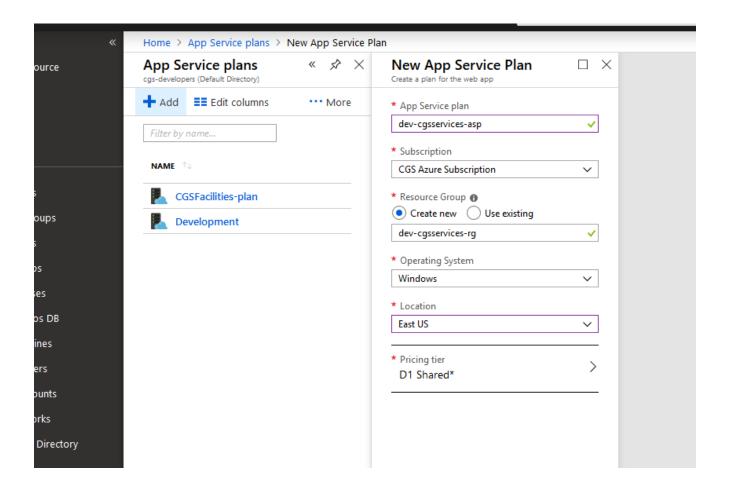
# CI & CD Setup

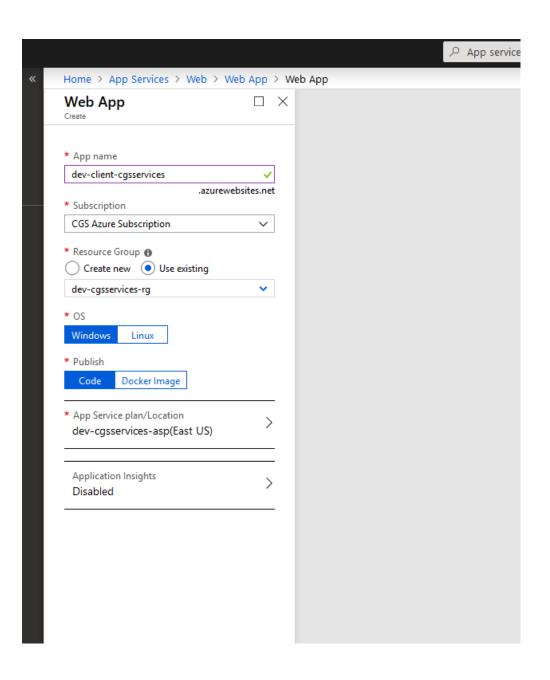
# **App Service Plan**

We choose D1 Shared Plan which cost very less and we can maintain 10 resources in this Service Plan.



# Web App

Setup web App's as per requirements.



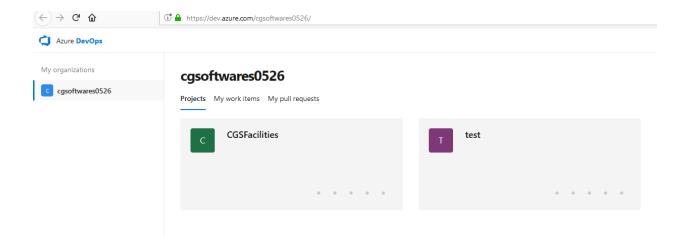


#### **Web App Details**

- **dev-api-cgsservices** (http://dev-api-cgsservices.azurewebsites.net)
- **dev-auth-cgsservices** (https://dev-auth-cgsservices.azurewebsites.net)
- dev-auth-client-cgsservices (https://dev-auth-client-cgsservices.azurewebsites.net)
- dev-auth-customer-cgsservices (https://dev-auth-customer-cgsservices.azurewebsites.net)
- dev-auth-provider-cgsservices (https://dev-auth-provider-cgsservices.azurewebsites.net)
- **dev-client-cgsservices** (http://dev-client-cgsservices.azurewebsites.net)
- dev-customer-cgsservices (http://dev-customer-cgsservices.azurewebsites.net)
- **dev-pm-cgsservices** (http://dev-pm-cgsservices.azurewebsites.net)
- **dev-provider-cgsservices** (http://dev-provider-cgsservices.azurewebsites.net)
- dev-scheduler-cgsservices (http://dev-scheduler-cgsservices.azurewebsites.net)

