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Deployment

Angular

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Deployment

(Host your application)

Deployment

- Deployment is an activity that makes a software system or application available for use.
- There are so many hosting website which allow you to host your website using their platform.
- Examples are,
    - **GitHub**
    - **Heroku**
    - **Firebase, etc.**
- In this module, we are going to learn how you can deploy the project using above mentioned platforms.

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Firebase Deployment

(Host your application in Firebase)

Firebase Deployment

- Follow the following steps to host your application in firebase:

Step 1: Add your firebase project configuration in the environments.prod.ts file.

Step 2: In your project folder execute the following commands:

a. npm install -g firebase-tools (For installing firebase CLI)

b. firebase login (And provide user-name, password)

Step 3: Run the following command to build your project

a. ng build --prod (Create a build)

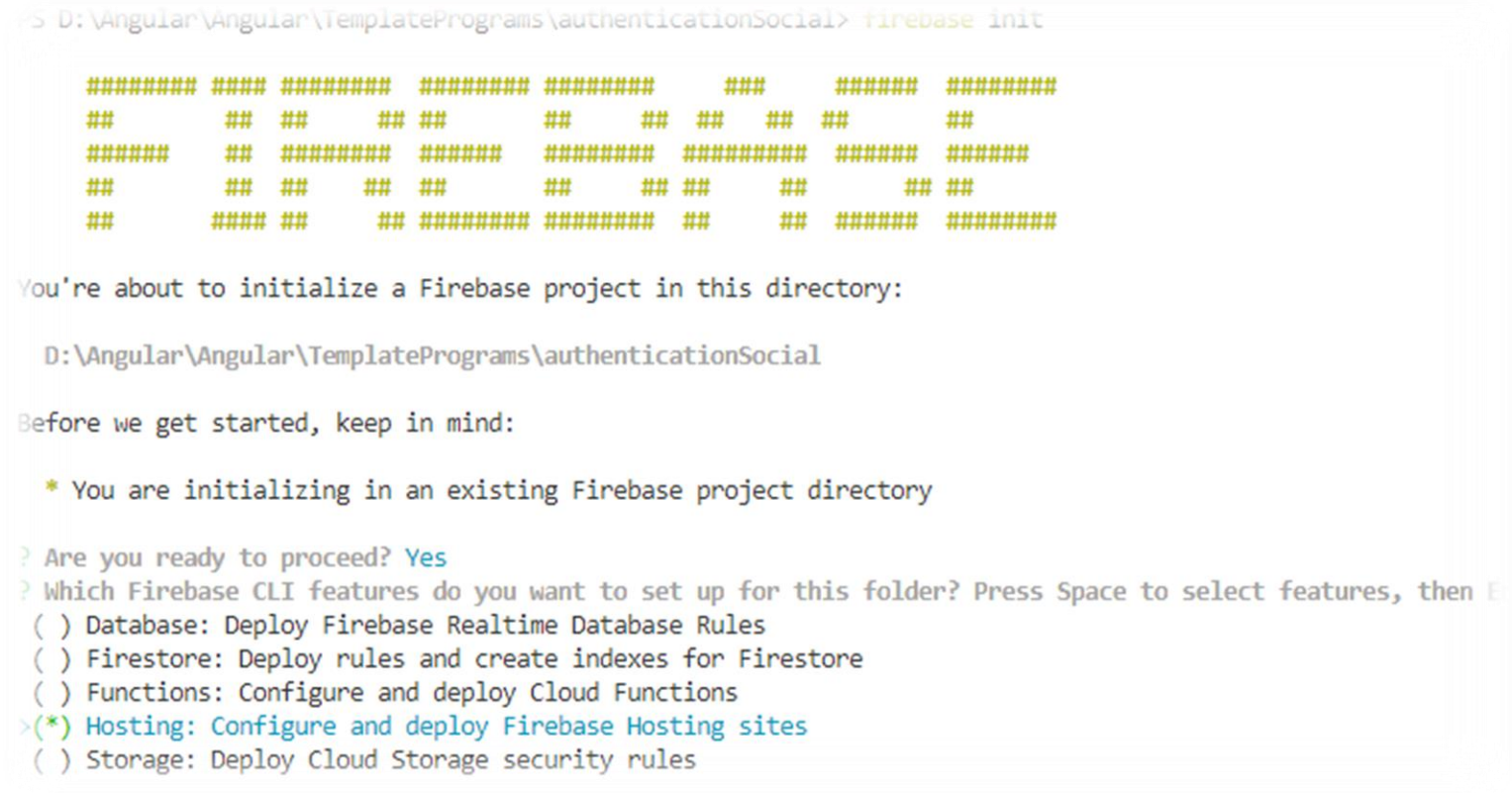
b. Once build is successful, Angular will give you a dist folder where you can find your built project folder.

