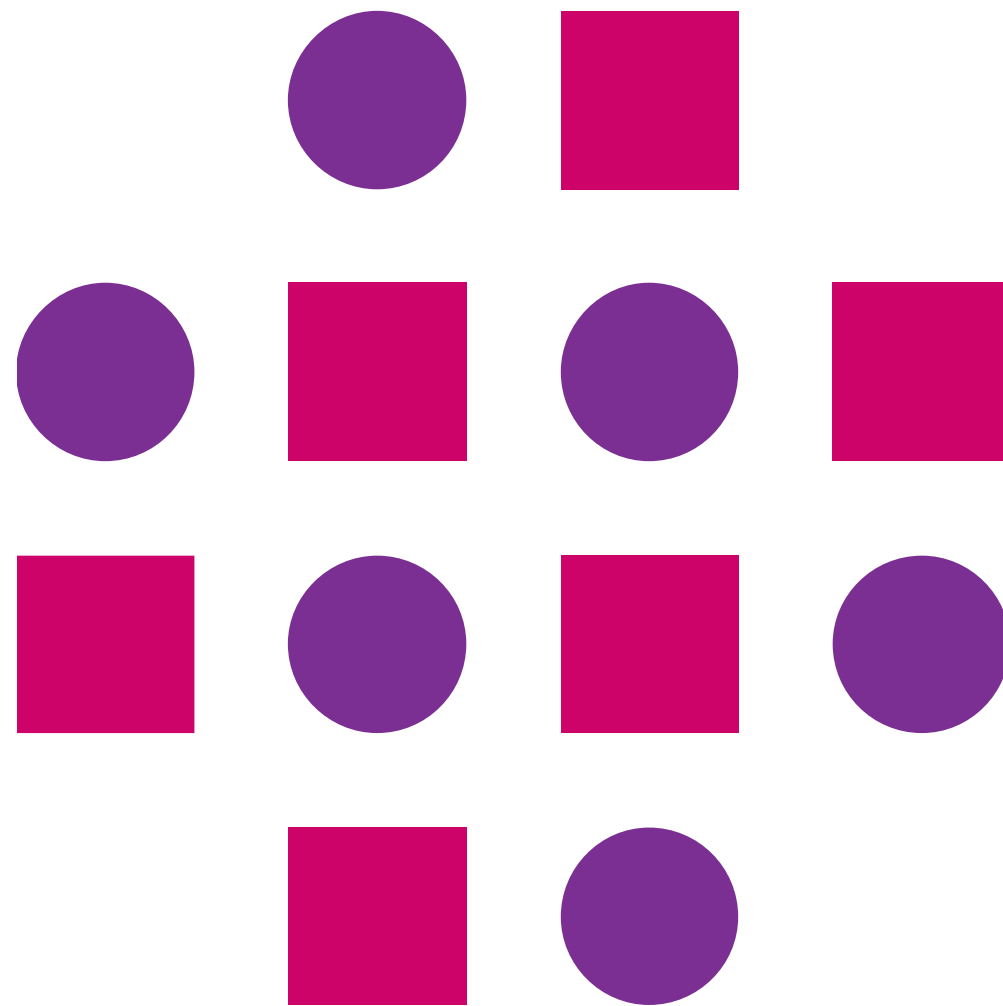


Deployment

Angular



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.

Firestore Deployment

(Host your application in Firestore)

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

```
D:\Angular\Angular\TemplatePrograms\authenticationSocial> firebase init

##### 
##      ##      ##      ##      ##      ##      ##      ##      ##      ##      ##
#####  ##  #####  #####  #####  #####  #####  #####
##      ##      ##      ##      ##      ##      ##      ##      ##      ##
##      #####  #####  #####  ##      ##      ##      ##      ##
#####  ##      ##      ##      ##      ##      ##      ##      ##      ##

You're about to initialize a Firebase project in this directory:

  D:\Angular\Angular\TemplatePrograms\authenticationSocial

Before we get started, keep in mind:

  * You are initializing in an existing Firebase project directory

? Are you ready to proceed? Yes
? Which Firebase CLI features do you want to set up for this folder? Press Space to select features, then Enter to confirm
  ( ) Database: Deploy Firebase Realtime Database Rules
  ( ) Firestore: Deploy rules and create indexes for Firestore
  ( ) Functions: Configure and deploy Cloud Functions
> (*) Hosting: Configure and deploy Firebase Hosting sites
  ( ) Storage: Deploy Cloud Storage security rules
```

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

```
? What do you want to use as your public directory? dist/your-projectname
```

Step 6: Say yes for the next question

```
? Configure as a single-page app (rewrite all urls to /index.html)? (y/N) y
```