# **VSTS**

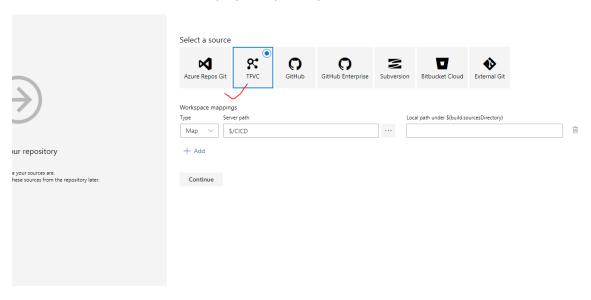
https://dev.azure.com/cgsoftwares0526/



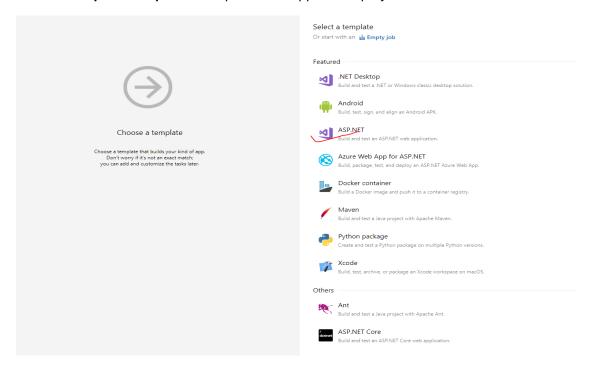
# For Continuous Integration (CI)

We Created New Build Pipeline for creating Continuous Integration (CI)

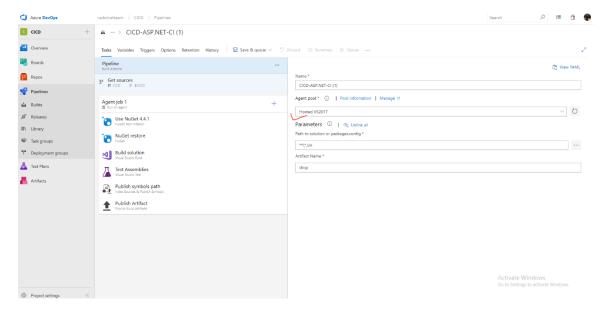
Select **TFVC** source and select our project repository.



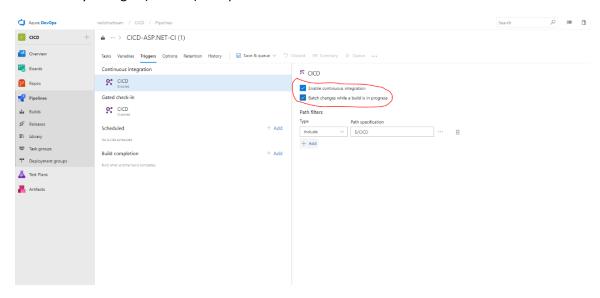
We Select Asp.Net template for Asp.net MVC application project.



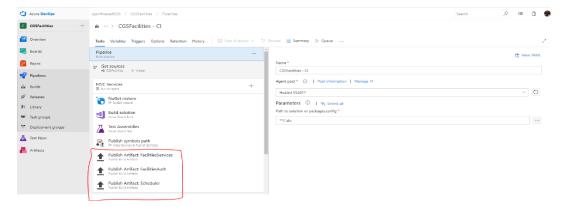
Select **Hosted VS2017** in Agent Pool for our build pipeline.



