Build, test, and deploy .NET MVC 5

Azure DevOps Services | Azure DevOps Server 2022 - Azure DevOps Server 2019

Use a pipeline to automatically build and test your .NET mvc projects.

- Set up your build environment with Microsoft-hosted or self-hosted agents.
- Use the publish code coverage task to publish code coverage results.
- Package and deliver your code with the .NET mvc task and the publish build artifacts task.
- Deploy your AWS Windows' server 2019 .

Create your first pipeline

Create a .NET project
If you don't have a .NET project to work with, create a new one, and upload your code to your GitHub repository or Azure Repos. Start by installing the .NET 5.0

Create a new .NET

From the same terminal session, run the application locally using the dotnet run command from your project directory.

Upload your code
Upload your code to new webapp GitHub or Azure Repos:

- Create a new Git repo in Azure Repos.
- Create a new GitHub repository.

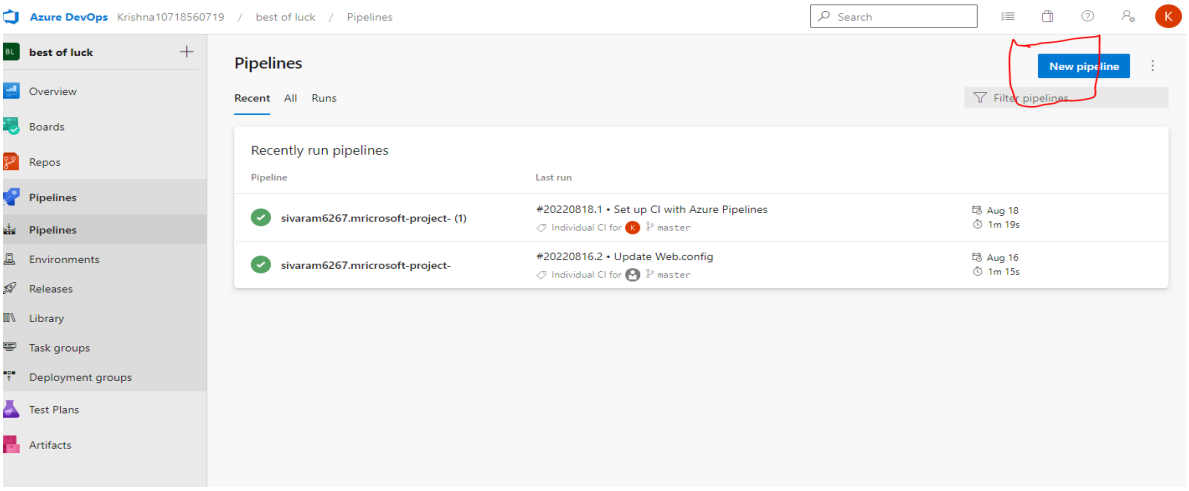
Sign in to Azure Pipelines
Sign-in to Azure Pipelines. After you sign in, your browser goes to https://dev.azure.com/my-organization-name and displays your Azure DevOps dashboard.

Within your selected organization, create a *project*. If you don't have any projects in your organization, you see a **Create a project to get started** screen. Otherwise, select the **New Project** button in the upper-right corner of the dashboard.

