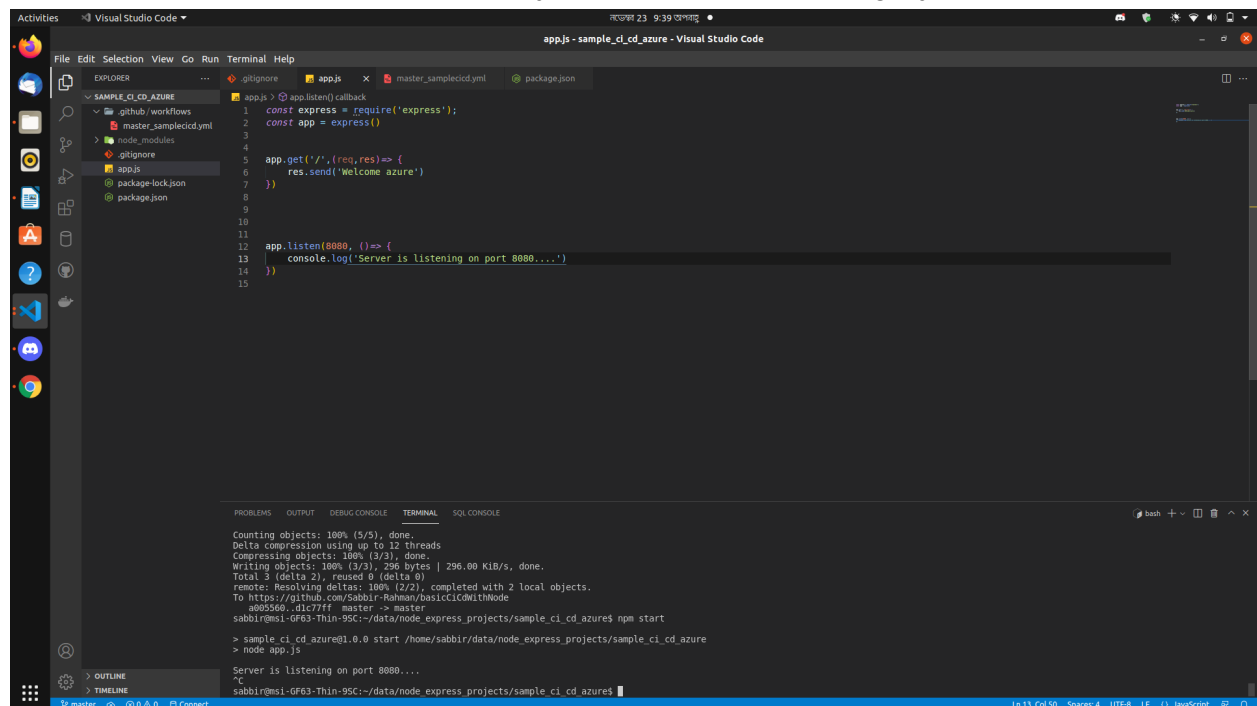


First create a github repository and connect it with the sample node project then commit the first commit with simple get request message. Remember to write main js file as app.js because it is default in azure and write start(node app.js) command in the package. json file



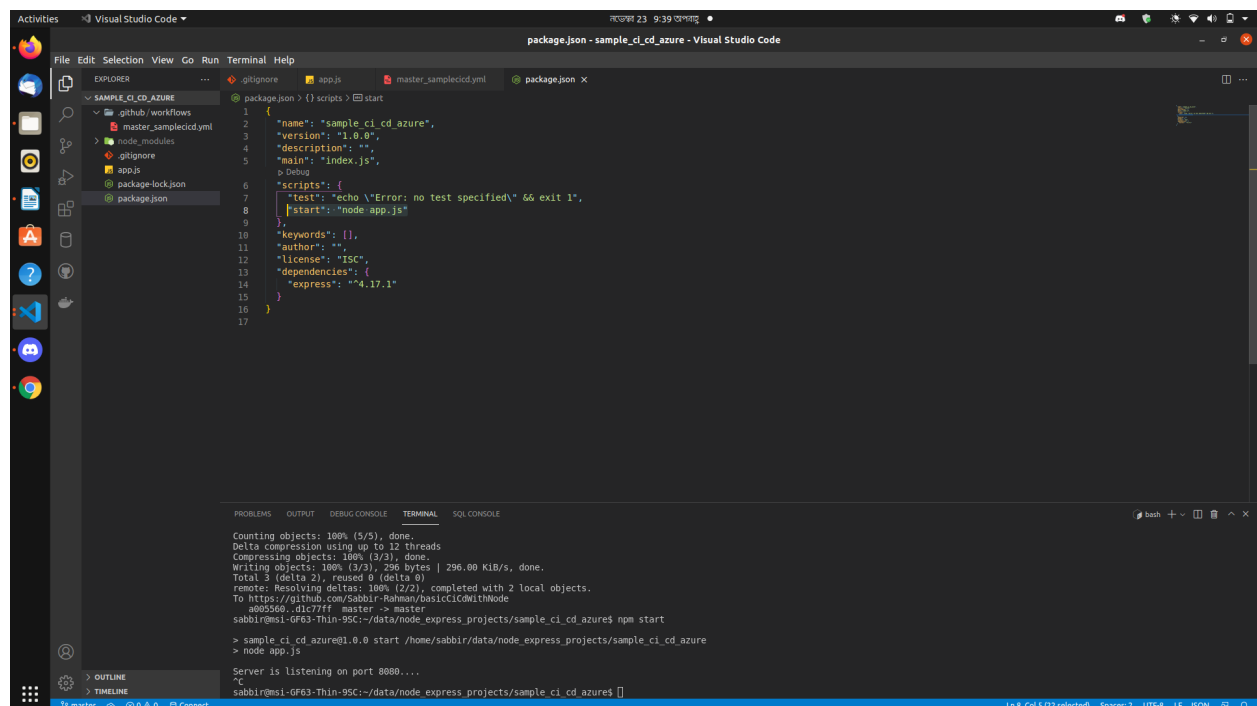
The screenshot shows the Visual Studio Code editor with the file explorer on the left displaying the project structure. The main editor window shows the `app.js` file with the following code:

```
1 const express = require('express');
2 const app = express()
3
4
5 app.get('/', (req, res) => {
6   res.send('Welcome azure')
7 })
8
9
10
11
12 app.listen(8080, () => {
13   console.log('Server is listening on port 8080.....')
14 })
15
```

The terminal at the bottom shows the output of the `npm start` command, indicating that the server is listening on port 8080.

```
Counting objects: 100% (5/5), done.
Delta compression using up to 12 threads
Compressing objects: 100% (3/3), done.
Writing objects: 100% (3/3), 296 bytes | 296.00 KiB/s, done.
Total 5 (delta 2), reused 0 (delta 0)
remote: Resolving deltas: 100% (2/2), completed with 2 local objects.
To https://github.com/Sabbir-Rahman/basicCICDWithNode
a005500.d1c77ff master -> master
sabbir@msi-GF63-Thin-95C:~/data/node-express-projects/sample_ci_cd_azure$ npm start
> sample_ci_cd_azure@1.0.0 start /home/sabbir/data/node-express-projects/sample_ci_cd_azure
> node app.js

Server is listening on port 8080....
^C
sabbir@msi-GF63-Thin-95C:~/data/node-express-projects/sample_ci_cd_azure$
```



The screenshot shows the Visual Studio Code editor with the file explorer on the left displaying the project structure. The main editor window shows the `package.json` file with the following code:

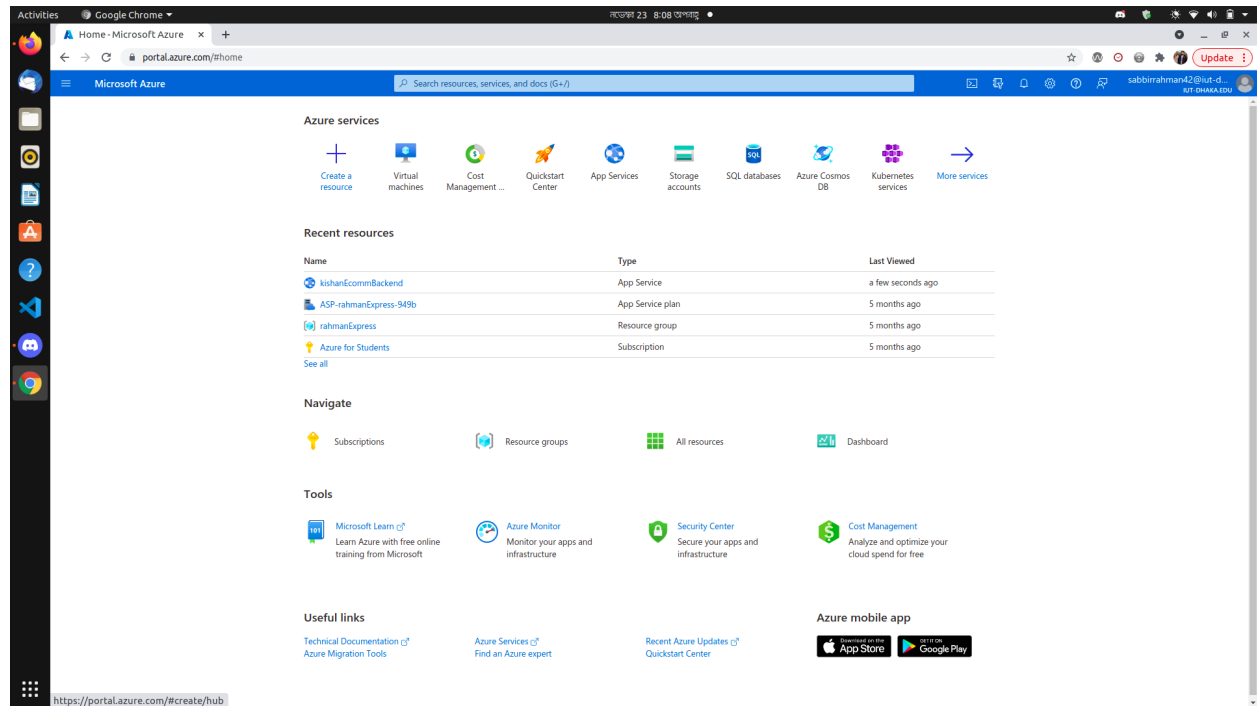
```
1 {
2   "name": "sample_ci_cd_azure",
3   "version": "1.0.0",
4   "description": "",
5   "main": "index.js",
6   "scripts": {
7     "test": "echo \"Error: no test specified\" && exit 1",
8     "start": "node app.js"
9   },
10  "keywords": [],
11  "author": "",
12  "license": "ISC",
13  "dependencies": {
14    "express": "^4.17.1"
15  }
16 }
17
```

The terminal at the bottom shows the output of the `npm start` command, indicating that the server is listening on port 8080.

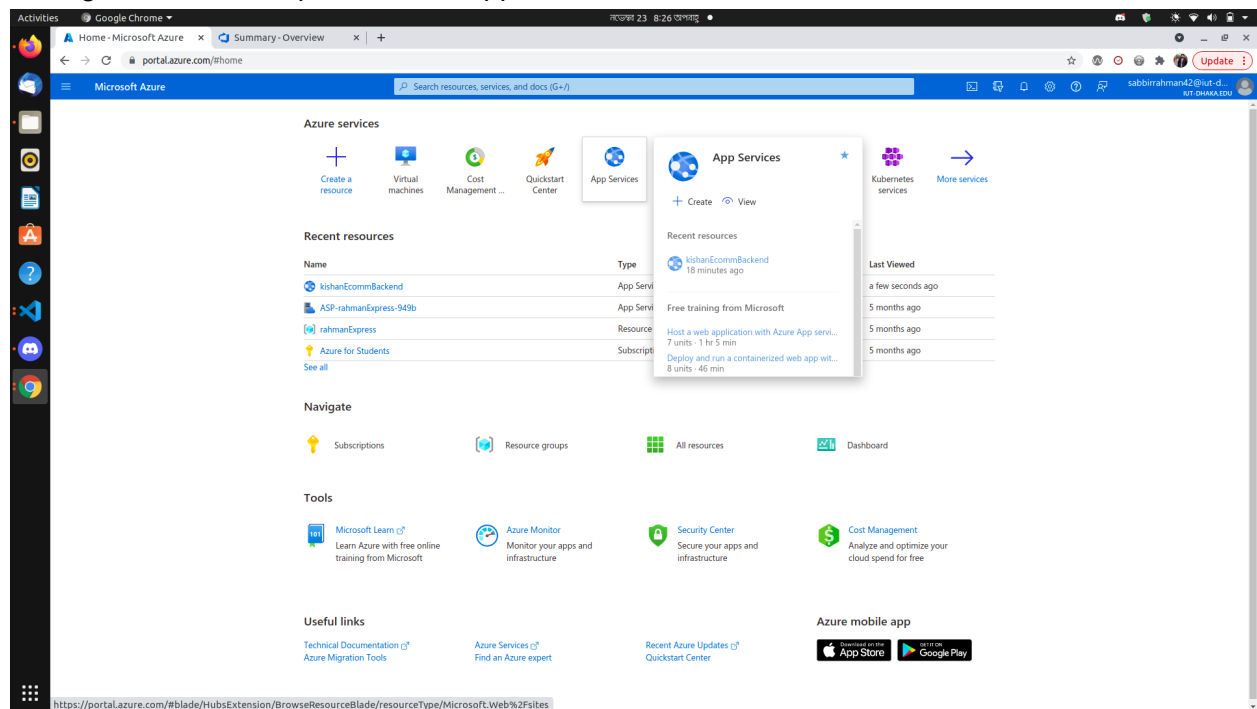
```
Counting objects: 100% (5/5), done.
Delta compression using up to 12 threads
Compressing objects: 100% (3/3), done.
Writing objects: 100% (3/3), 296 bytes | 296.00 KiB/s, done.
Total 3 (delta 2), reused 0 (delta 0)
remote: Resolving deltas: 100% (2/2), completed with 2 local objects.
To https://github.com/Sabbir-Rahman/basicCICDWithNode
a005500.d1c77ff master -> master
sabbir@msi-GF63-Thin-95C:~/data/node-express-projects/sample_ci_cd_azure$ npm start
> sample_ci_cd_azure@1.0.0 start /home/sabbir/data/node-express-projects/sample_ci_cd_azure
> node app.js

Server is listening on port 8080....
^C
sabbir@msi-GF63-Thin-95C:~/data/node-express-projects/sample_ci_cd_azure$
```

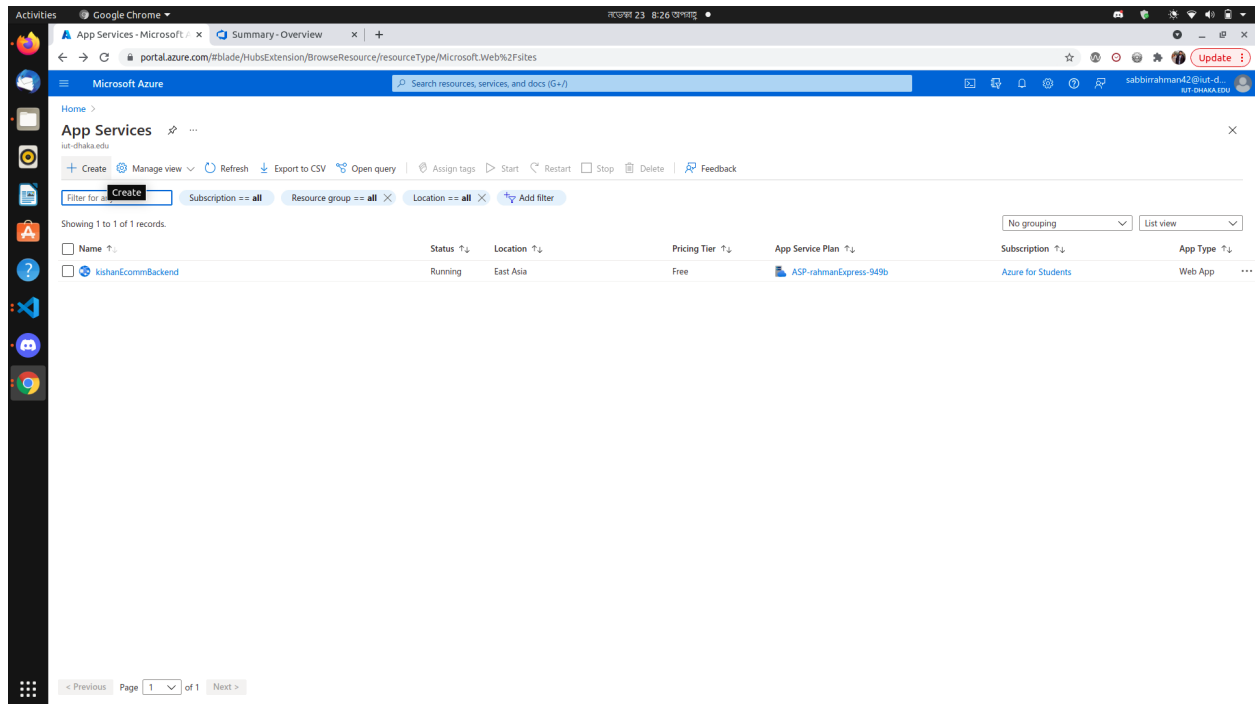
Then sign in to azure portal <https://portal.azure.com/#home> with the iut email account. Iut email account will give you 100 dollar free credit. Sign up if not have an account