Select both **enable continuous integration** and **batch changes while a build is in Progress** for automatic build on any changes (commit) in repo.

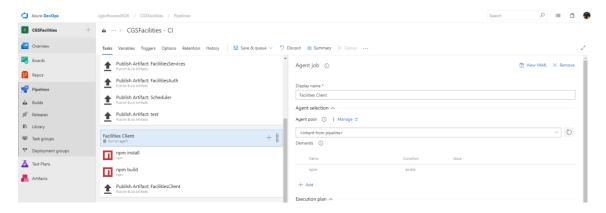


Created three Artifact: Facility Services, Facilities Auth and Scheduler for publish the three application in different containers: FacilitiesServicesdrop, FacilitiesAuth and Scheduler drop.

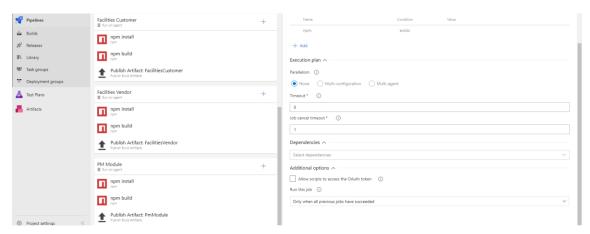


#### For Creating Build and artifacts for angular applications:-

Add new agent job (Facilities Client) in pipeline which have task: **npm install**, **npm build** and **Publish Artifact**.

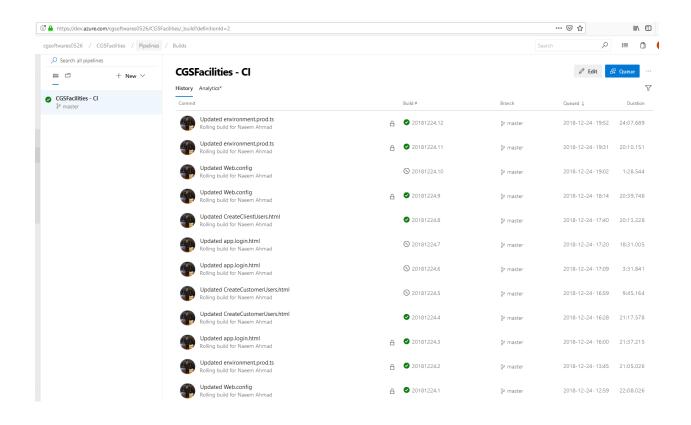


#### Added same for facilities Customer, vendor and Pm Module



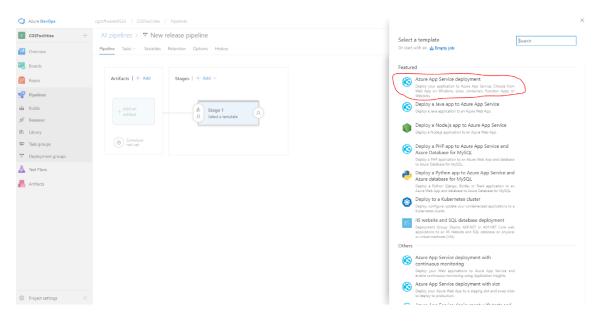
Now, we have 7 different artifacts container from one build and we can use them for deploying them to different app URL's. These artifacts container are mentioned below:-

FacilitiesServicesdrop, FacilitiesAuth, Schedulerdrop, FacilitiesClientdrop, FacilitiesCustomerDrop, FacilitiesVendorDrop and PMModuledrop

