#### Assignment -4

## **Platform Engineering**

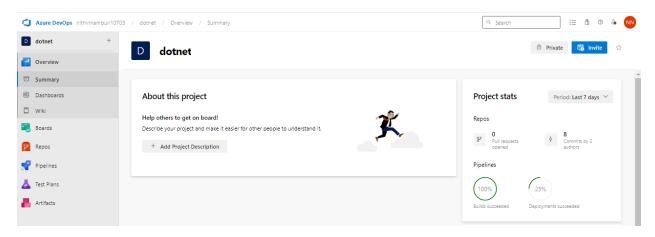
N.V.Nithin Kumar

1433832

1) Deploy .net app in azure dev ops from azure demo generator.

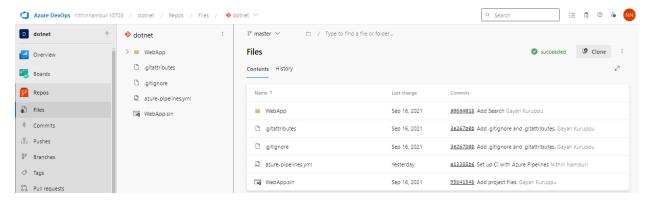
Ans)

Step-1: First we have to create a project.

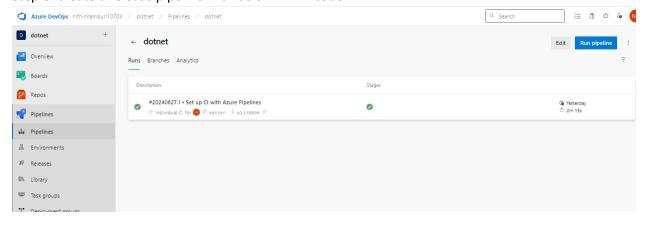


Step-2:Go to the repo and import a repository of the website.

https://github.com/nithinnamburi2003/asp-net-core-simple-web-app



Step-3: create a release pipeline with below YAML code.



Step-4:Add the YAML file of the dotnet app service.

| trigger | : |
|---------|---|
|---------|---|

- main

# pool:

vmImage: 'windows-latest'

#### variables:

solution: '\*\*/\*.sln'

buildPlatform: 'Any CPU'

buildConfiguration: 'Release'

## steps:

- task: NuGetToolInstaller@1

- task: NuGetCommand@2

inputs:

restoreSolution: '\$(solution)'

- task: VSBuild@1

inputs:

solution: '\$(solution)'

msbuildArgs: '/p:DeployOnBuild=true /p:WebPublishMethod=Package /p:PackageAsSingleFile=true /p:SkipInvalidConfigurations=true /p:PackageLocation="\$(build.artifactStagingDirectory)"

platform: '\$(buildPlatform)'

configuration: '\$(buildConfiguration)'

- task: PublishBuildArtifacts@1

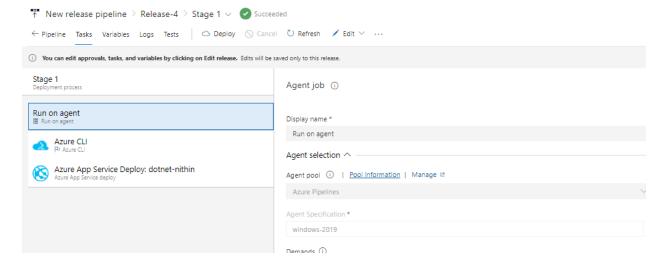
inputs:

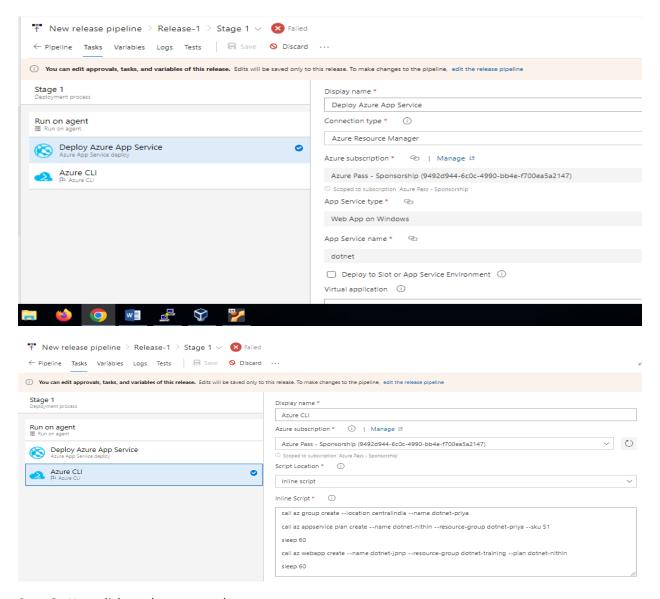
PathtoPublish: '\$(build.artifactStagingDirectory)'

