

# DEPLOYMENT OF ANGULAR APP USING GCP

For the deployment of Angular Project, GOOGLE CLOUD CLI must have downloaded to the system.

Use this Link,

<https://cloud.google.com/sdk/docs/install>

## Steps for Deployment:

1. Build Angular project named *Angular*
  - The folder is named *Angular*. This is the project root directory.
2. Go to Angular app directory, using a terminal  
`cd Angular`

3. Start the server, using the following command  
`ng serve`

This command will compile and builds all files and then starts the server.

4. To access the app, open a web browser and enter a URL  
`http://localhost:4200`

**Note:** Node.js server runs on port 4200, by default.

```
✓ Browser application bundle generation complete.

Initial Chunk Files | Names          | Raw Size
vendor.js           | vendor         | 2.39 MB |
polyfills.js        | polyfills      | 315.32 kB |
main.js             | main           | 207.72 kB |
styles.css, styles.js | styles         | 207.35 kB |
runtime.js          | runtime        | 6.52 kB |
                    | Initial Total  | 3.11 MB

Build at: 2022-08-21T17:20:35.199Z - Hash: 1c3f603de58085bf - Time: 77087ms

** Angular Live Development Server is listening on localhost:4200, open your browser on http://localhost:4200/ **

✓ Compiled successfully.
```

5. To shutdown the server, press keyboard `Ctrl+c`
6. Now, go to google chrome type google cloud sdk and SignIn with the credentials.
  - Go to console button which in on top right corner.
  - Create a new project.
  - Create a Vm instance

Google Cloud

greatlear-1661147658924

Search

Products, resources, docs (/)

2

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Create an instance

HELP ASSISTANT

To create a VM instance, select one of the options:

New VM instance

Create a single VM instance from scratch

New VM instance from template

Create a single VM instance from an existing template

New VM instance from machine image

Create a single VM instance from an existing machine image

Marketplace

Deploy a ready-to-go solution onto a VM instance

Name \*

shopforhome-instance

Labels

+ ADD LABELS

Region \*

us-west2 (Los Angeles)

Zone \*

us-west2-a

Machine configuration

Machine family

GENERAL-PURPOSE COMPUTE-OPTIMIZED MEMORY-OPTIMIZED GPU

Machine types for common workloads, optimized for cost and flexibility

Series

E2

CPU platform selection based on availability

Monthly estimate

\$30.58

That's about \$0.04 hourly

Pay for what you use. No upfront costs and per second billing

Item	Monthly estimate
2 vCPU + 4 GB memory	\$29.38
10 GB balanced persistent disk	\$1.20
Sustained use discount	-\$0.00
Total	\$30.58

[Compute Engine pricing](#)

^ LESS

## 7. Boot Disk

### Boot disk

Select an image or snapshot to create a boot disk; or attach an existing disk. Can't find what you're looking for? Explore hundreds of VM solutions in [Marketplace](#)