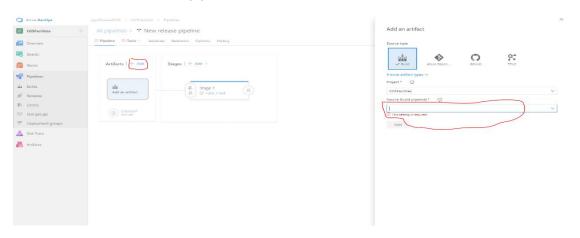


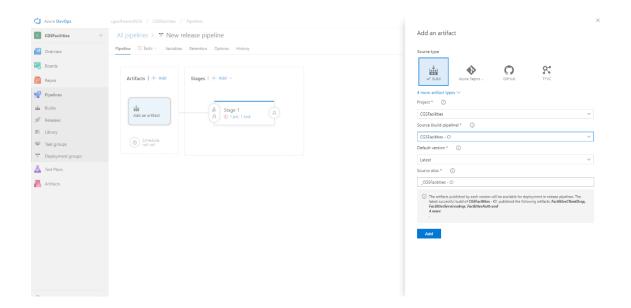
#### For Continuous Deployment (CD)

Created new release pipeline for Continuous Deployment (CD) and select **template Azure App Service Deploy** 

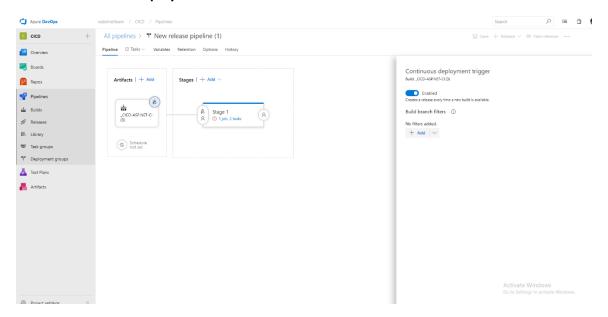


#### Add artifacts and select build pipeline

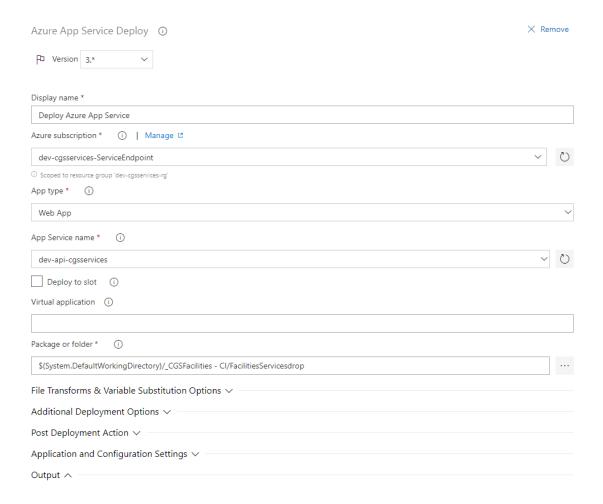




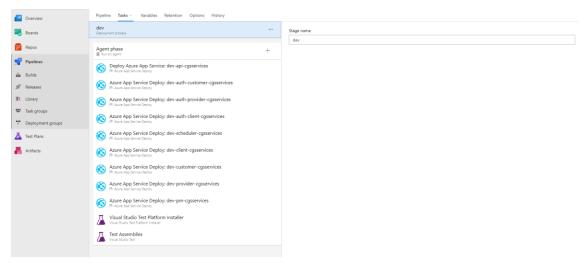
**Enable Continuous Deployment** for a release to be created each time a new build is available.



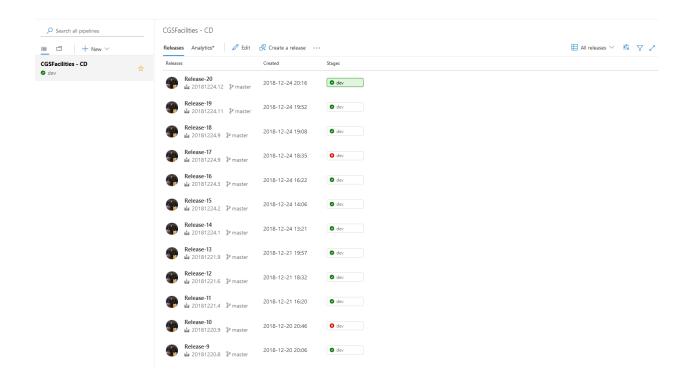
Configure Azure App Service Deploy with subscription and app service name of target machine.