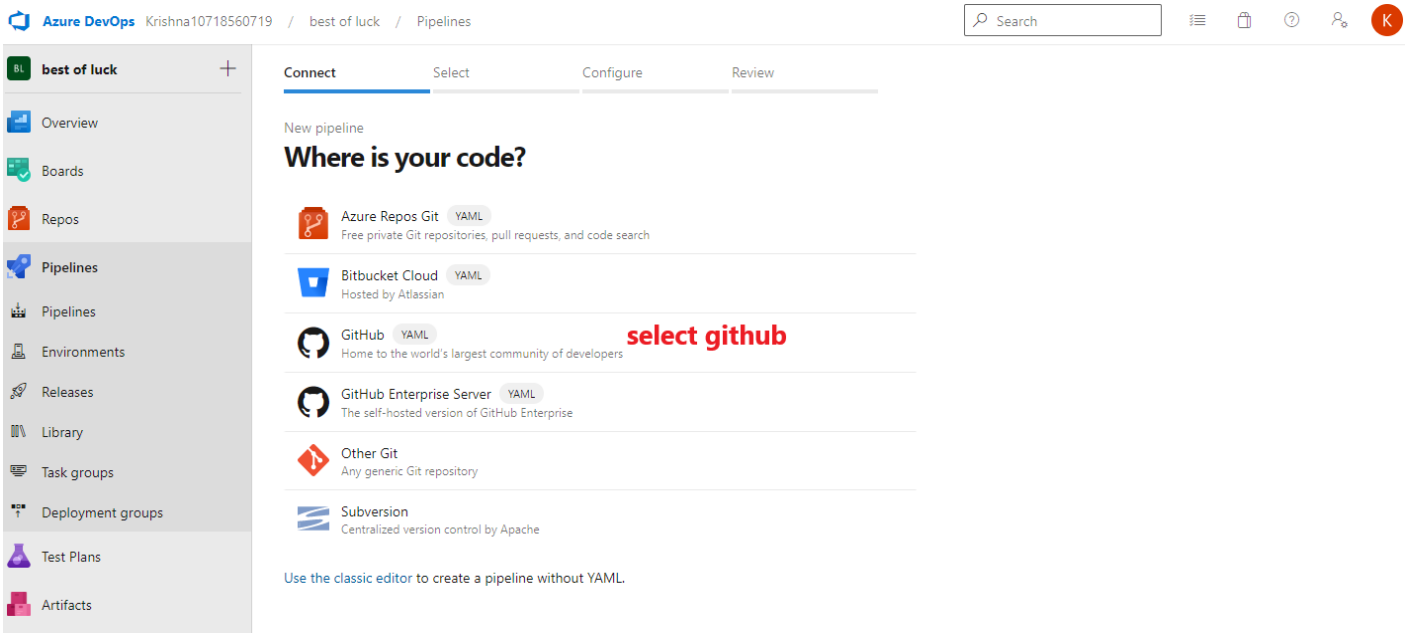
Create the pipeline

1. Sign-in to your Azure DevOps organization and go to your project.

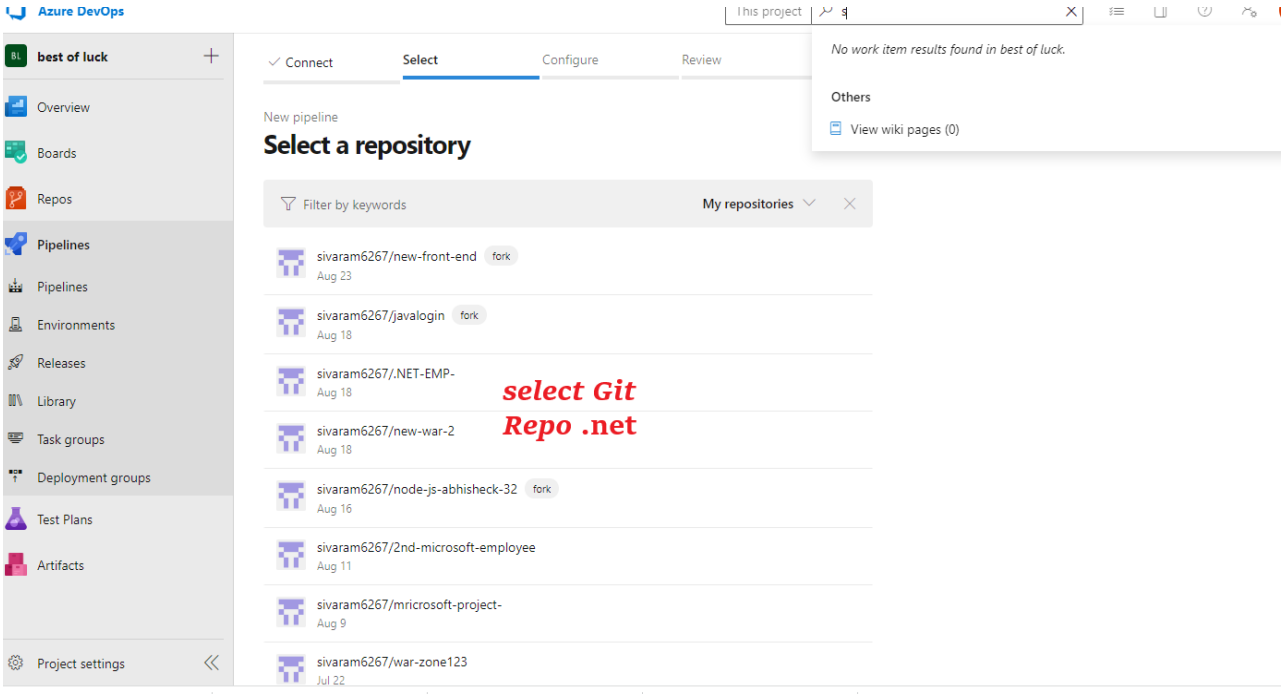
2. Go to **Pipelines**, and then select **New pipeline**.



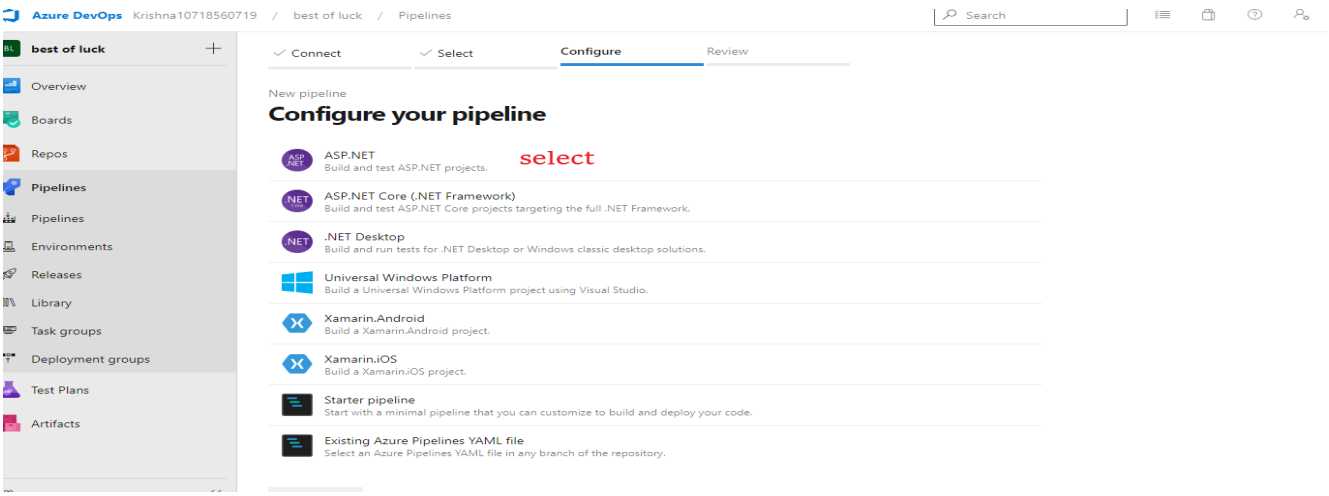
3. Do the steps of the wizard by first selecting **GitHub** as the location of your source code.