ArtifactName: 'drop'

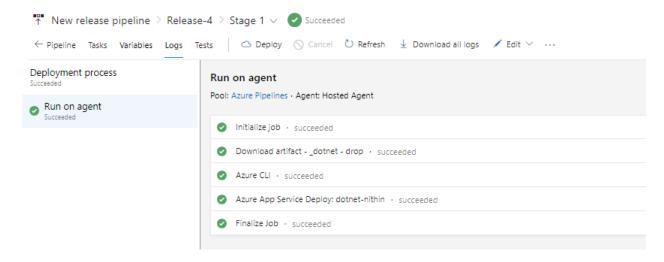
publishLocation: 'Container'

Step-5: Now go to the Release pipeline and create a new one and add stage and add run on agent for Azure CLI and azure app deploy service.

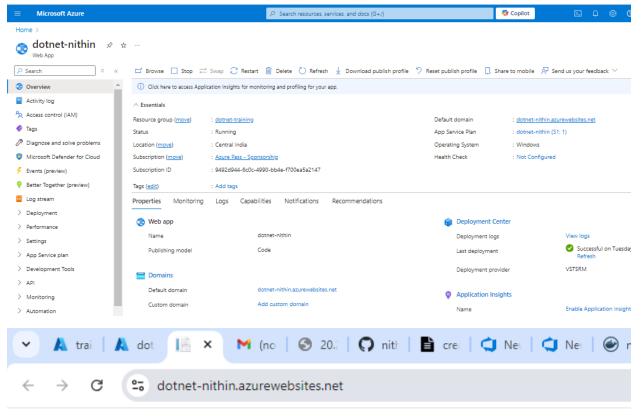




Step-6: Now click on the create release.



Step-7: Go to the webapp created in the azure and click on the browse.



## Movie App \_

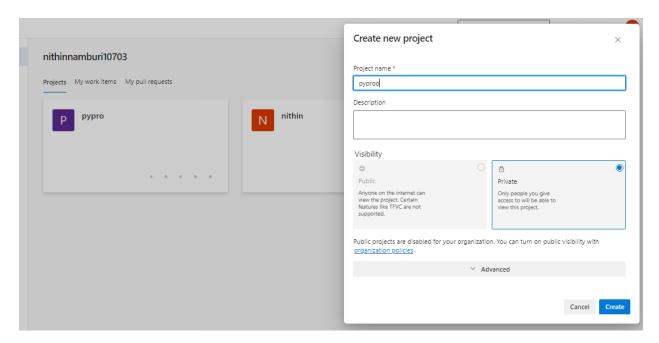
- Home
- Privacy

# Welcome

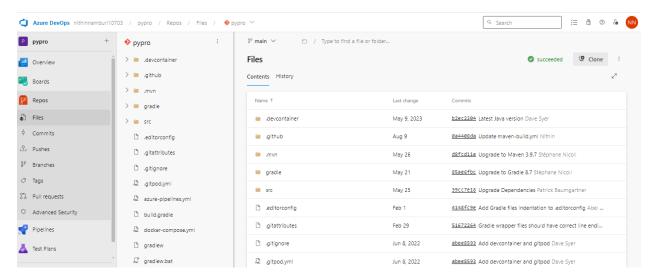
Learn about building Web apps with ASP.NET Core.