We have use 8 Azure **App Service Deploy** template with same configuration to deploy in different app service targets



Created new release.



#### **Development**

- **dev-api-cgsservices** (http://dev-api-cgsservices.azurewebsites.net)
- **dev-auth-cgsservices** (https://dev-auth-cgsservices.azurewebsites.net)
- dev-auth-client-cgsservices (https://dev-auth-client-cgsservices.azurewebsites.net)
- **dev-auth-customer-cgsservices** (https://dev-auth-customer-cgsservices.azurewebsites.net)
- dev-auth-provider-cgsservices (https://dev-auth-provider-cgsservices.azurewebsites.net)
- **dev-client-cgsservices** (http://dev-client-cgsservices.azurewebsites.net)
- dev-customer-cgsservices (http://dev-customer-cgsservices.azurewebsites.net)
- **dev-pm-cgsservices** (http://dev-pm-cgsservices.azurewebsites.net)
- **dev-provider-cgsservices** (http://dev-provider-cgsservices.azurewebsites.net)
- dev-scheduler-cgsservices (http://dev-scheduler-cgsservices.azurewebsites.net)

#### **Pre-Production**

- **preprod-api-cgsservices** (http://preprod-api-cgsservices.azurewebsites.net)
- preprod-auth-cgsservices (https://preprod-auth-cgsservices.azurewebsites.net)
- preprod-auth-client-cgsservices (https://preprod-auth-client-cgsservices.azurewebsites.net)
- preprod-auth-customer-cgsservices (https://preprod-auth-customercgsservices.azurewebsites.net)
- preprod-auth-provider-cgsservices (https://preprod-auth-provider-cgsservices.azurewebsites.net)
- preprod-client-cgsservices (http://preprod-client-cgsservices.azurewebsites.net)
- preprod-customer-cgsservices (http://preprod-customer-cgsservices.azurewebsites.net)
- **preprod-pm-cgsservices** (http://preprod-pm-cgsservices.azurewebsites.net)
- preprod-provider-cgsservices (http://preprod-provider-cgsservices.azurewebsites.net)
- preprod-scheduler-cgsservices (http://preprod-scheduler-cgsservices.azurewebsites.net)