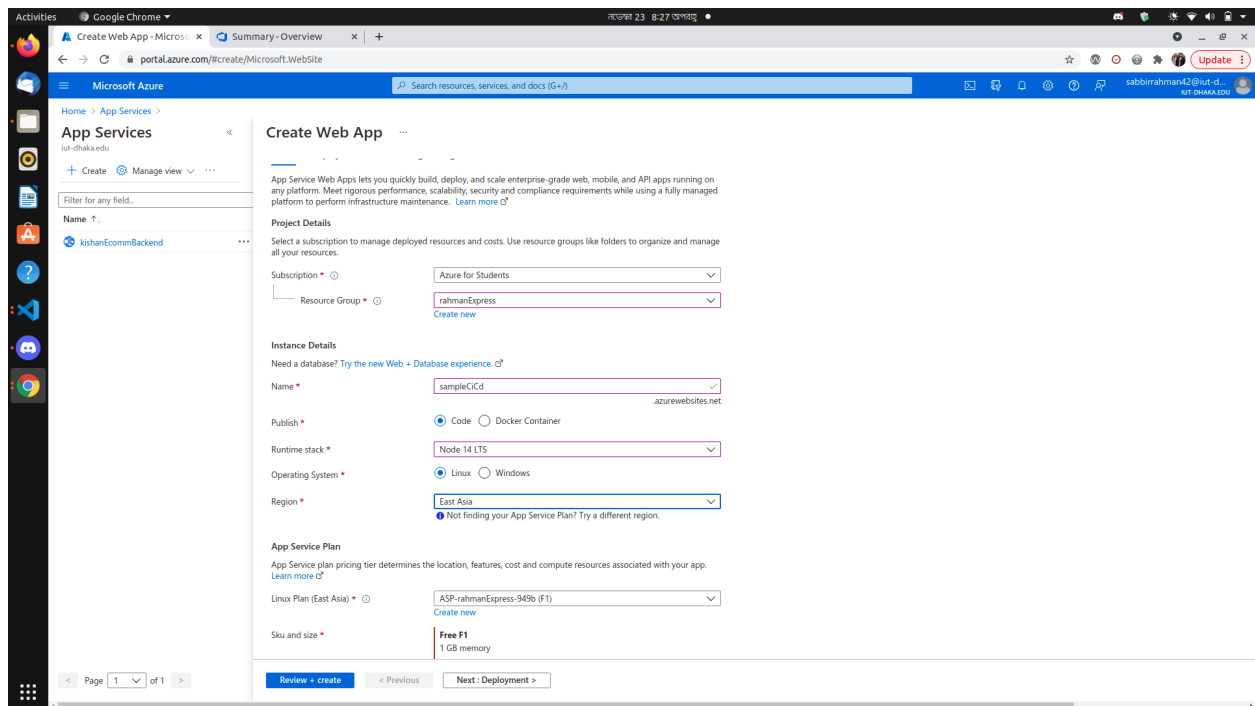
Then go to azure web portal. Go to app service

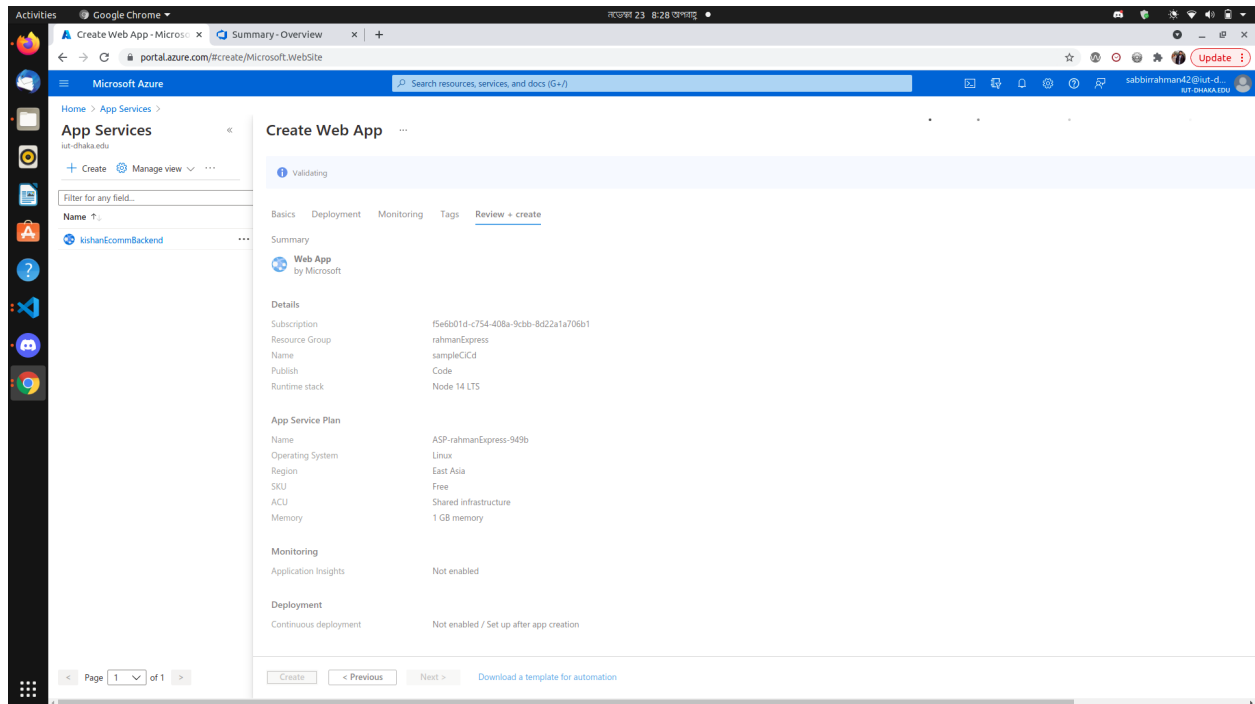


Then create a new app service

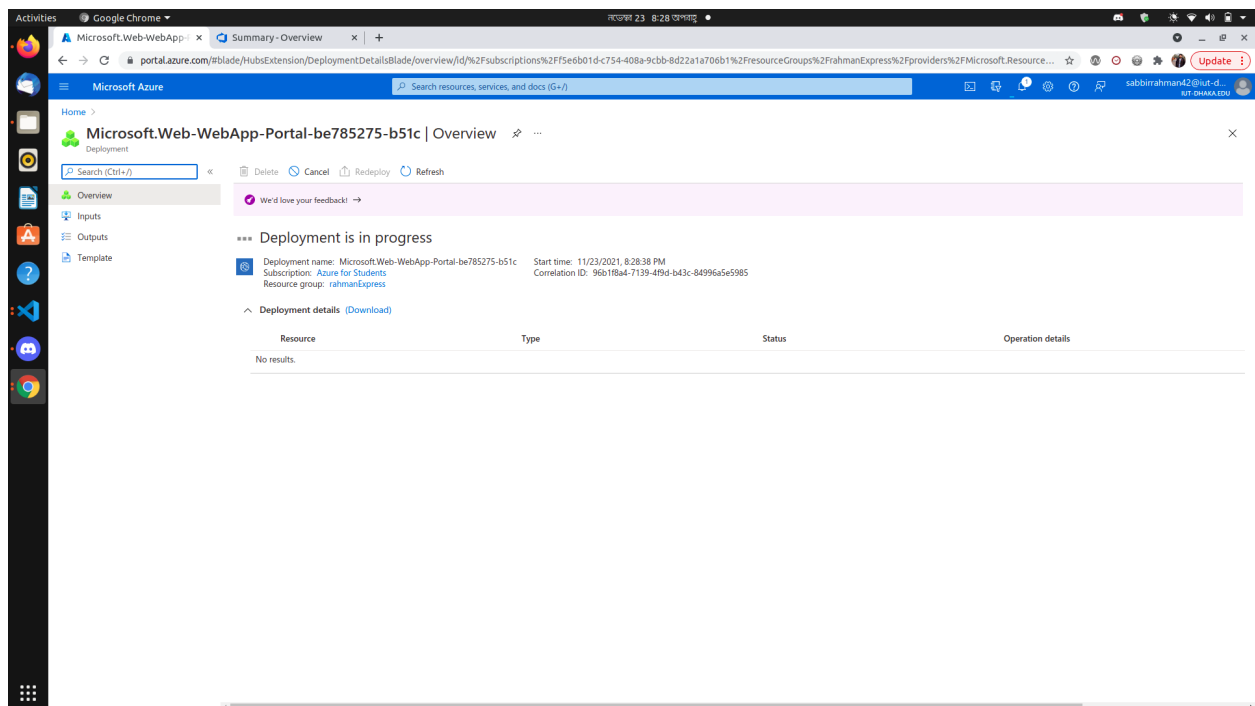


Choose subscription azure for students, resource group if created, choose the web app name as you like, choose the runtime environment node 14 lts, region as you like but it's better to choose close region . Check size and then click **review create**