© 2021 - Movie App - Privacy

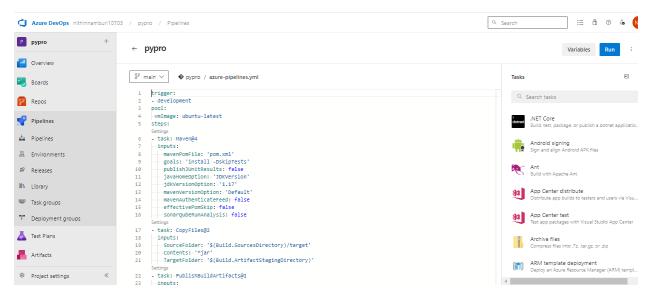




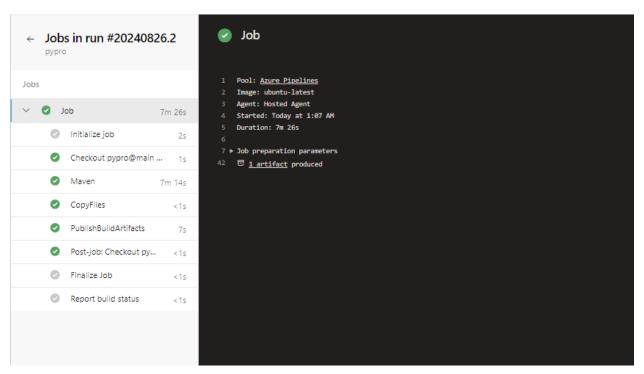
Step-2: Import the github repository.



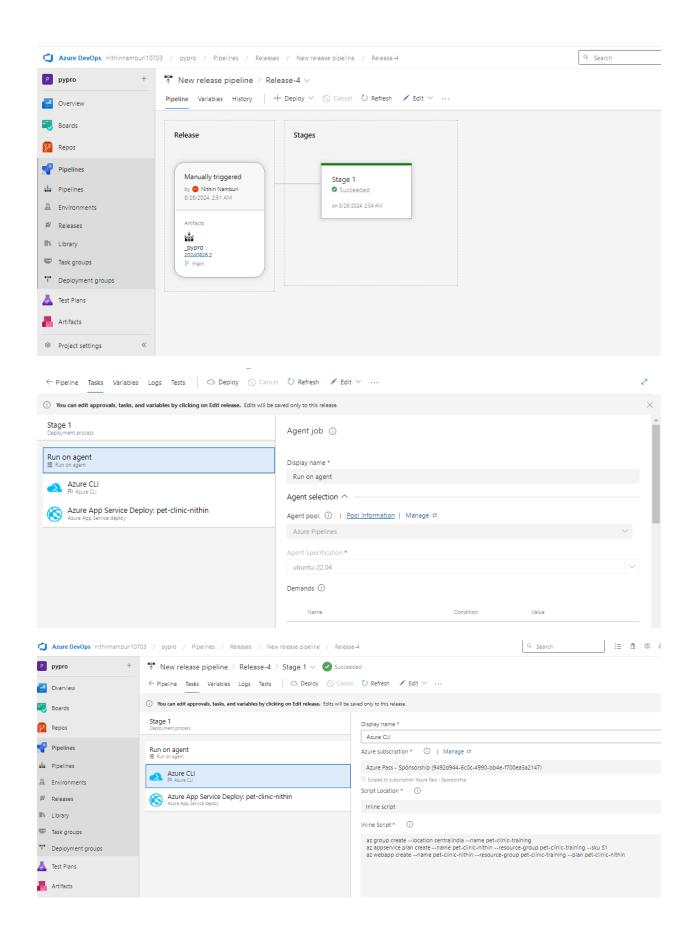
Step -3:Create a build pipeline with the Spring pet clininc Yml file.

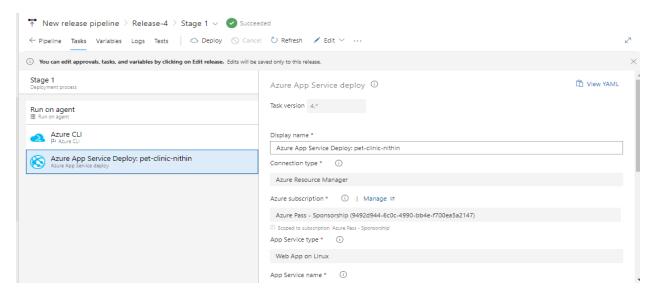


Step-4: Now click on the Save and run.