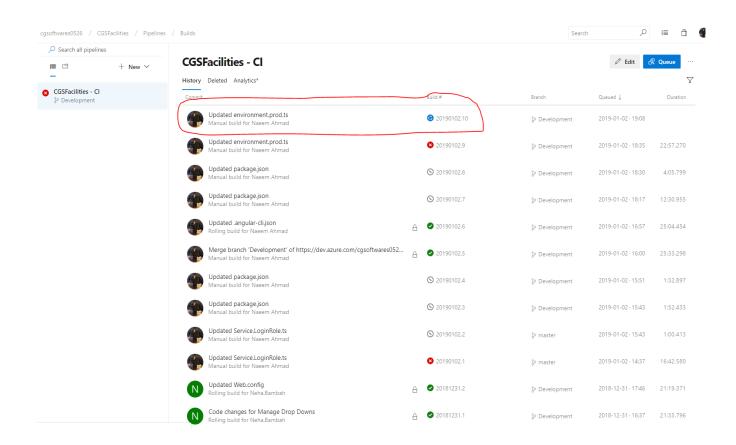
#### **Production**

- **prod-api-cgsservices** (http://prod-api-cgsservices.azurewebsites.net)
- **prod-auth-cgsservices** (https://prod -auth-cgsservices.azurewebsites.net)
- **prod-auth-client-cgsservices** (https://prod -auth-client-cgsservices.azurewebsites.net)
- prod-auth-customer-cgsservices (https://prod-auth-customer-cgsservices.azurewebsites.net)
- **prod-auth-provider-cgsservices** (https://prod-auth-provider-cgsservices.azurewebsites.net)
- **prod-client-cgsservices** (http://prod-client-cgsservices.azurewebsites.net)
- prod-customer-cgsservices (http://prod-customer-cgsservices.azurewebsites.net)
- **prod-pm-cgsservices** (http://prod-pm-cgsservices.azurewebsites.net)
- **prod-provider-cgsservices** (http://prod-provider-cgsservices.azurewebsites.net)
- **prod-scheduler-cgsservices** (http://prod-scheduler-cgsservices.azurewebsites.net)

# **Approval Workflow**

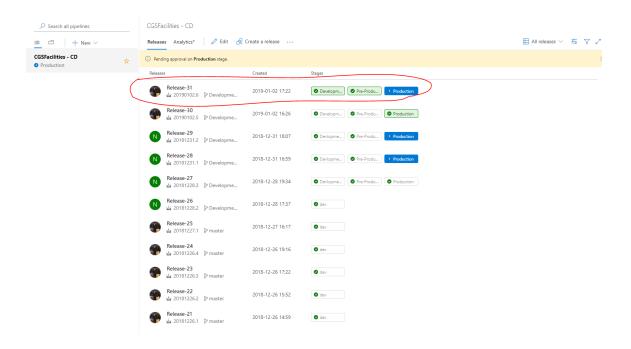
After check-in code, CI start the build automatically

URL: https://dev.azure.com/cgsoftwares0526/CGSFacilities/\_build?definitionId=2

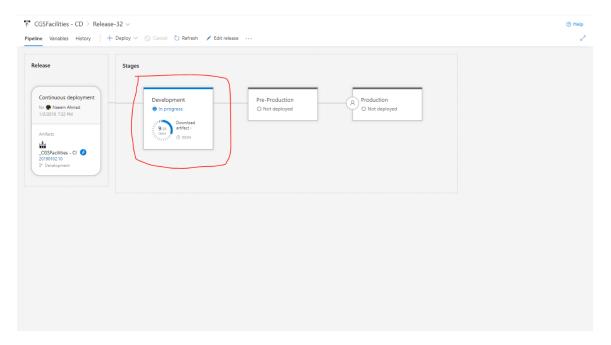


After build complete, deployment will started automatically on latest build

URL: https://dev.azure.com/cgsoftwares0526/CGSFacilities/\_release?view=mine&definitionId=1



To see the continuous deployment, please click the release which is in processing



There are three stages in Release:-

### **Development**

It will automatically triggered and deploy the apps on below mentioned urls

http://dev-customer-cgsservices.azurewebsites.net

http://dev-client-cgsservices.azurewebsites.net

http://dev-provider-cgsservices.azurewebsites.net

http://dev-api-cgsservices.azurewebsites.net

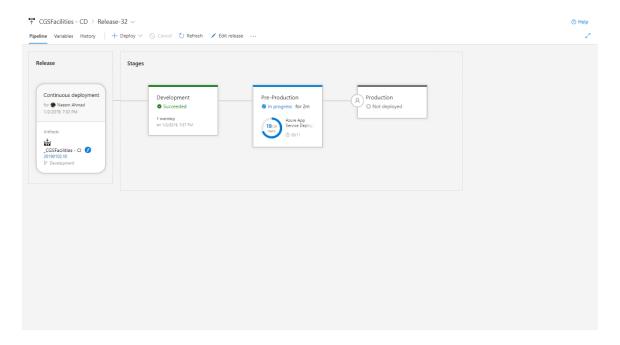
http://dev-scheduler-cgsservices.azurewebsites.net

https://dev-auth-client-cgsservices.azurewebsites.net

https://dev-auth-customer-cgsservices.azurewebsites.net

https://dev-auth-provider-cgsservices.azurewebsites.net

https://dev-pm-cgsservices.azurewebsites.net



#### **PreProduction**

It will trigger automatically and wait for approval after **Development** stage complete, After approved by admin or approvers it'll deployed in below mentioned urls:

http://preprod-customer-cgsservices.azurewebsites.net

http://preprod-client-cgsservices.azurewebsites.net

http://preprod-provider-cgsservices.azurewebsites.net

http://preprod-api-cgsservices.azurewebsites.net

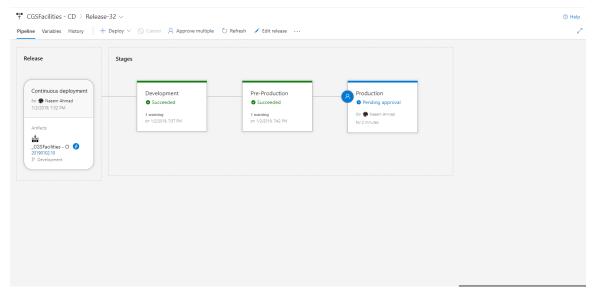
http://preprod-scheduler-cgsservices.azurewebsites.net

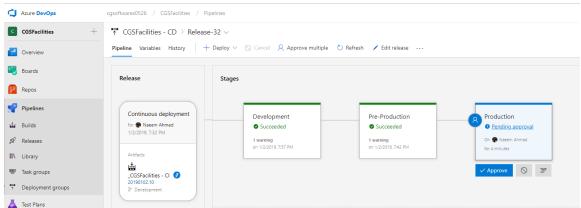
https://preprod-auth-client-cgsservices.azurewebsites.net

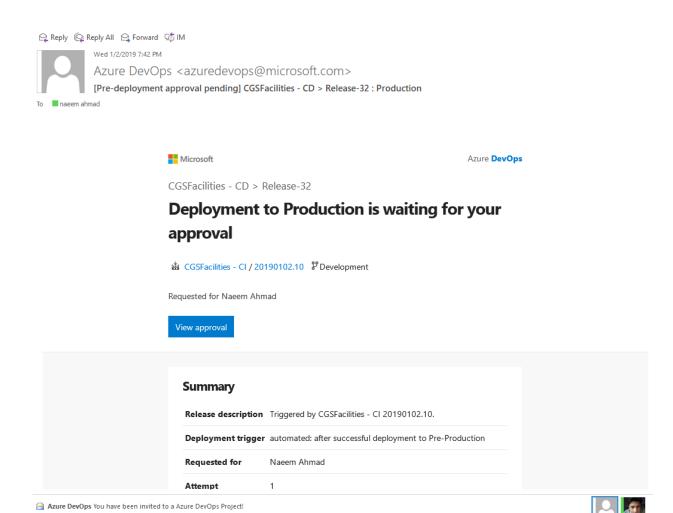
https://preprod-auth-customer-cgsservices.azurewebsites.net

https://preprod-auth-provider-cgsservices.azurewebsites.net

https://preprod-pm-cgsservices.azurewebsites.net







#### **Production**

It will trigger automatically and wait for approval after **PreProduction** stage complete, After approved by admin or assigned approvers it'll deployed in below mentioned urls:

http://prod-customer-cgsservices.azurewebsites.net

http://prod-client-cgsservices.azurewebsites.net

http://prod-provider-cgsservices.azurewebsites.net

http://prod-api-cgsservices.azurewebsites.net

http://prod-scheduler-cgsservices.azurewebsites.net

https://prod-auth-client-cgsservices.azurewebsites.net

https://prod-auth-customer-cgsservices.azurewebsites.net

https://prod-auth-provider-cgsservices.azurewebsites.net

https://prod-customer-cgsservices.azurewebsites.net

https://prod-client-cgsservices.azurewebsites.net

https://prod-provider-cgsservices.azurewebsites.net

https://prod-pm-cgsservices.azurewebsites.net