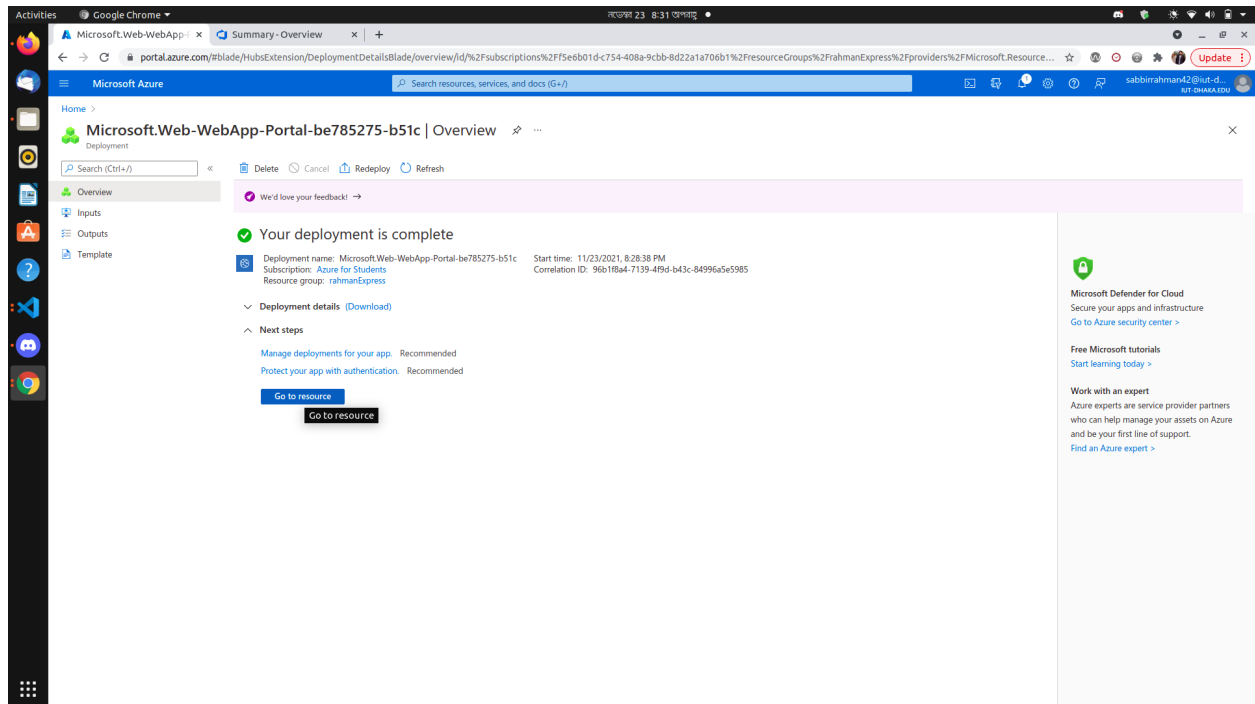




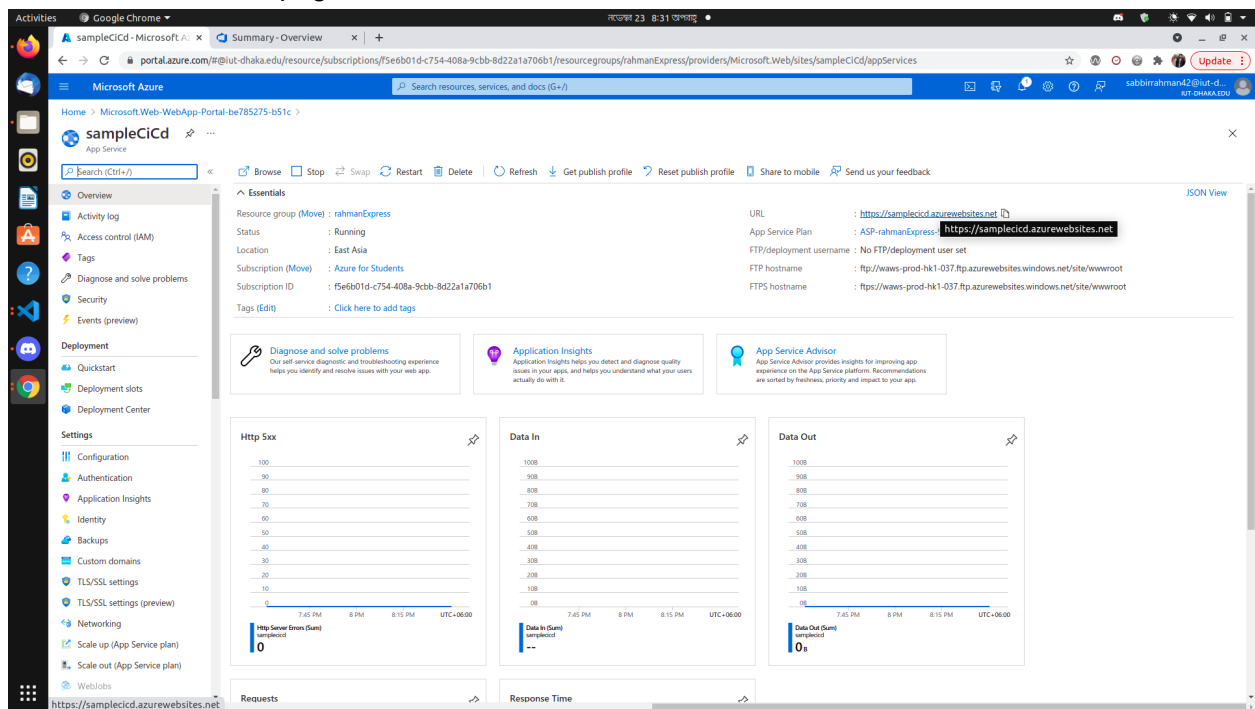
It will take some time



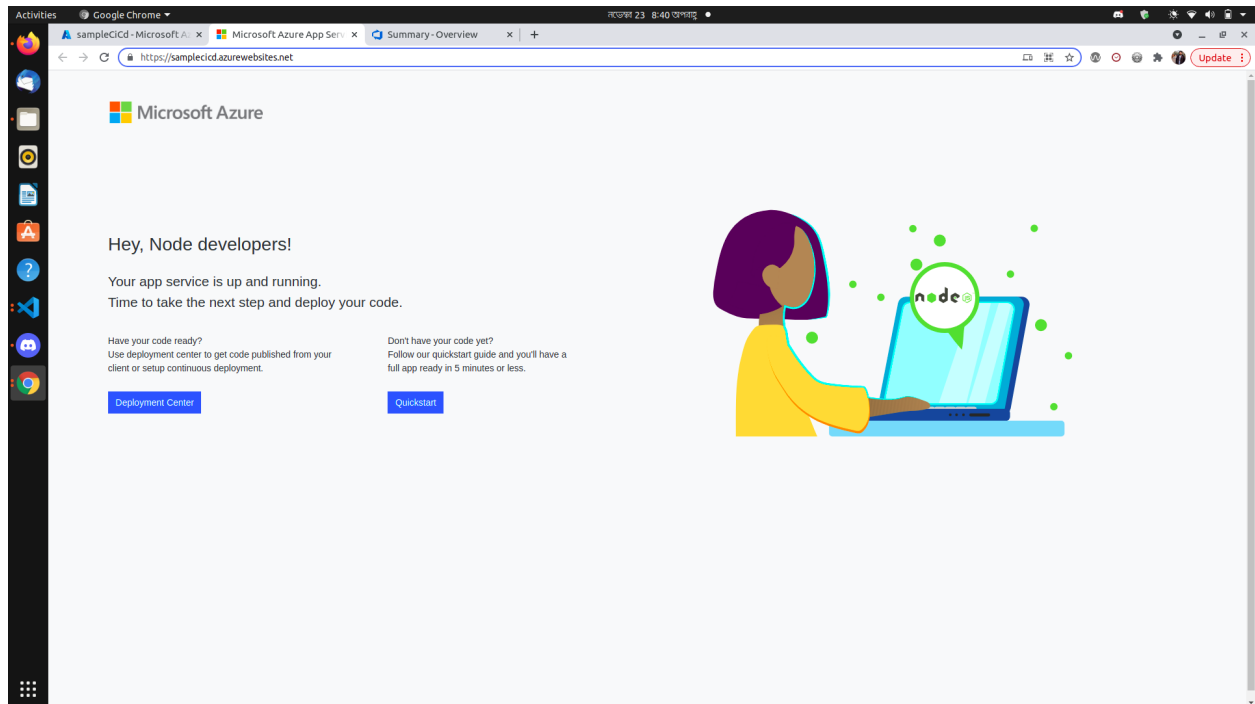
After deployment is finished click on go to resource



