## How to create a CI/CD for an Express JS website in Azure

- 1. Create an Express JS Website in your local machine.
- a. install expressjs generator

```
npm install -g express-generator
```

b. create a express generator website

```
//create an empty directory and cd into the that directory

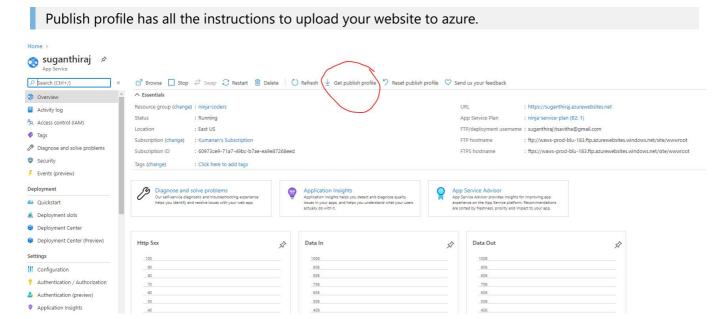
mkdir express-labs

cd express-labs

// create express js website with no view engine.

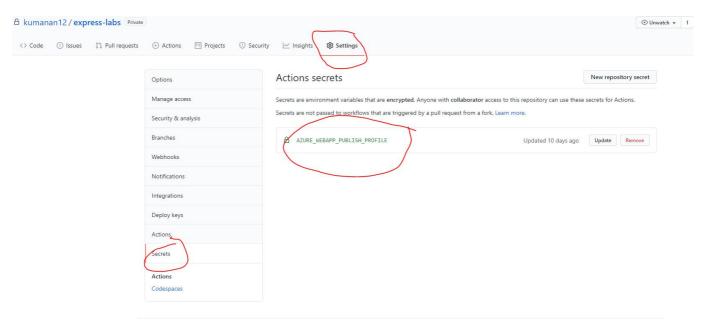
express --no-view
//
```

- 2. Push the expressjs website into github repository
- 3. Get the publish profile from your azure website.
- a. Azure publish profile will have an extension .*PublishSettings*

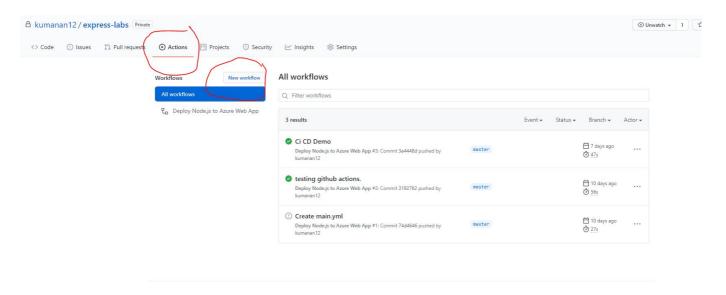


4. Create a secret variable in your project in github.com

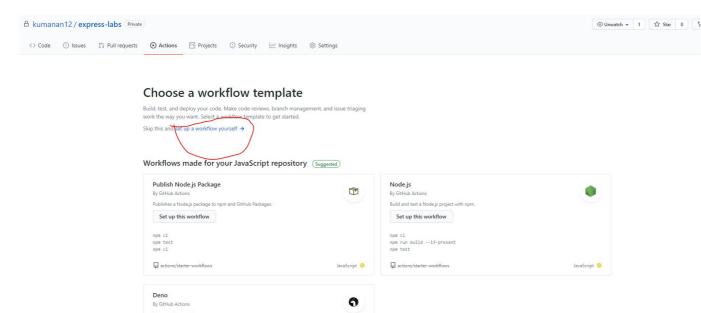
- a. The name of the secret variable should be AZURE\_WEBAPP\_PUBLISH\_PROFILE
- b. copy the contents of the publish settings that you downloaded in the previous step and paste in the value field of the github secret



## 5. Create a new Github action



Create a new workflow



```
name: Deploy Node.js to Azure Web App
on:
  [push]
# CONFIGURATION
# For help, go to https://github.com/Azure/Actions
# 1. Set up the following secrets in your repository:
   AZURE_WEBAPP_PUBLISH_PROFILE
#
# 2. Change these variables for your configuration:
 AZURE_WEBAPP_NAME: jslabs # set this to your application's name
 AZURE_WEBAPP_PACKAGE_PATH: '.'
                                     # set this to the path to your web app
project, defaults to the repository root
 NODE_VERSION: '12.x'
                                      # set this to the node version to use
jobs:
 build-and-deploy:
    name: Build and Deploy
    runs-on: ubuntu-latest
   steps:
    - uses: actions/checkout@master
    - name: Use Node.js ${{ env.NODE_VERSION }}
      uses: actions/setup-node@v1
      with:
        node-version: ${{ env.NODE_VERSION }}
    - name: npm install, build, and test
      run:
        # Build and test the project, then
        # deploy to Azure Web App.
        npm install
        npm run build --if-present
        npm run test --if-present
```

```
- name: 'Deploy to Azure WebApp'
    uses: azure/webapps-deploy@v2
    with:
        app-name: ${{ env.AZURE_WEBAPP_NAME }}
        publish-profile: ${{ secrets.AZURE_WEBAPP_PUBLISH_PROFILE }}
        package: ${{ env.AZURE_WEBAPP_PACKAGE_PATH }}

# For more information on GitHub Actions for Azure, refer to https://github.com/Azure/Actions
    # For more samples to get started with GitHub Action workflows to deploy to Azure, refer to https://github.com/Azure/actions-workflow-samples```
```