it create a base. Docker image and after that by using 1st image it will create 2nd image
- 3. By using 2nd image only we will deploy this image into kubernetes cluster
- 4. We need to deploy only the 2nd image that will create the chatbot application.