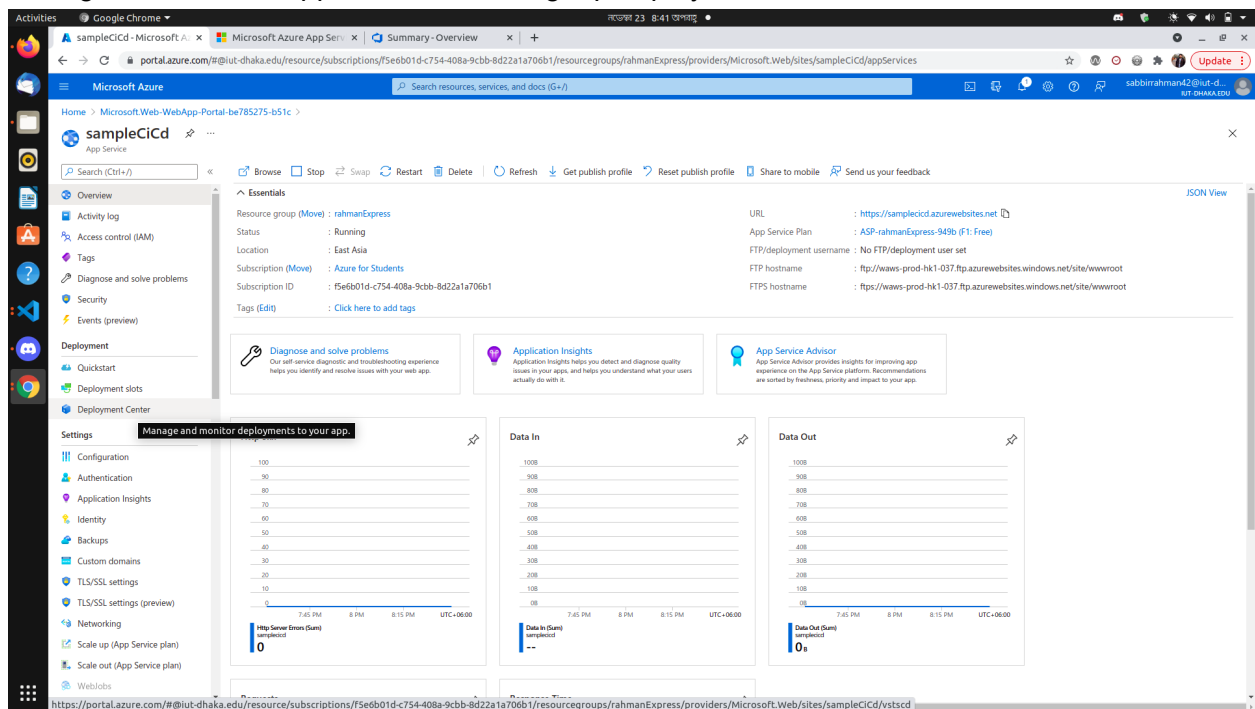
Then detail resource page is found



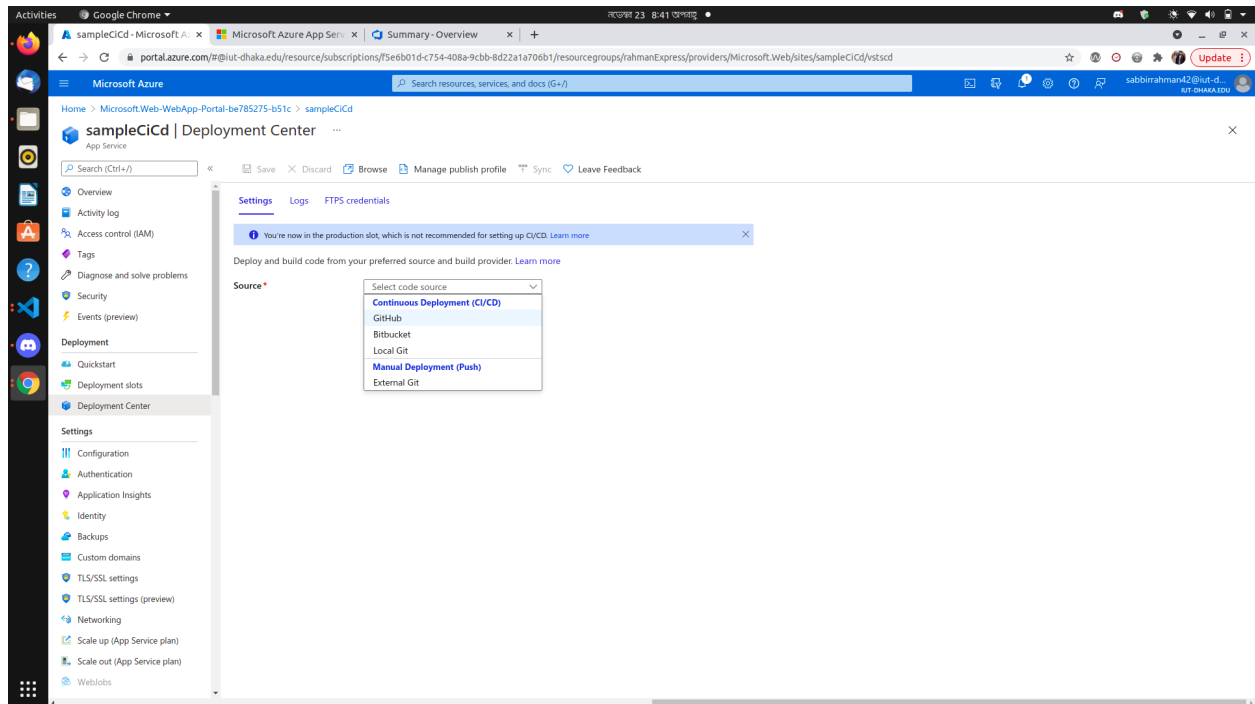
Go to url for me it is <https://samplecicd.azurewebsites.net/>. If everything is ok this page will come



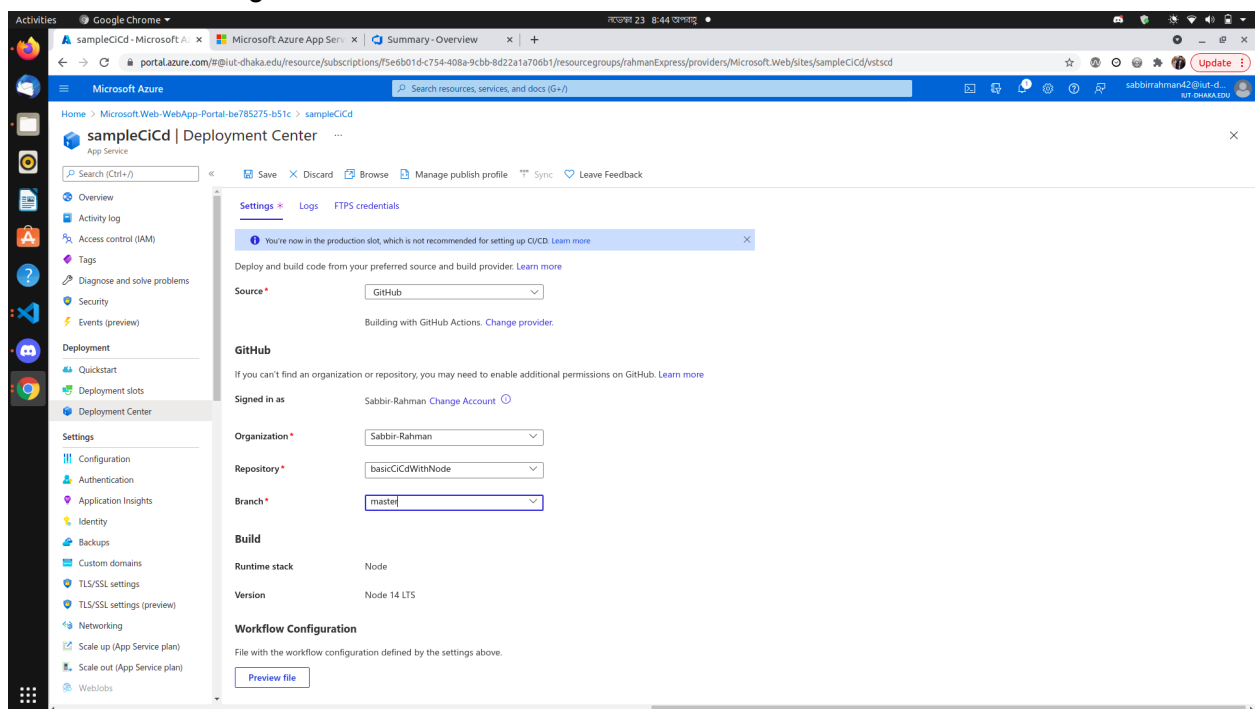
Then go back to web app dashboard and go to deployment center section