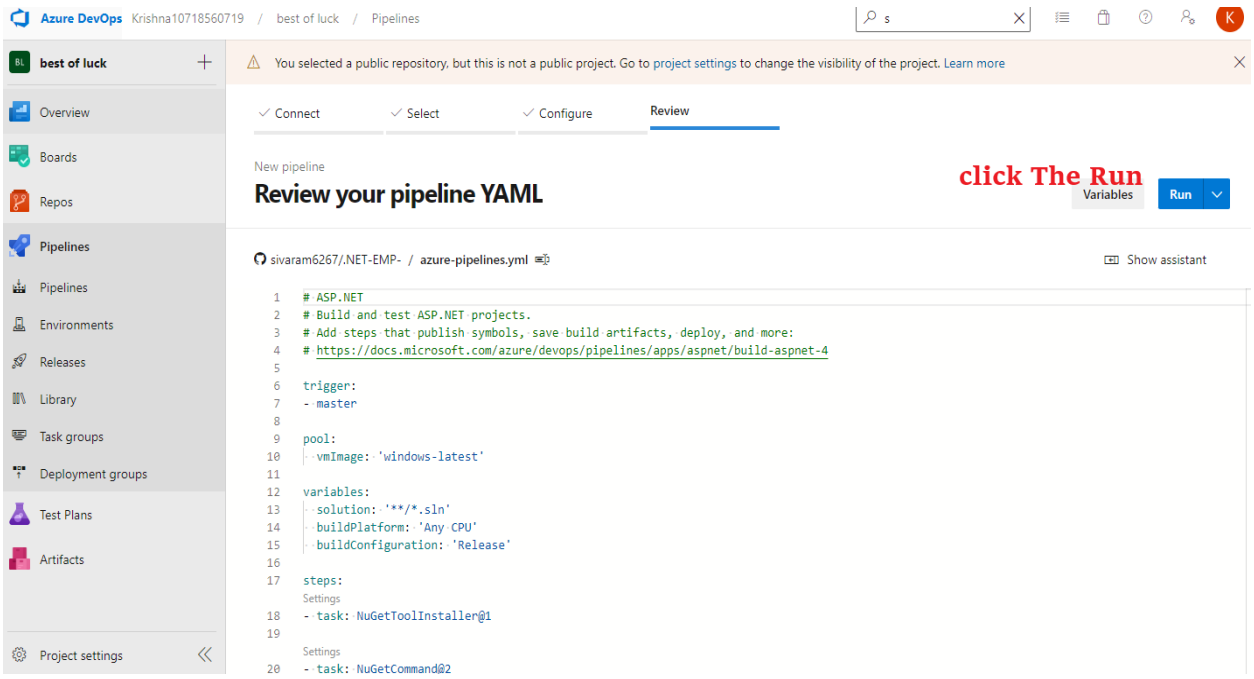
4. You might be redirected to GitHub to sign in. If so, enter your GitHub credentials.
5. When you see the list of repositories, select your repository.



6. You might be redirected to GitHub to install the Azure Pipelines app. If so, select **Approve & install**.
7. When the **Configure** tab appears, select **ASP.NET**



8. Examine your new pipeline to see what the YAML does. When you're ready, select **Save and run**.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Project settings
You selected a public repository, but this is not a public project. Go to project settings to change the visibility of the project. Learn more
Connect
Select
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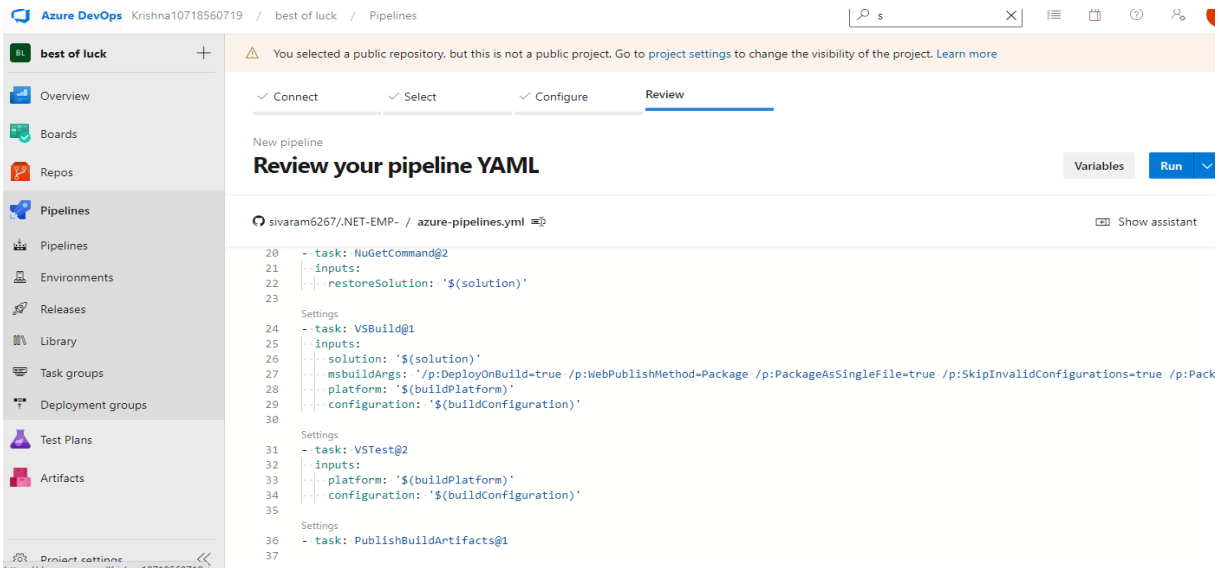
Review
New pipeline
Review your pipeline YAML
click The Run
Variables
Run
sivaram6267/.NET-EMP- / azure-pipelines.yml
Show assistant
ASP.NET
Build and test ASP.NET projects.
Add steps that publish symbols, save build artifacts, deploy, and more:
https://docs.microsoft.com/azure/devops/pipelines/apps/aspnet/build-aspnet-4
trigger:
- master
pool:
vmImage: 'windows-latest'
variables:
solution: '**/*.sln'
buildPlatform: 'Any CPU'
buildConfiguration: 'Release'
steps:
Settings
- task: NuGetToolInstaller@1
Settings
- task: NuGetCommand@2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sivaram6267/.NET-EMP- / azure-pipelines.yml
Show assistant
- task: NuGetCommand@2
inputs:
restoreSolution: '$(solution)'
Settings
- task: VSBuild@1
inputs:
solution: '$(solution)'
msbuildArgs: '/p:DeployOnBuild=true /p:WebPublishMethod=Package /p:PackageAsSingleFile=true /p:SkipInvalidConfigurations=true /p:Pack
platform: '$(buildPlatform)'
configuration: '$(buildConfiguration)'
Settings
- task: VSTest@2
inputs:
platform: '$(buildPlatform)'
configuration: '$(buildConfiguration)'
Settings
- task: PublishBuildArtifacts@1