Firebase Deployment

- Follow the following steps to host your application in firebase:

Step 4: Type the next command in your angular project CLI:

firebase init : Select Hosting option with spacebar and press enter



Firebase Deployment

- **Chose the firebase project which you are going to use for hosting your application in firebase**

Step 5: **Type your dist/project name for the next step**

Step 6: **Say yes for the next question**

Step 7: **At last deploy your project to firebase by running the following command in your project:**

```
firebase deploy
```

- Note down the URL of your project generated by the firebase, which you can share it to others for use.

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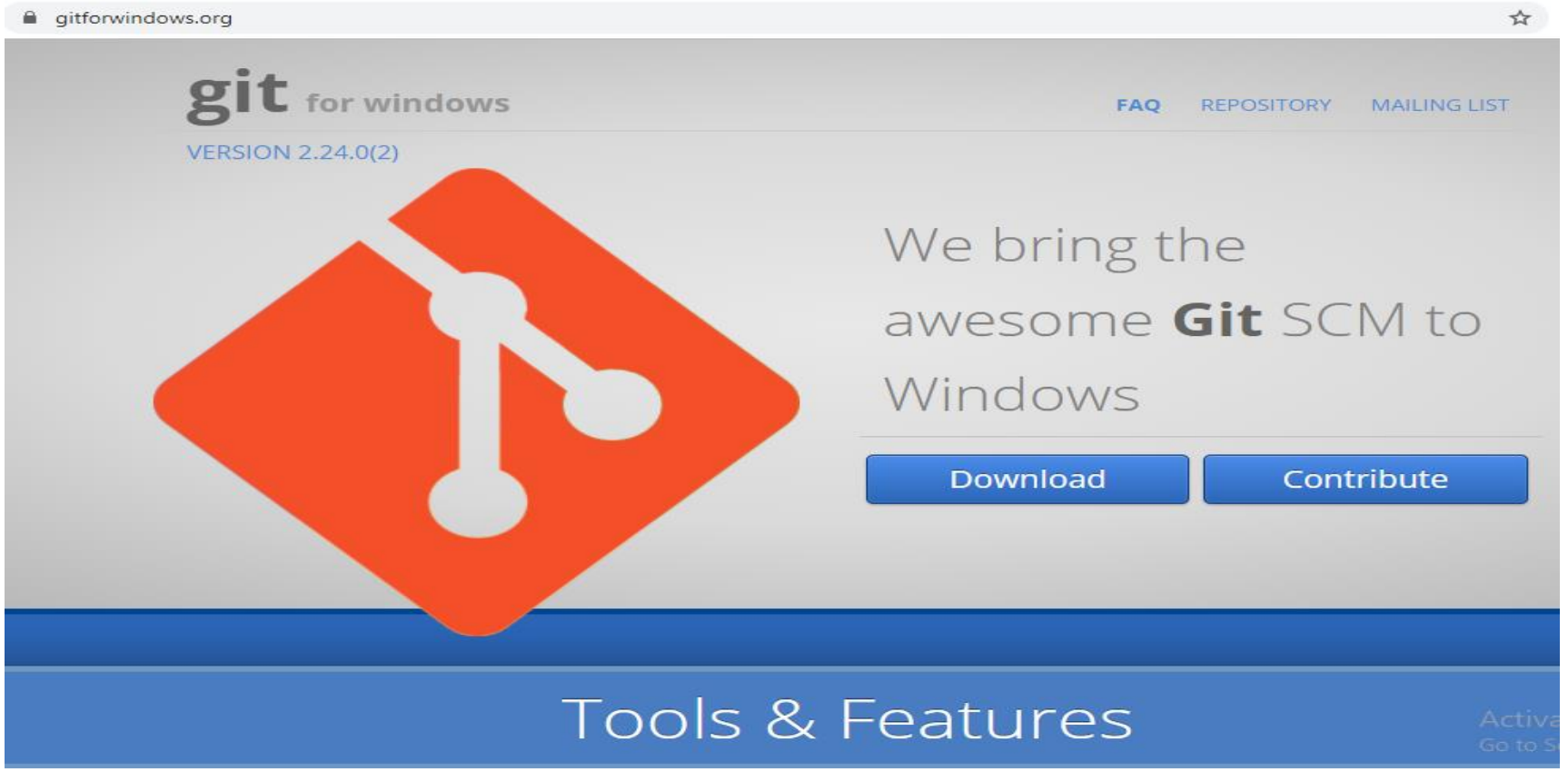
GitHub Deployment