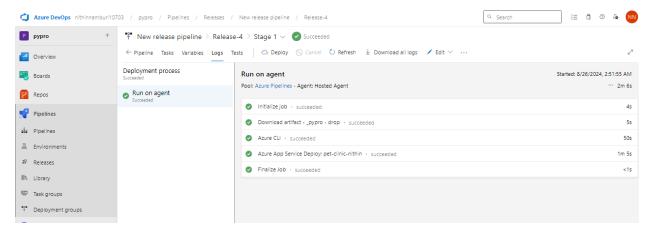


Step-5:Now create the release pipeline and set run on agent(linux), azure app deploy services and azure CLI.

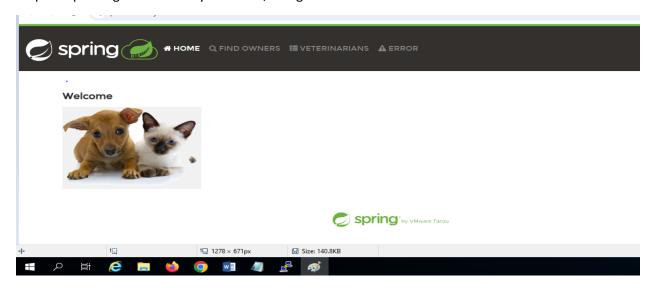




Step-6:: Now click on the save and create release.



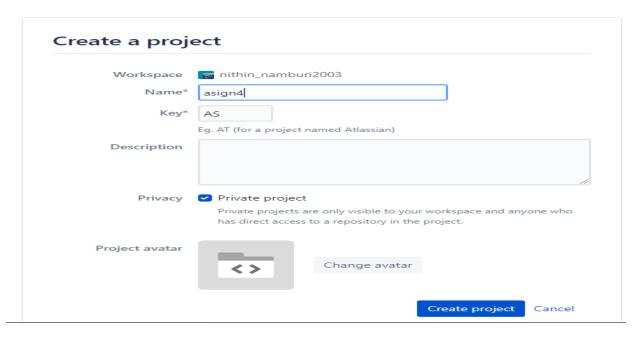
Step-7: Pipeline got successfully released ,now go to the VM and click browse.



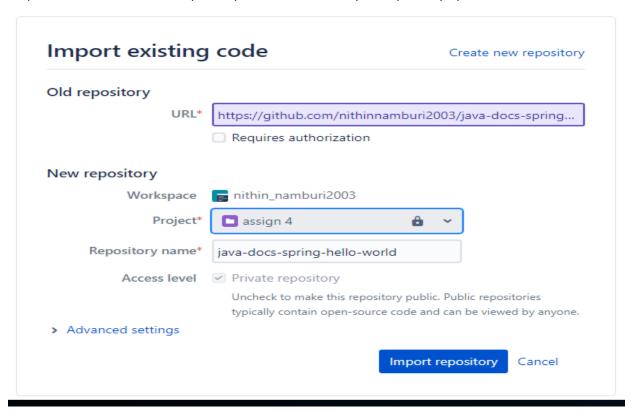
#### 3)Bitucket task

Ans)

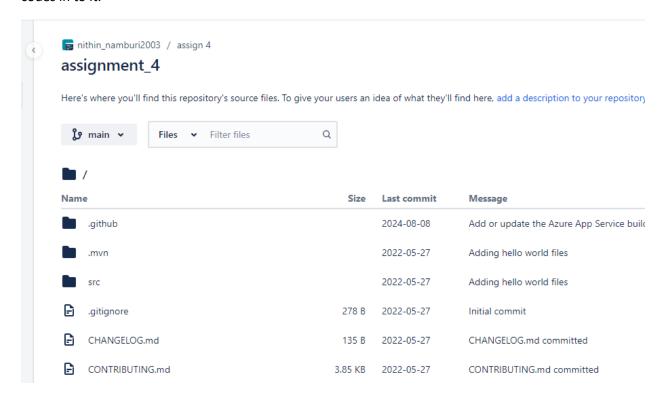
Step-1: Create a project in the bitbucket.



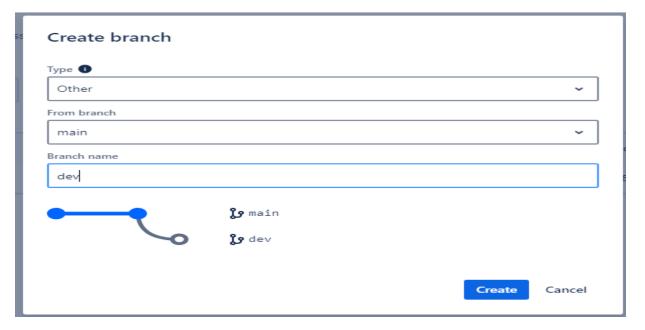
Step-2: Now click on the add repository and click on the import repository option.