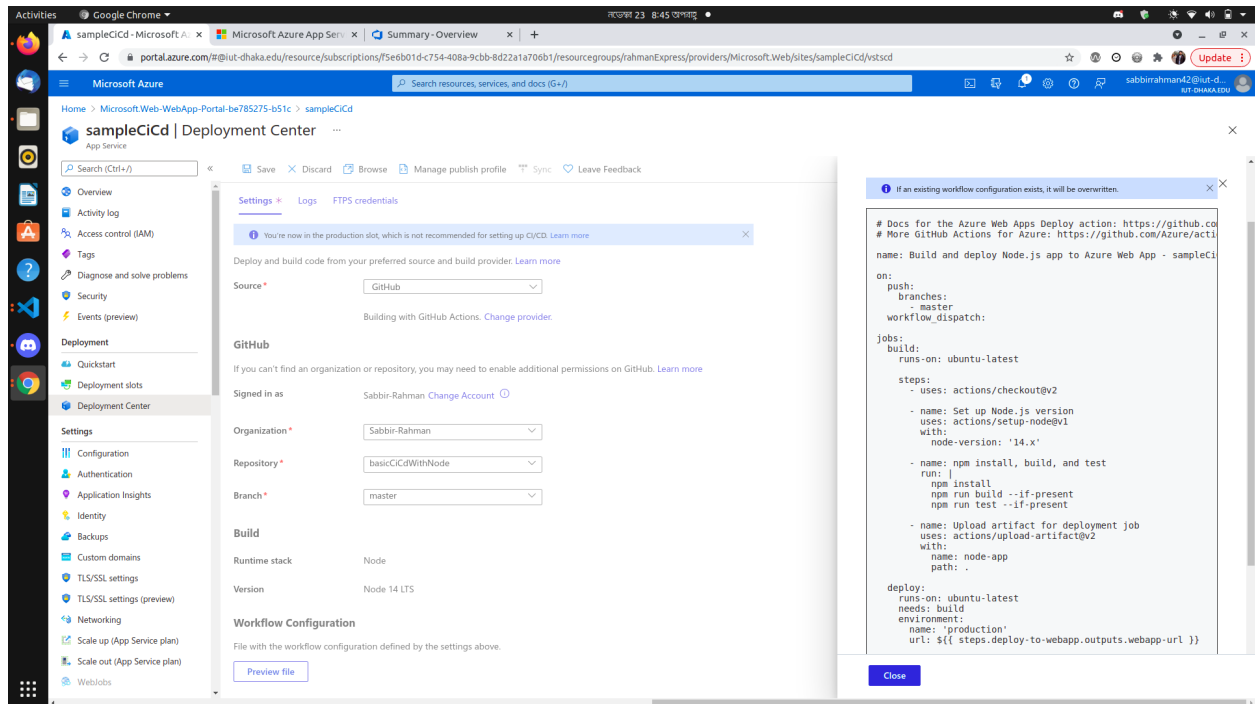
And click on that



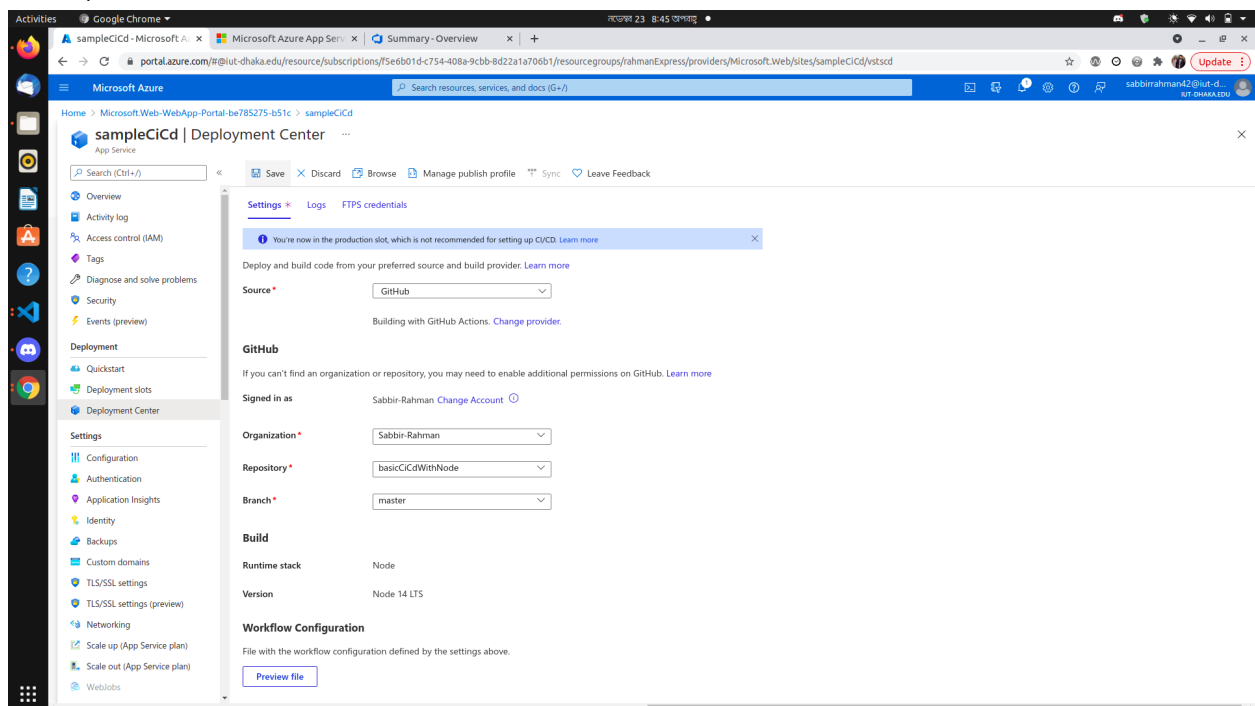
Choose source as github



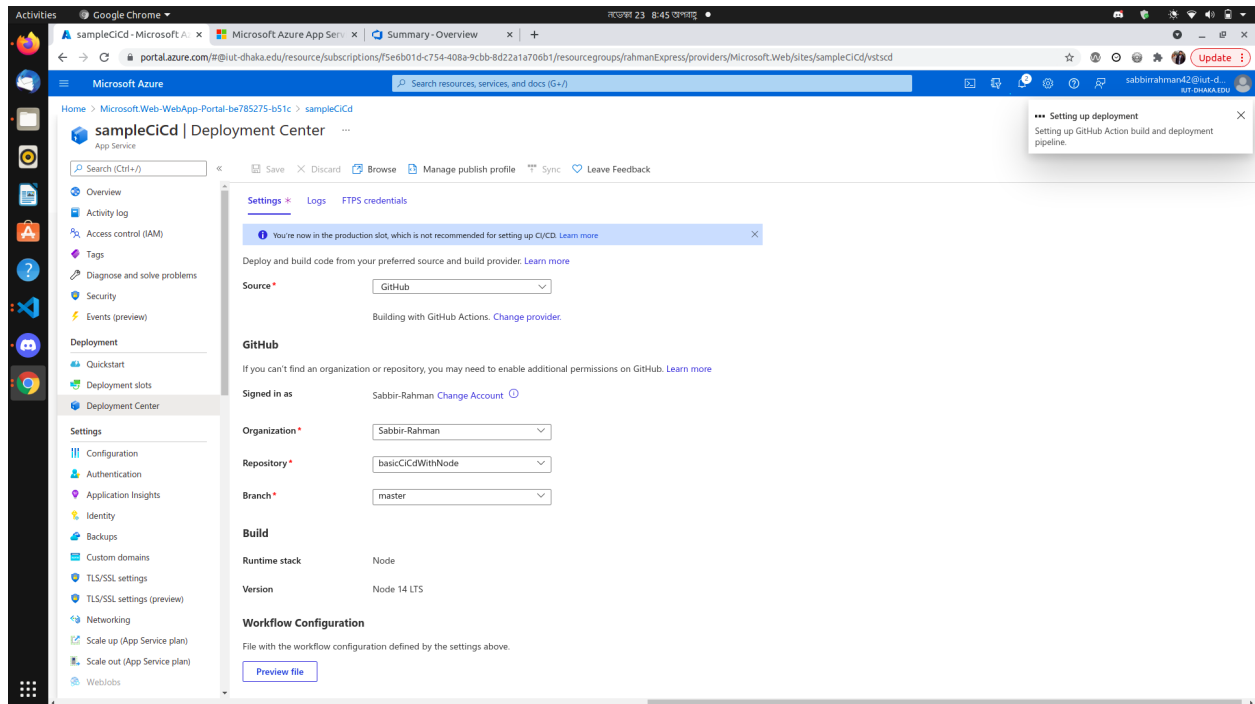
Authenticate github write organization name and repository name. Choose branch on which you commit then automatically it will publish. Check runtime stack. Then preview file