(Host your application in GitHub)

GitHub Deployment

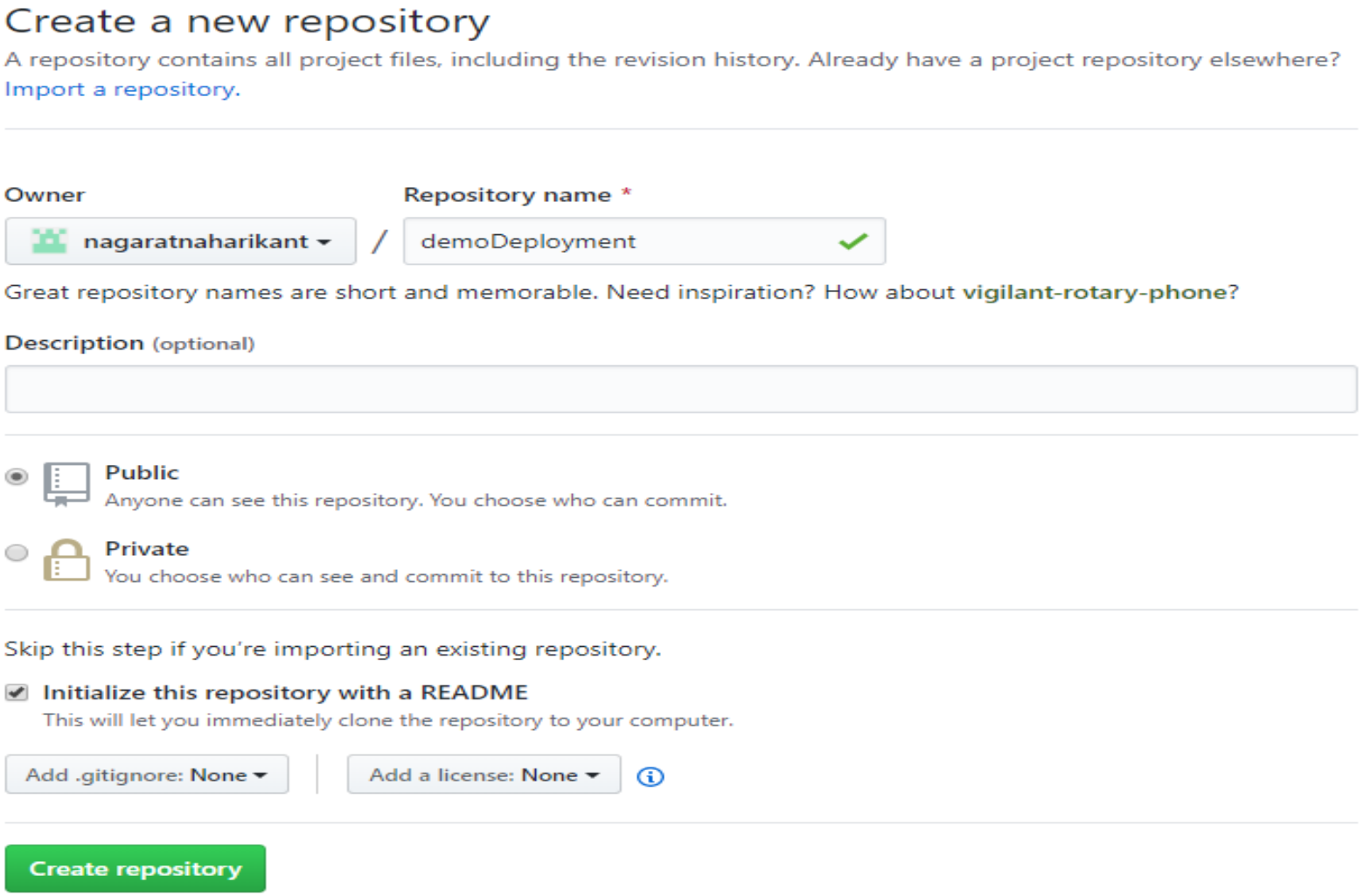
- **GitHub** is a code hosting platform for version control and collaboration. It lets you and others **work** together on projects from anywhere.