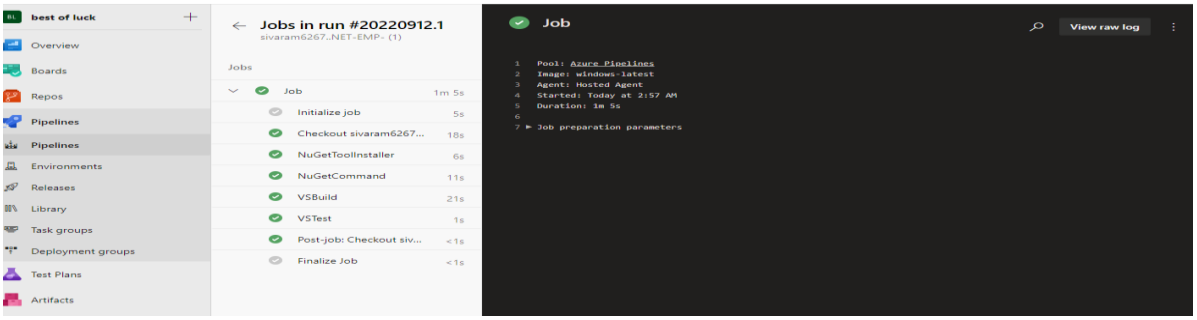
9.


Connect
Select
Configure
Review
New pipeline
Review your pipeline YAML
Save and run
azure-pipelines.yml

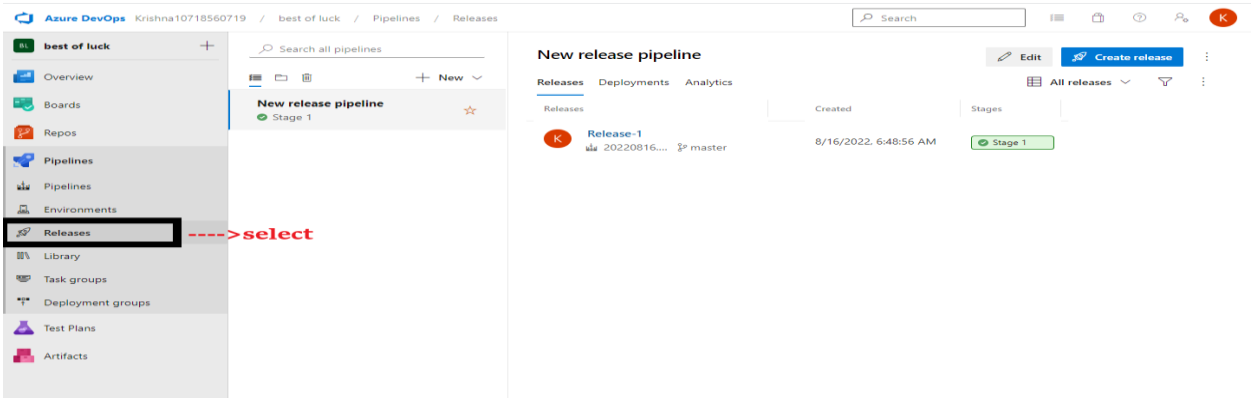
10. Commit a new *azure-pipelines.yml* file to your repository. After you're happy with the message, select **Save and run** again.

11. If you want to watch your pipeline in action, select the build job.

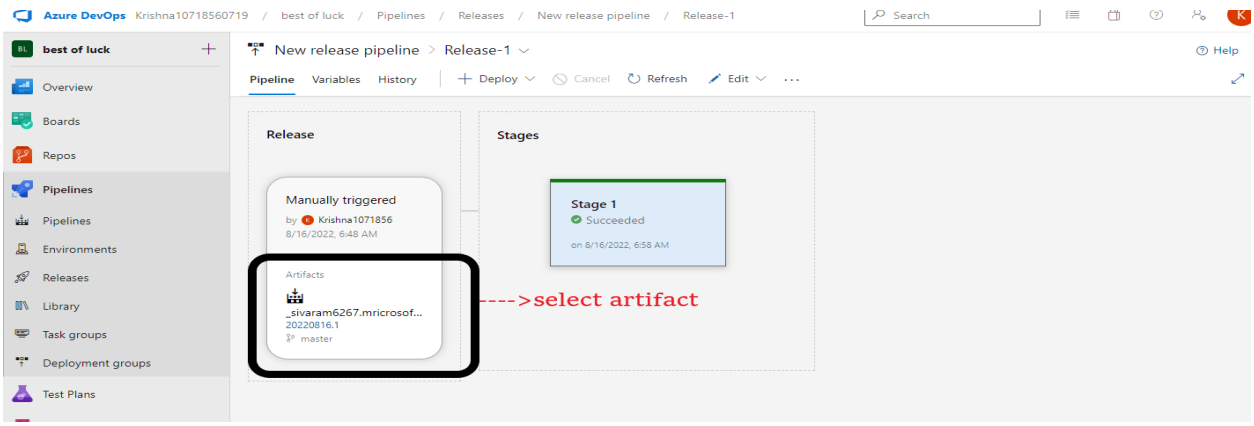
12. Because your code appeared to be a good match for the ASP.NET 5.0 template, we automatically created the pipeline for you, generate artifice.