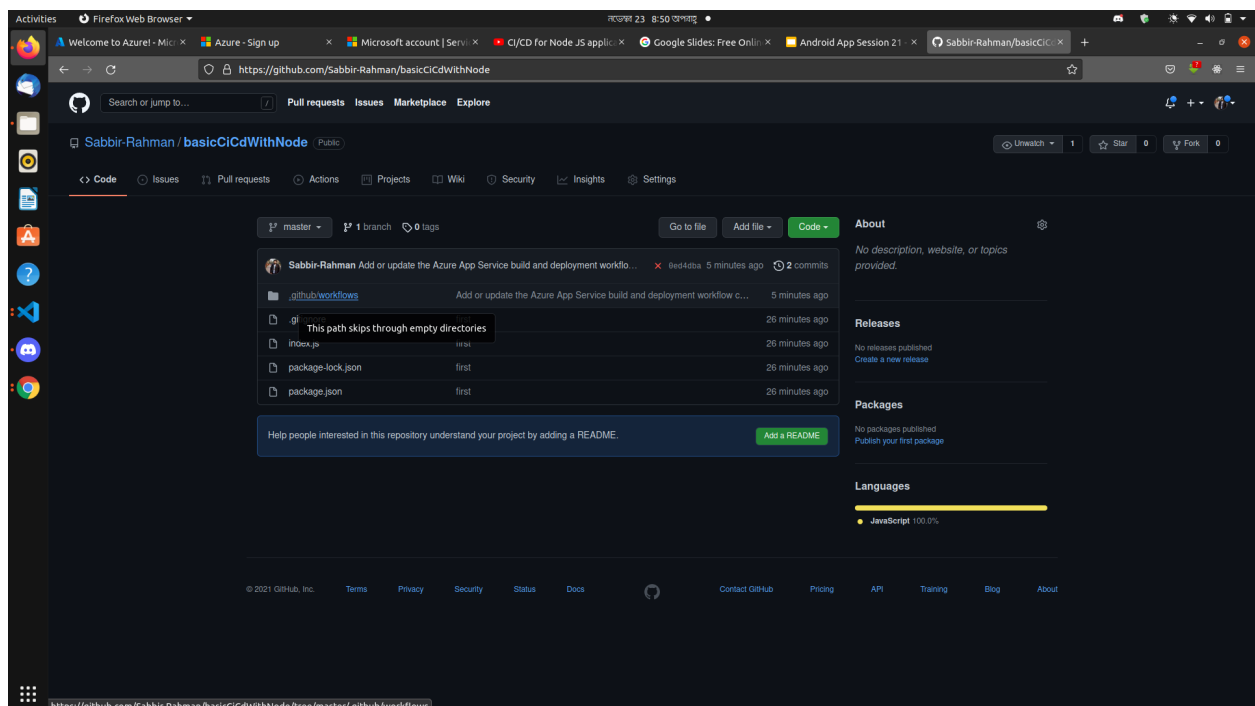
On the right hand side you will see a github.yml file that is going to be add to your github repo. As it is very basic ci cd don't worry about the preview file just save it (click on the top save button)



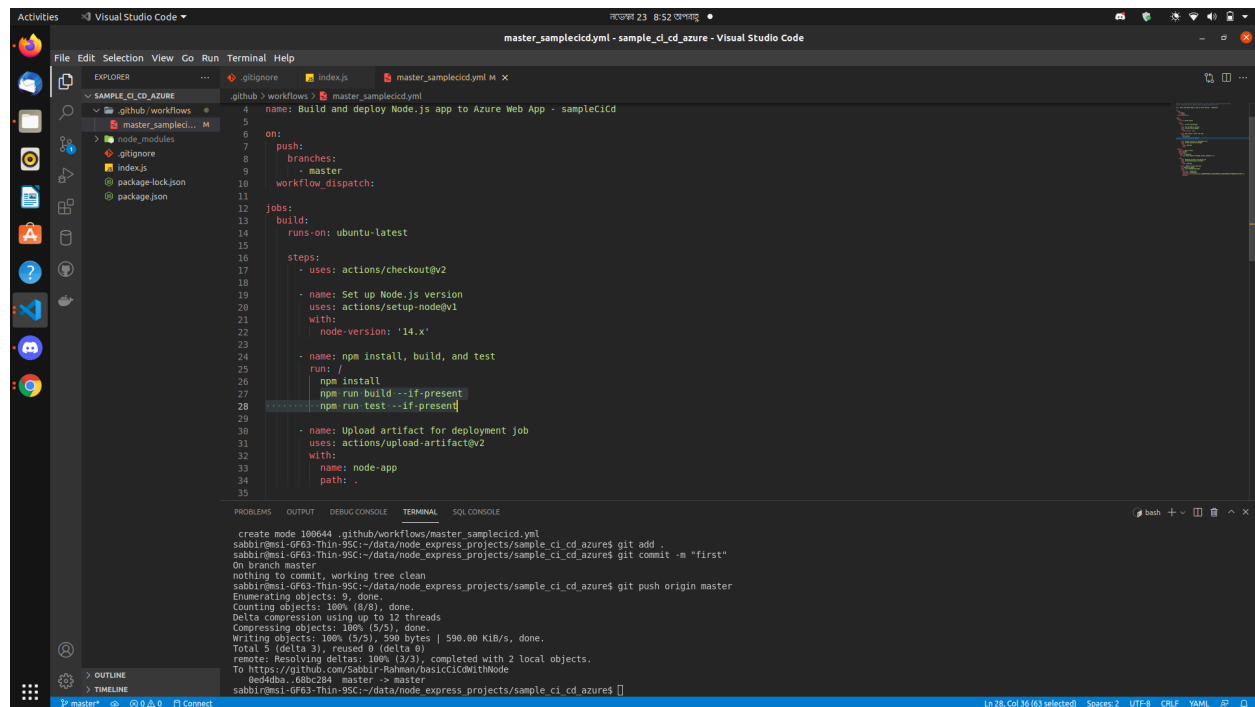
It should take some time



After it complete. If you notice your github repository you will see a yml file is add with a github folder. As this github folder is not in your local repository merge it.