- Install the github in your system. Visit http://www.gitforwindows.org to download.



GitHub Deployment

- Once github is installed in your system, login to github and create a repository to deploy your project.



GitHub Deployment

Follow the following step to deploy the project:

- 1. **git init**
- //Copy url of the repository and run following command

  2. **git remote add origin "Repository URL"**

  //For first time it will ask for the username and password

  //Provide GIT username & password
- //Install github pages to deploy the project

  3. **npm i -g angular-cli-ghpages**
- //Build the project by following command

  4. **ng build --prod --base-href https://usernameofgit.github.io/repositoryname/**
- // Deploy the project in github

  5. **ngh --dir dist/folder-name --no-silent**

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Heroku Deployment

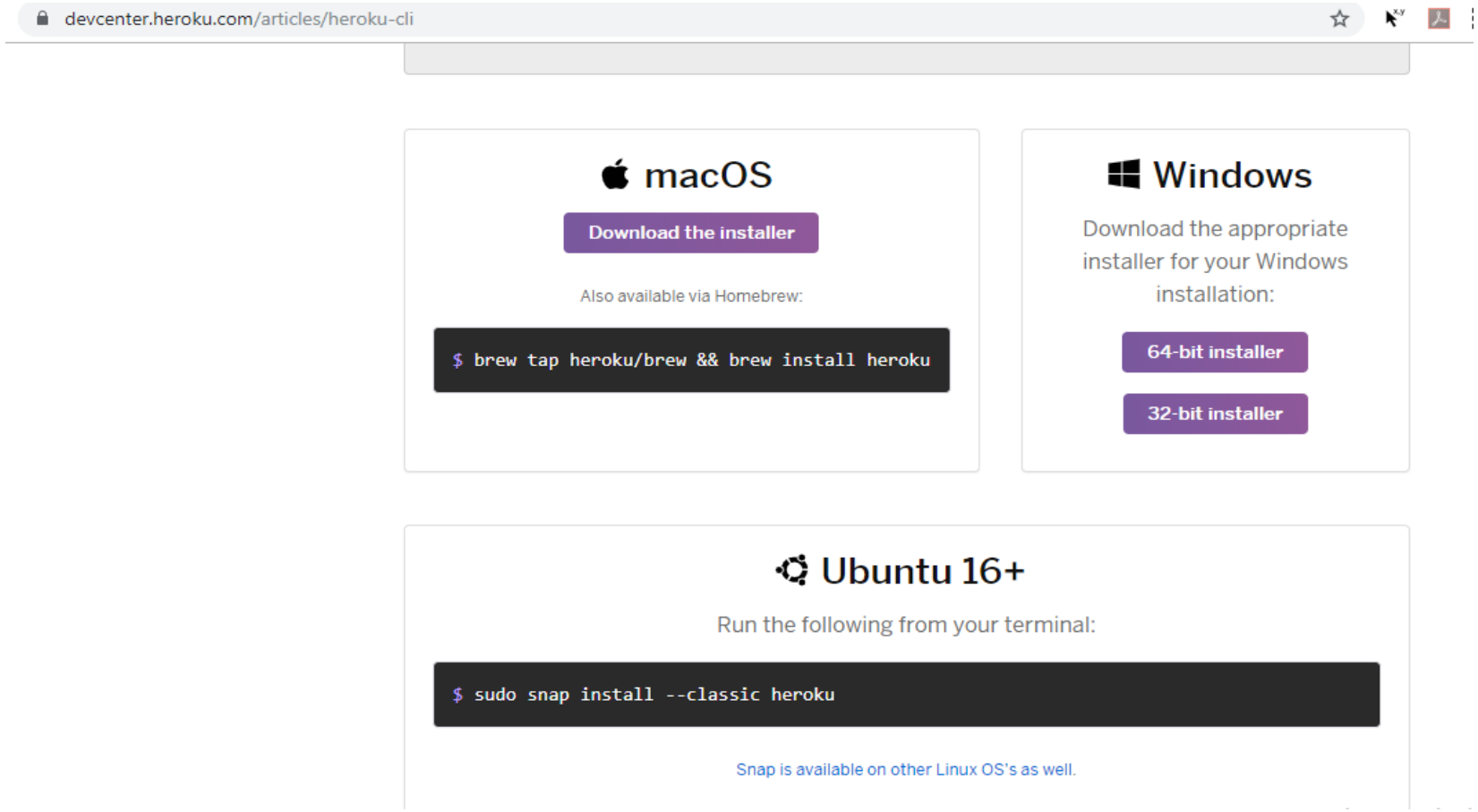
(Host your application in Heroku)

Heroku Deployment

Follow the following step to deploy the project in Heroku:

1. Goto heroku.com and create an account (Email & Password)

2. Install the heroku depending on which OS you are using as shown below



Heroku Deployment

Follow the following step to deploy the project in Heroku:

3. heroku --version (Check if the tool is installed properly)

4. heroku login (Provide your login credentials)

5. heroku create (It will automatically a project name). Check the URL.

6. In the package.json make the following changes:

   a. Move @angular/compiler-cli, @angular/cli and typscript into Dependencies (From DevDependencies)

   b. Under the scripts section add

      "postinstall": "ng build --prod"

      "start": "node server.js"

Heroku Deployment

Follow the following step to deploy the project in Heroku:

7. Create a file in your main project project with – server.js and paste the following in the file:

```
const express = require('express');
const app = express();

app.use(express.static(__dirname + '/dist/project-name'));

app.all('*', (req, res) => {
  res.status(200).sendFile(__dirname + '/dist/project-name/index.html');
});

app.listen(process.env.PORT || 8080);
```

Heroku Deployment

Follow the following step to deploy the project in Heroku:

8. Install Express (npm install express --save)

9. git add .

10. git commit -m "Some comment"

11. git remote

12. git push heroku master

13. Once the deployment is complete heroku will give you an URL which is your official project Host URL.

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