13. After the completed build select Release pipeline and, in the Release, pipeline select create new release.



14. Select artifact latest

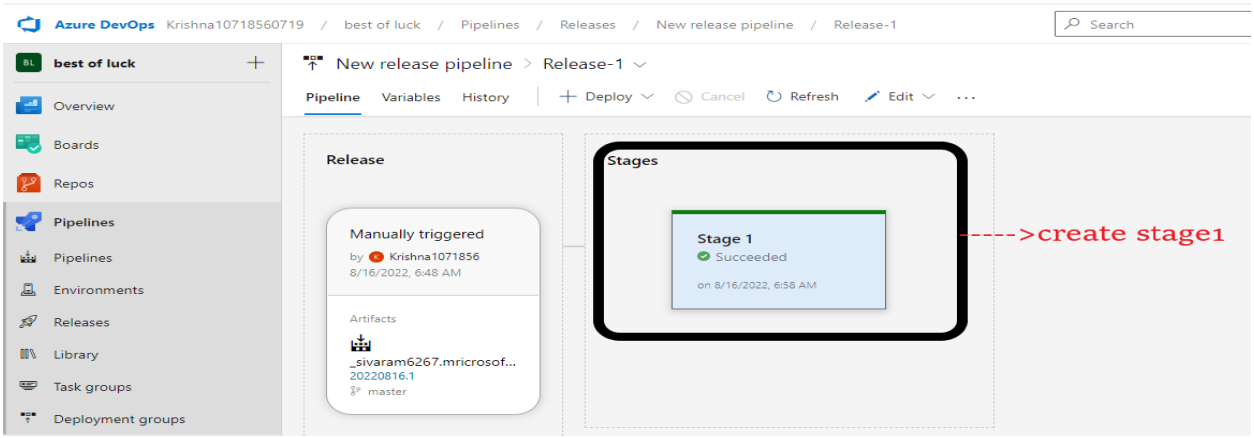


15. In the stage select IIS website and SQL database deployment

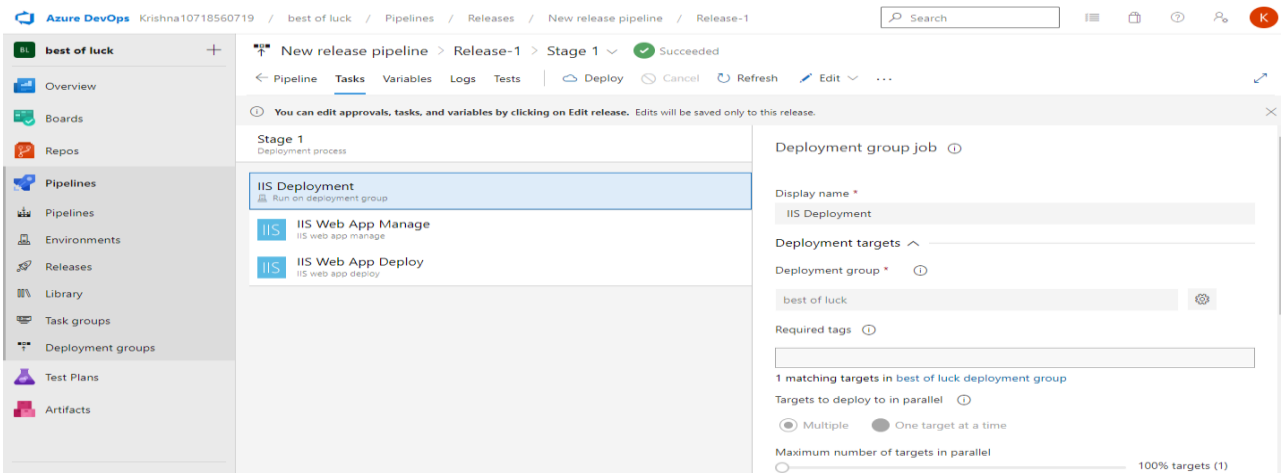
Deployment Group: Deploy ASP.NET or ASP.NET Core web applications to an IIS Website and SQL database on physical or virtual machines (VM).