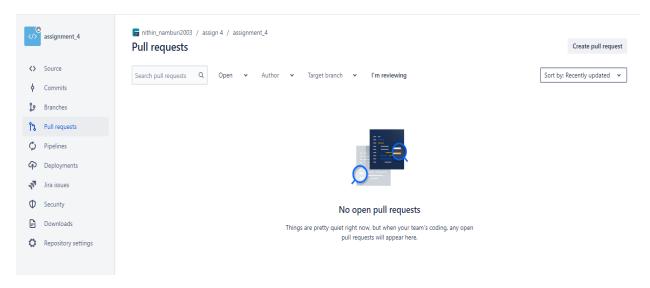
Step-3: Now we already push the existing repository in to the bitbucket so we already pushed some codes in to it.



Step-4: now we have to create a branch. For that we have click on the branches option available in the repository and add a new branch.

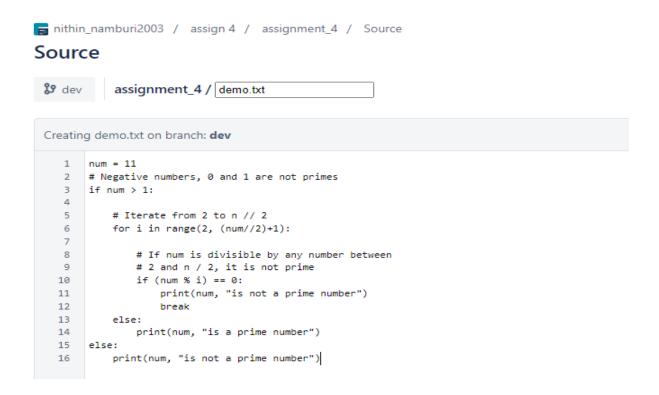


Step-5:Now we have to create a pull request.

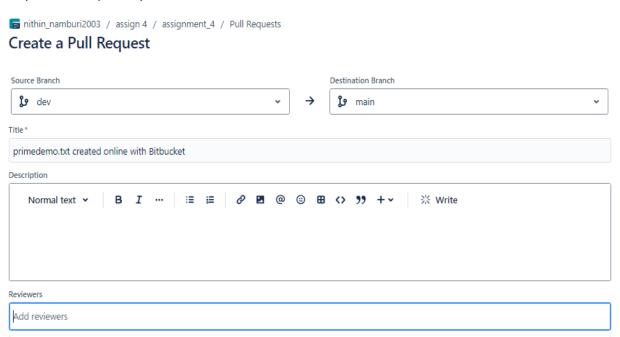


Step-6: we have to create a file in the dev branch so that there is going to be a difference between two branches.

For the file creation we have to go to source page of repo and change branch to dev and click on the new file.



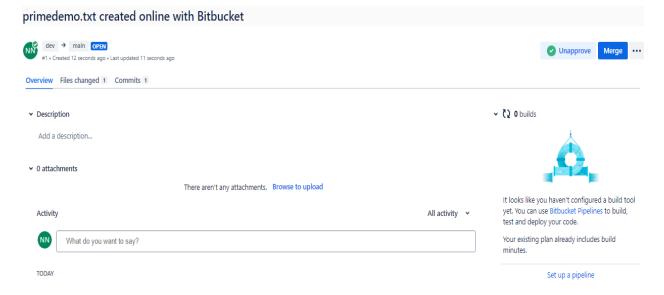
Step-7: Set the pull request.