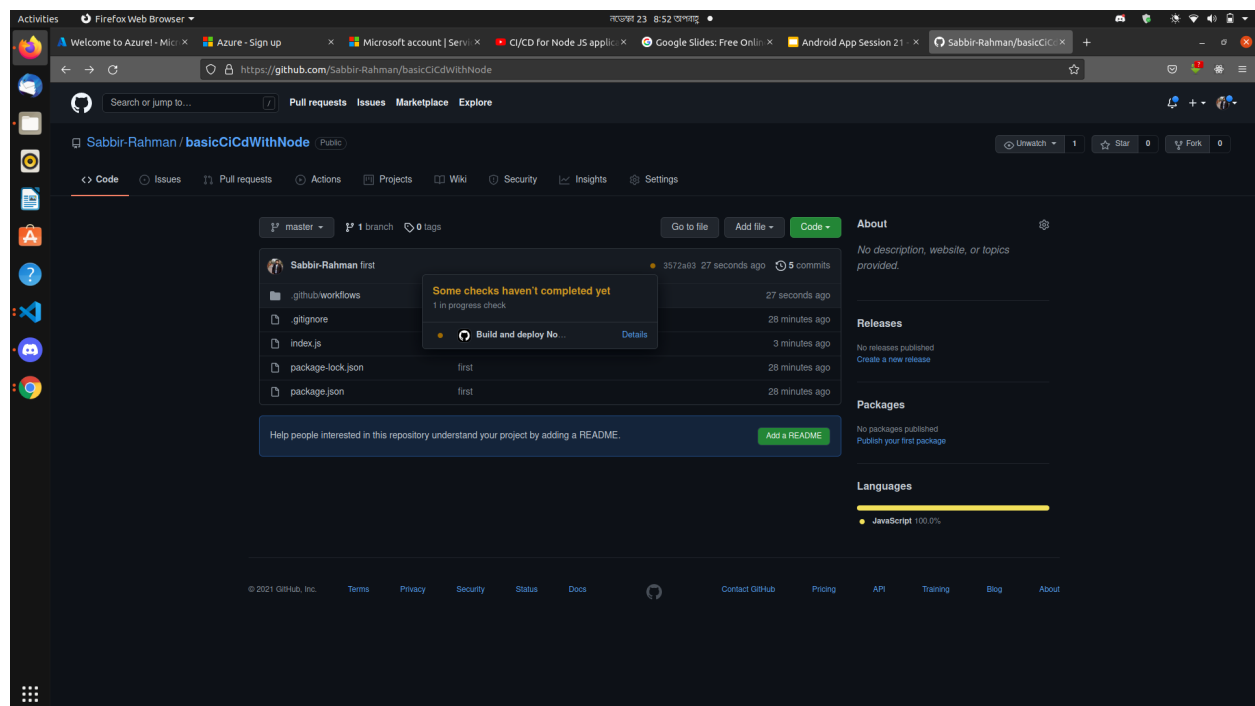
Now go to the .yml file under github folder as we don't write any test and we don't need any build delete npm run build and npm run test from the yml file.



```
name: Build and deploy Node.js app to Azure Web App - sampleCicd
on:
  push:
    branches:
      - master
  workflow_dispatch:
jobs:
  build:
    runs-on: ubuntu-latest
    steps:
      - uses: actions/checkout@v2
      - name: Set up Node.js version
        uses: actions/setup-node@v1
        with:
          node-version: '14.x'
      - name: npm install, build, and test
        run: |
          npm install
          npm run build --if-present
          npm run test --if-present
      - name: Upload artifact for deployment job
        uses: actions/upload-artifact@v2
        with:
          name: node-app
          path: .
```

create node 100644 .github/workflows/master_sampleCicd.yml
sabbir@msi-GF63-Thin-95C:~/data/node_express_projects/sample_ci_cd_azure\$ git add .
sabbir@msi-GF63-Thin-95C:~/data/node_express_projects/sample_ci_cd_azure\$ git commit -m "first"
On branch master
nothing to commit, working tree clean
sabbir@msi-GF63-Thin-95C:~/data/node_express_projects/sample_ci_cd_azure\$ git push origin master
Enumerating objects: 5, done.
Counting objects: 100% (8/8), done.
Delta compression using up to 12 threads
Compressing objects: 100% (5/5), done.
Writing objects: 100% (5/5), 590 bytes | 590.00 KiB/s, done.
Total 5 (delta 3), reused 0 (delta 0)
remote: Resolving deltas: 100% (3/3), completed with 2 local objects.
To https://github.com/Sabbir-Rahman/basicCicdWithNode
bed4db..608c204 master -> master
sabbir@msi-GF63-Thin-95C:~/data/node_express_projects/sample_ci_cd_azure\$

Then change some response in the app.js and commit new changes to the deployment branch here it is master.



If everything ok after push you will see some check is running on your github repository. You can observe the check if you want

Activities Firefox Web Browser

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https://github.com/Sabbir-Rahman/basicCICdWithNode/runs/4300759015?check_suite_focus=true

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first Build and deploy Node.js app to Azure Web App - sampleCICd #3 Cancel workflow ...

Summary

Jobs

build

build Started 27s ago

Set up job 3s

Run actions/checkout@v2 2s

Set up Node.js version 3s

npm install, build, and test 3s

Upload artifact for deployment job 16s

Total size of all the files uploaded is 625257 bytes
Finished uploading artifact node-app. Reported size is 625257 bytes. There were 0 items that failed to upload
Artifact node-app has been successfully uploaded!

Post Run actions/checkout@v2 1s

```
1 Post job cleanup.
2 /usr/bin/git version
3 git version 2.33.1
4 /usr/bin/git config --local --name-only --get-regexp core.sshCommand
5 /usr/bin/git submodule foreach --recursive git config --local --name-only --get-regexp 'core.sshCommand' || :
6 /usr/bin/git config --local --name-only --get-regexp http.https://github.com/.extraheader
7 http.https://github.com/.extraheader
8 /usr/bin/git config --local --unset-all http.https://github.com/.extraheader
9 /usr/bin/git submodule foreach --recursive git config --local --name-only --get-regexp 'http.https://github.com/.extraheader' && git config --local --unset-all 'http.https://github.com/.extraheader' || :
```

Activities Firefox Web Browser

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https://github.com/Sabbir-Rahman/basicCICdWithNode/runs/4300766758?check_suite_focus=true

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first Build and deploy Node.js app to Azure Web App - sampleCICd #3 Cancel workflow ...

Summary

Jobs

build

deploy

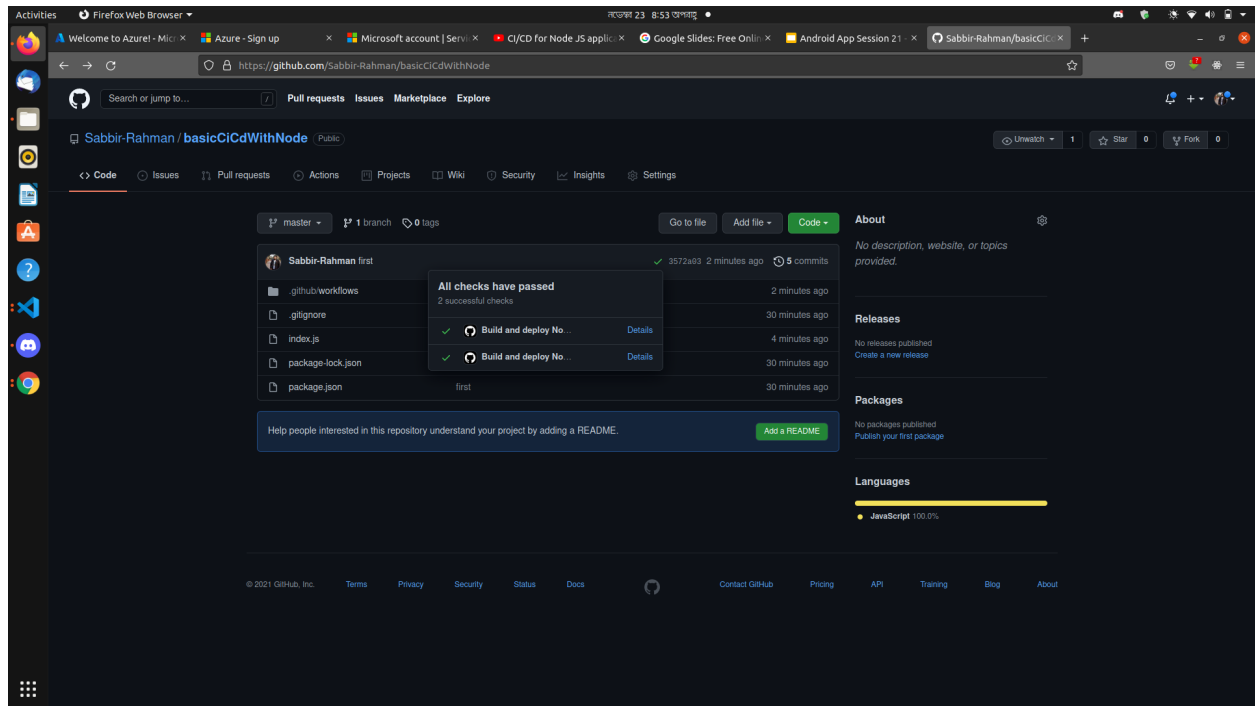
deploy Started 13s ago

Set up job 5s

Download artifact from build job 8s

Deploy to Azure Web App

After all jobs complete you will see green signal.



Now if you check your deployed url you can see your code changes is automatically deployed in the azure url. Here I change my welcome response to welcome azure