Apply

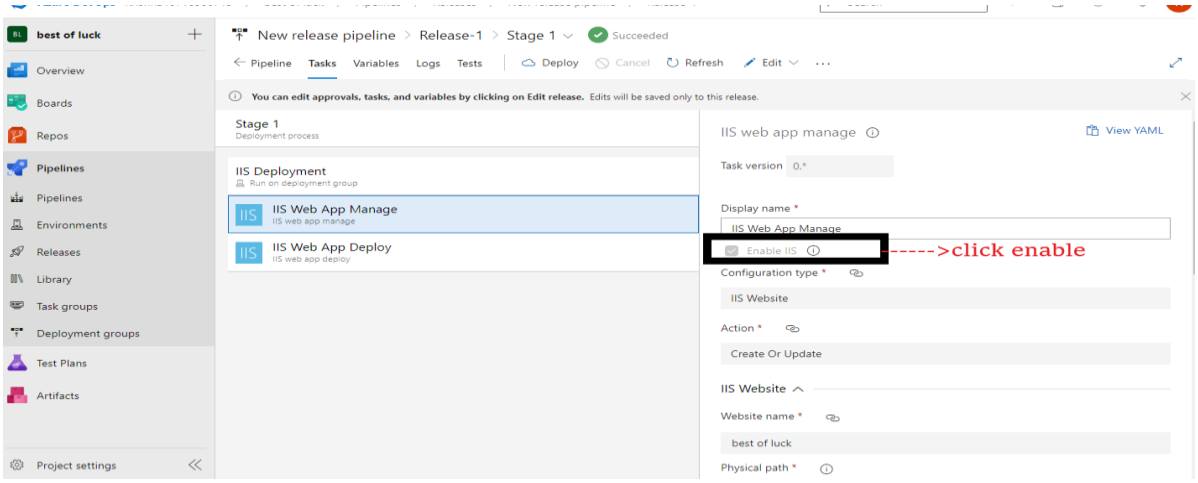
Apply IIS website and SQL database deployment template



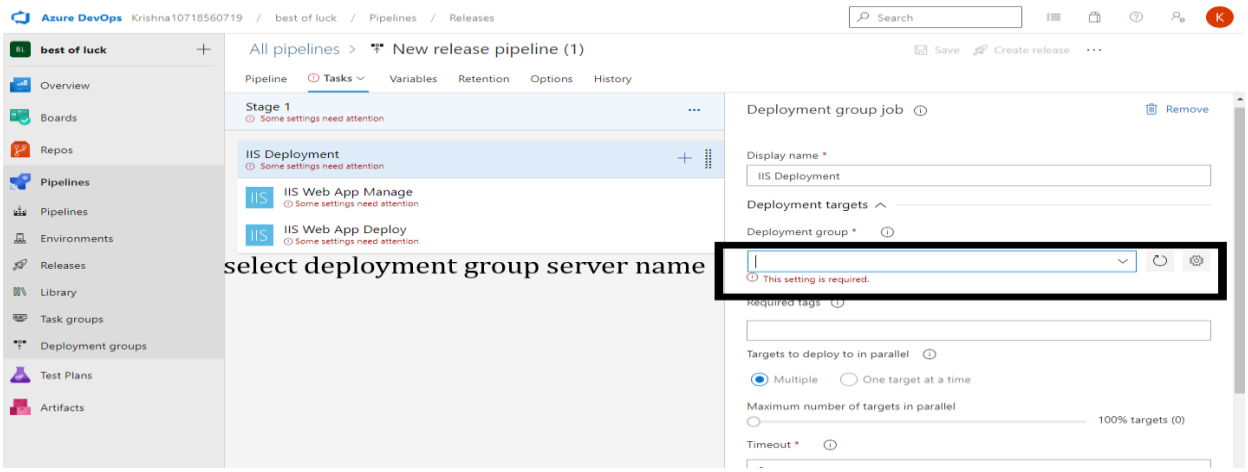
16. Inside stage one we have stage1, IIs Deployment, IIS Web App manager, IIs web App Deploy, in the Deployment group select the server's name and add port number



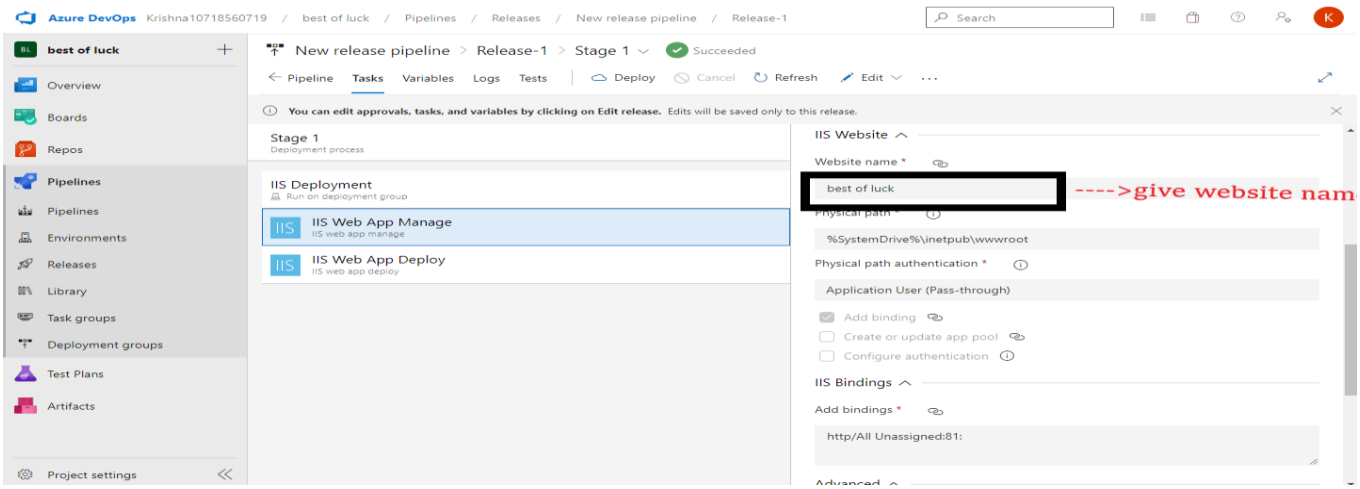
17.In IIS web app Manager click Enable IIs