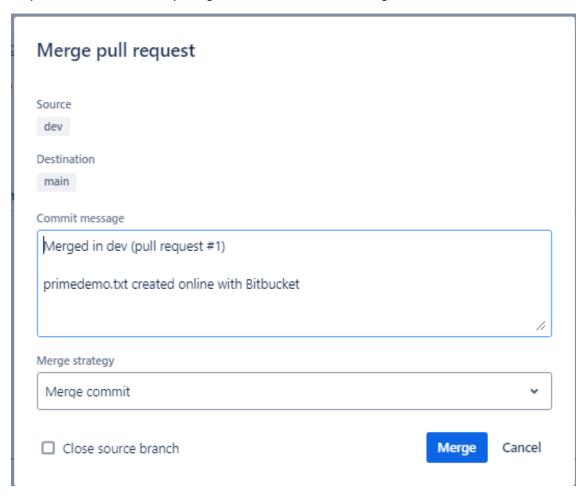
No options

Create pull request

Step-8: Now click on the approve option and click merge to see if there are any conflicts.

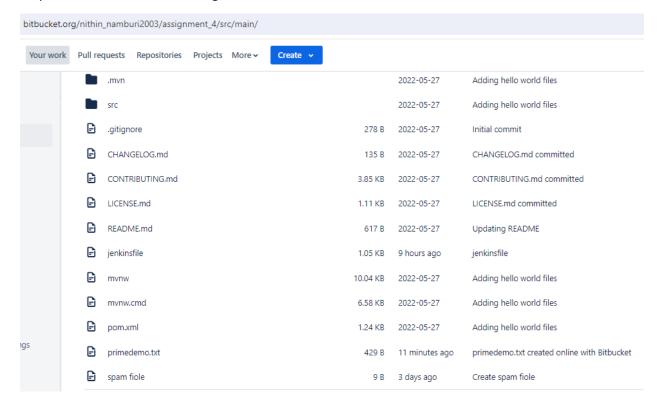


Step-9: we haven't seen any merge coflicts so click on the merge.





Step-10: check whether the merged file is available on the main branch or not.

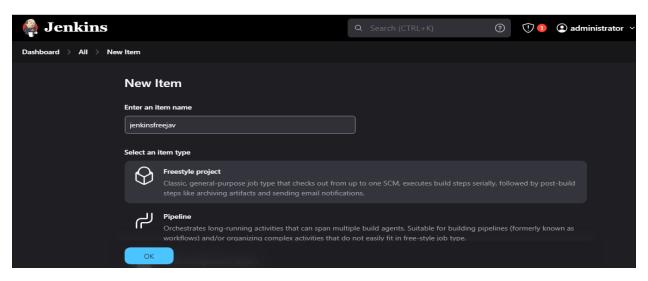


Merge was successfully created.

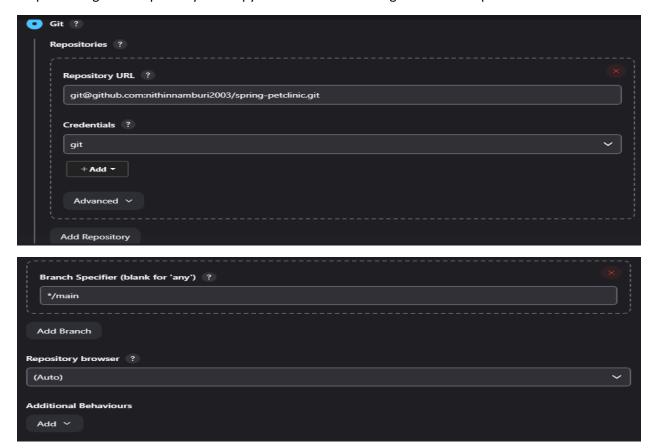
4) Create jenkins freestyle pipeline - spring pet clinic jar creation.

Ans)

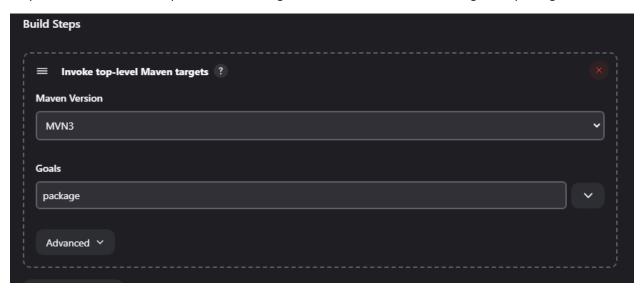
Step-1: Firstly create a new item using the freestyle setting.