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

```
firebase deploy
```

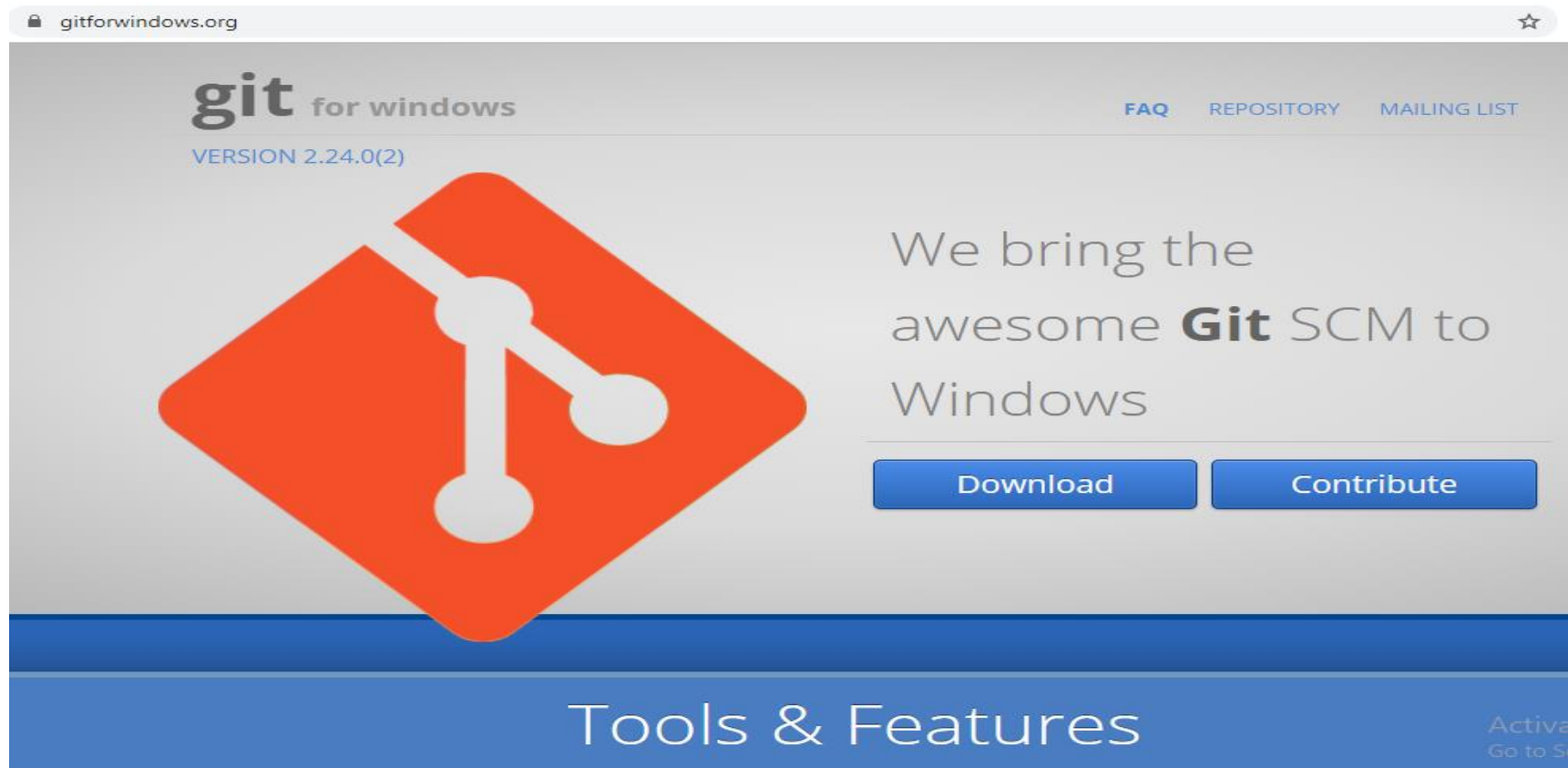
- Note down the URL of your project generated by the firebase, which you can share it to others for use.

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.

Create a new repository

A repository contains all project files, including the revision history. Already have a project repository elsewhere?
[Import a repository.](#)

Owner

 nagaratnahaikant ▾

Repository name *

/ demoDeployment ✓

Great repository names are short and memorable. Need inspiration? How about **vigilant-rotary-phone**?

Description (optional)



Public

Anyone can see this repository. You choose who can commit.



Private

You choose who can see and commit to this repository.

Skip this step if you're importing an existing repository.



Initialize this repository with a README

This will let you immediately clone the repository to your computer.

Add .gitignore: None ▾

Add a license: None ▾



Create repository

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. **ng build --dir dist/folder-name --no-silent**



WSA

Forward looking IT finishing school

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

The screenshot shows the Heroku Dev Center page for installing the Heroku CLI. The browser address bar displays `devcenter.heroku.com/articles/heroku-cli`. The page is divided into three main sections for different operating systems:

- macOS:** Features an Apple logo and the text "macOS". A purple button labeled "Download the installer" is present. Below it, a note states "Also available via Homebrew:". A dark terminal window contains the command: `$ brew tap heroku/brew && brew install heroku`.
- Windows:** Features a Windows logo and the text "Windows". It instructs users to "Download the appropriate installer for your Windows installation:". Below this are two purple buttons: "64-bit installer" and "32-bit installer".
- Ubuntu 16+:** Features a Ubuntu logo and the text "Ubuntu 16+". It instructs users to "Run the following from your terminal:". A dark terminal window contains the command: `$ sudo snap install --classic heroku`. A note at the bottom states "Snap is available on other Linux OS's as well."

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 `typescript` 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.

*Thank
you*

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