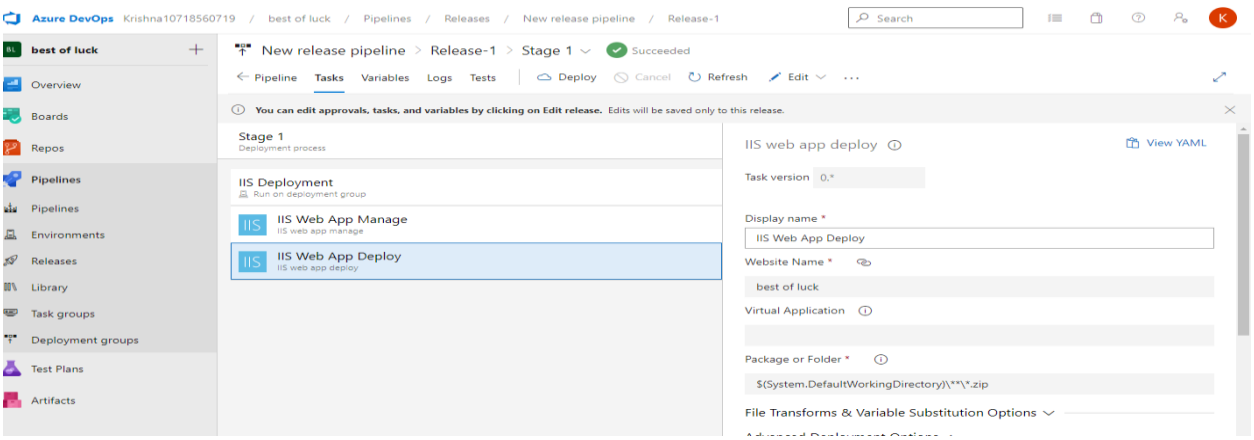


18. Select Deployment group server name

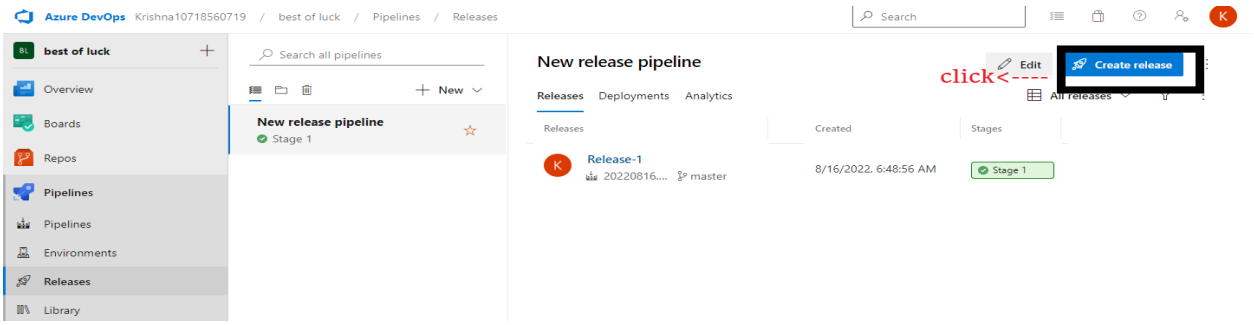


In the IIS web App manager give the website name

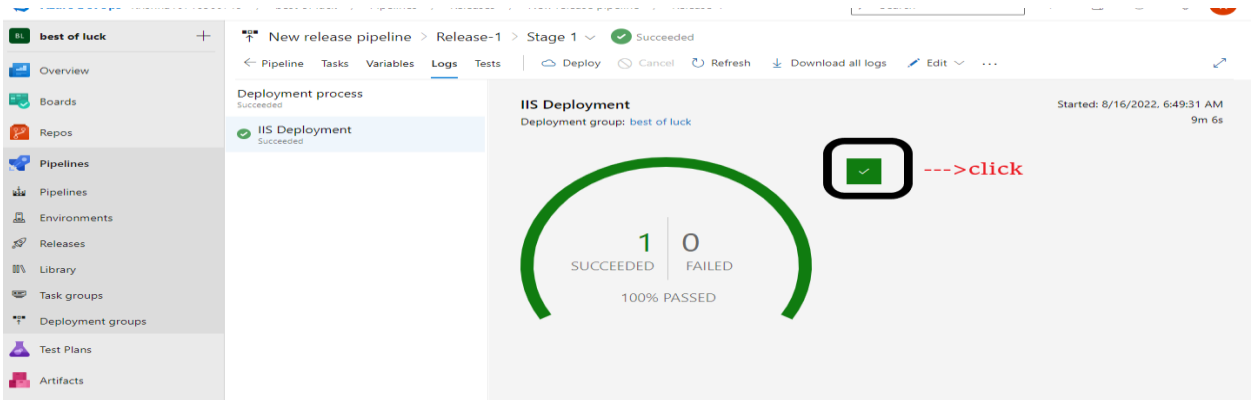




19. Click the release



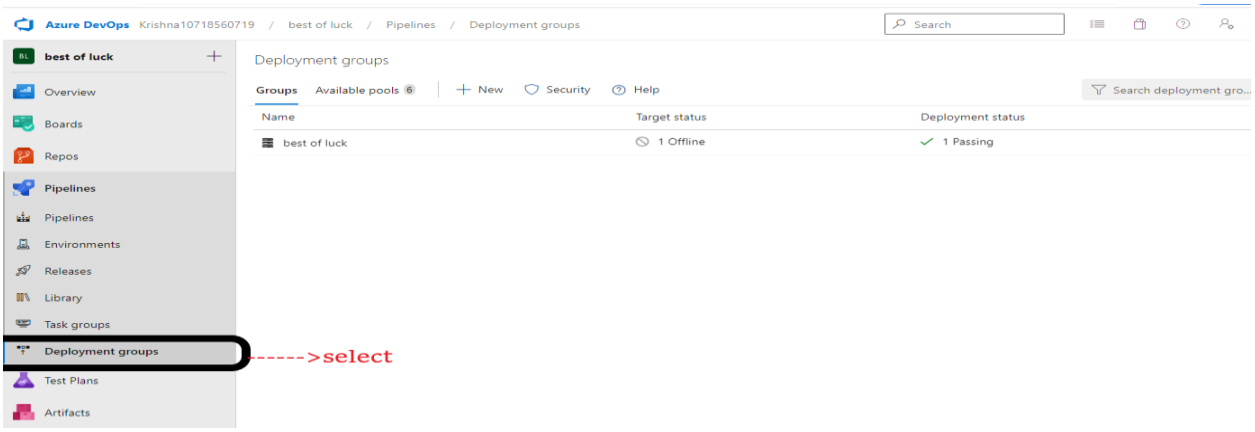
20. You will see this image click on right mark