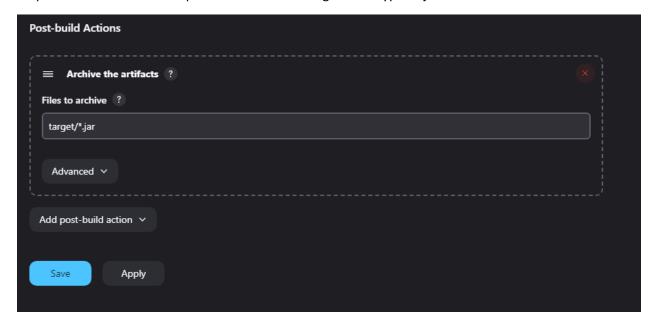
Step-2:Goto git hub repository and copy the SSH URL and change the branch specifier to main.



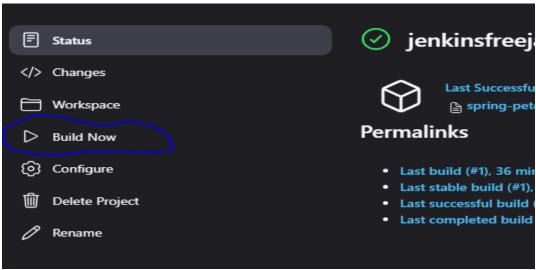
Step-3:Select the Invoke top level Maven Targets and select MVN3 and write goal as package.

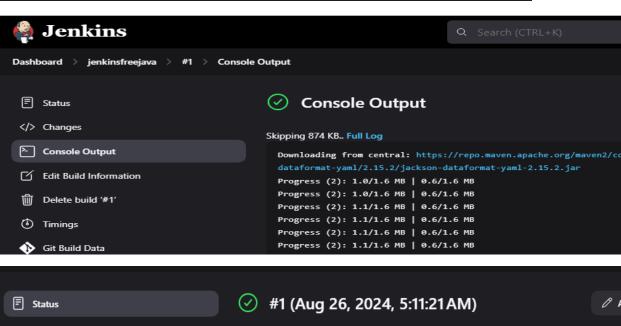


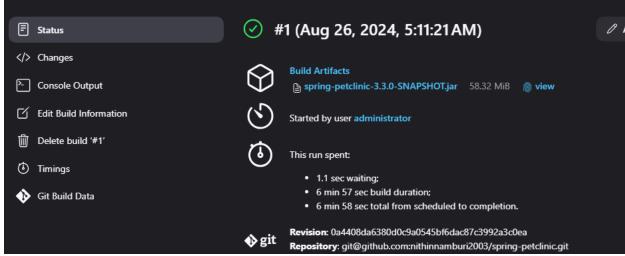
Step-4: We have to create a post build action stating the file type as jar and click on save.



Step-5:Click on the Build Now.





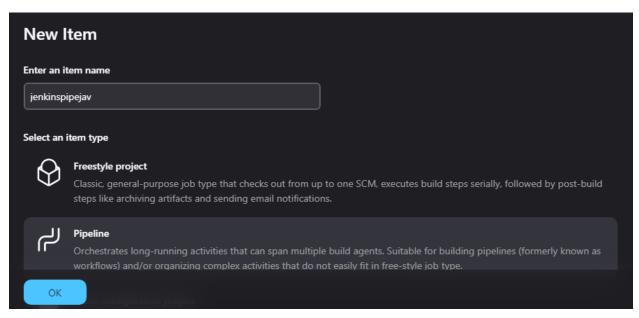


Jenkins freestyle pipeline was successfully got created.

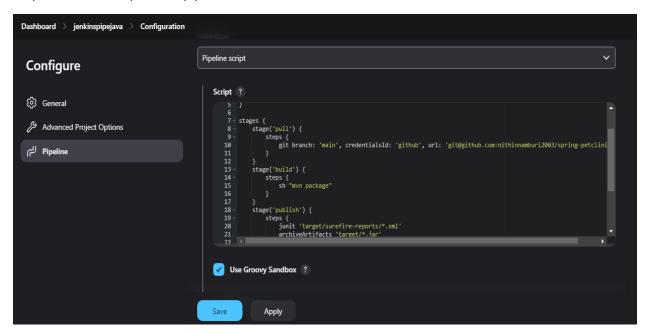
5) Create a pipeline in jenkins-spring pet clinic jar creation.

Ans)

Step-1: create a new item using the pipeline setting.



Step-2: Add the script in the pipeline that should be executed.



Step-3:Goto console and check for the status.