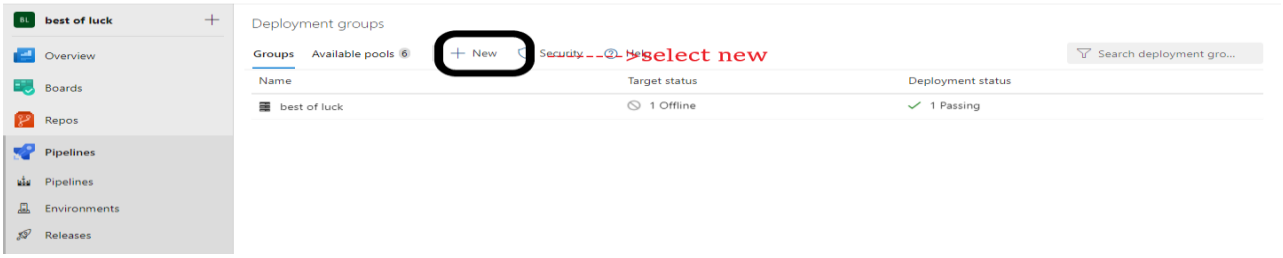
21. Click right we will get output

Before Create Release in the AWS cloud lunch ec2 windows 2019 server

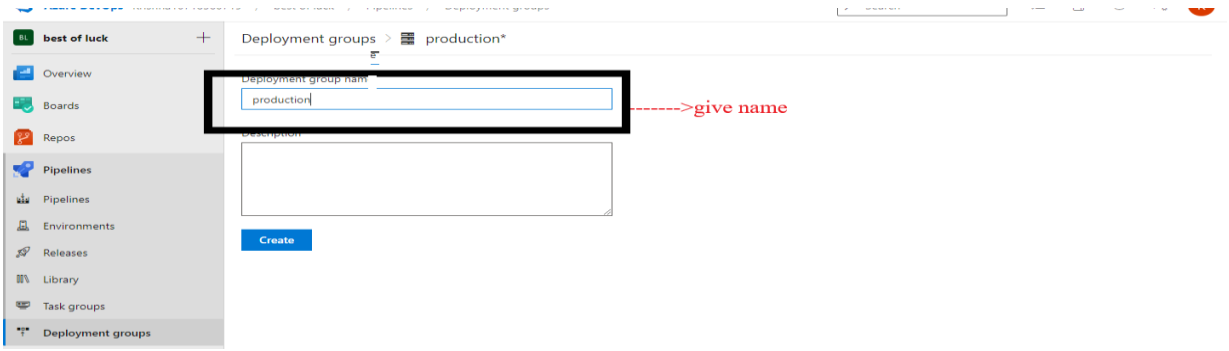
Select Deployment group



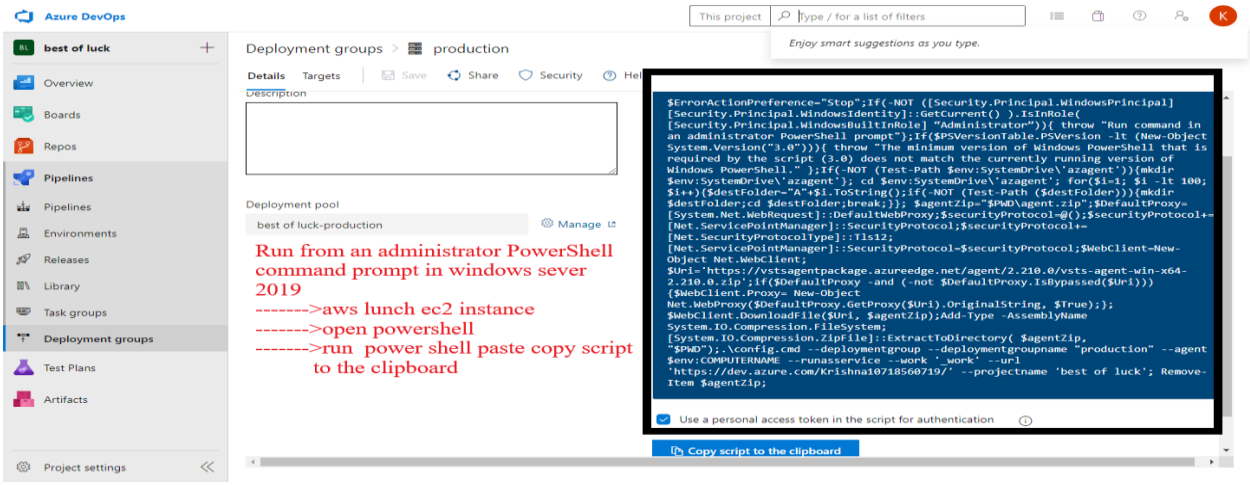
Click new option



Give the Deployment group name



Copy the script in the clipboard and past in the windows power sell, the power shell must run as administration



After words we have to click deployment online or offline, it should be online only deployment is successful