PUBLIC IMAGES

CUSTOM IMAGES

SNAPSHOTS

EXISTING DISKS

Operating system

Red Hat Enterprise Linux

Version \*

Red Hat Enterprise Linux 7

x86/64, x86\_64 built on 20220822, supports Shielded VM features

Boot disk type \*

Balanced persistent disk

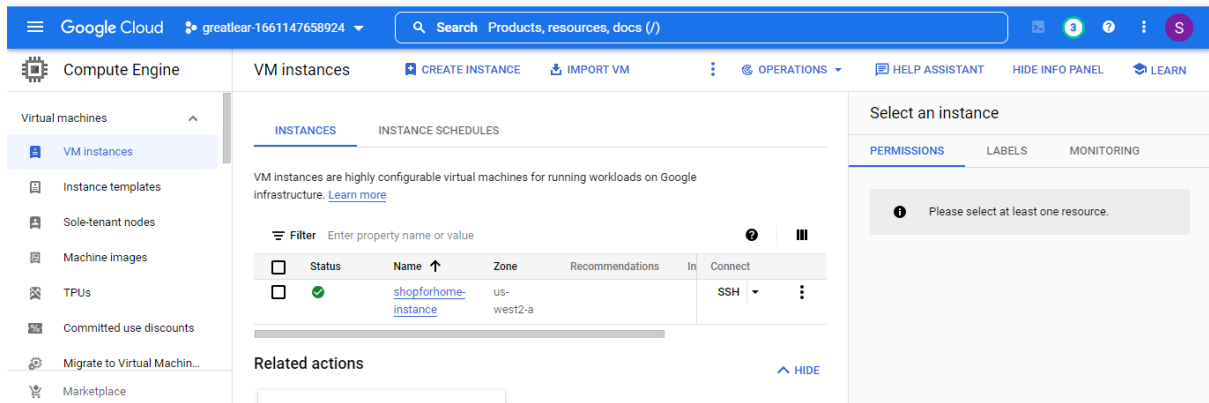
Size (GB) \*

20

SHOW ADVANCED CONFIGURATION

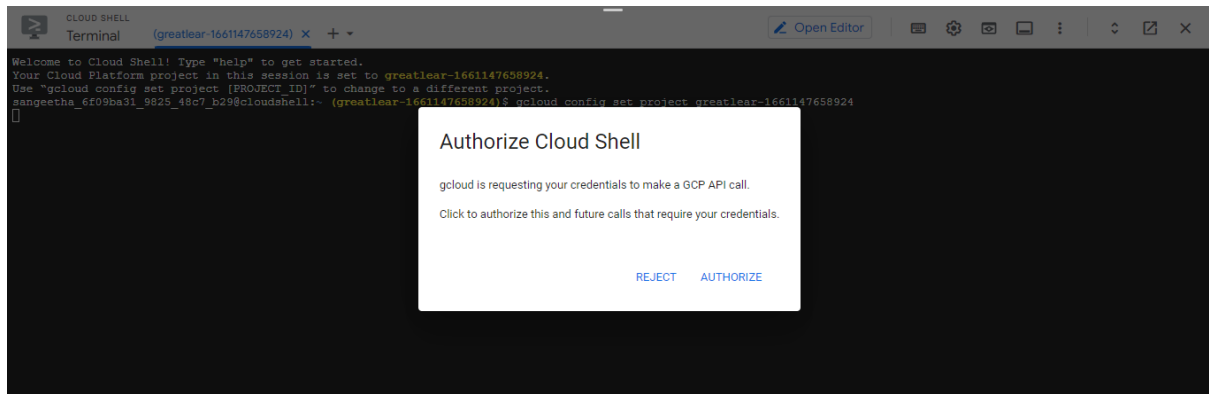
SELECT

CANCEL

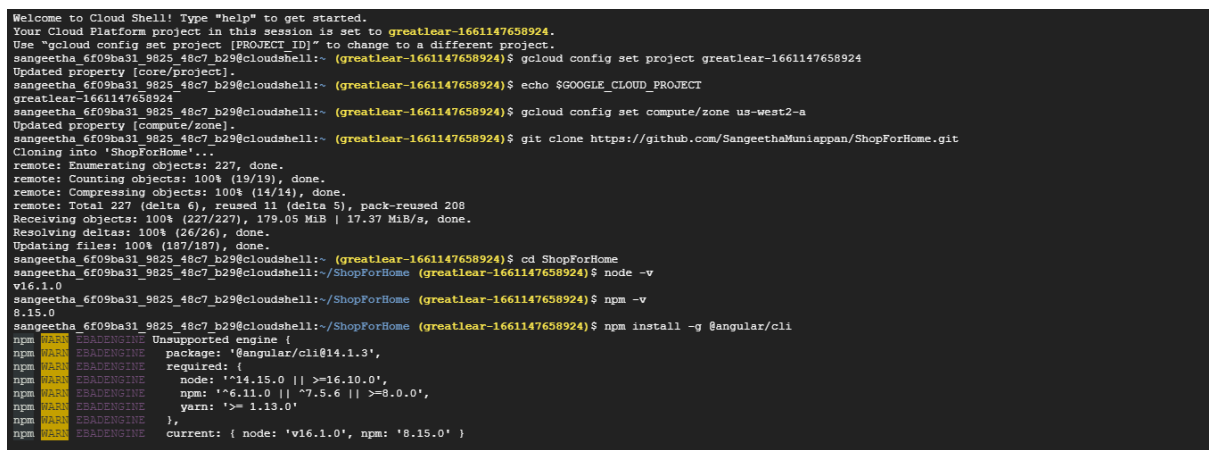


## 8. Open the Google Cloud Interactive Shell

It may take a few seconds to activate the Cloud Shell.



## 9. Once you are connected to the Cloud Shell, set the project and clone the project from git repository



## 10. Install npm

```
npm WARN EBADENGINE   npm: '^6.11.0 || ^7.5.6 || >=8.0.0',
npm WARN EBADENGINE   yarn: '>= 1.13.0'
npm WARN EBADENGINE },
npm WARN EBADENGINE   current: { node: 'v16.1.0', npm: '8.15.0' }
npm WARN EBADENGINE }
npm WARN EBADENGINE Unsupported engine {
npm WARN EBADENGINE   package: '@schematics/angular@14.1.3',
npm WARN EBADENGINE   required: {
npm WARN EBADENGINE     node: '^14.15.0 || >=16.10.0',
npm WARN EBADENGINE     npm: '^6.11.0 || ^7.5.6 || >=8.0.0',
npm WARN EBADENGINE     yarn: '>= 1.13.0'
npm WARN EBADENGINE   },
npm WARN EBADENGINE   current: { node: 'v16.1.0', npm: '8.15.0' }
npm WARN EBADENGINE }

added 206 packages, and audited 207 packages in 21s

25 packages are looking for funding
  run `npm fund` for details

found 0 vulnerabilities
npm notice New minor version of npm available! 8.15.0 -> 8.18.0
npm notice Changelog: https://github.com/npm/cli/releases/tag/v8.18.0
npm notice Run `npm install -g npm@8.18.0` to update!
npm notice
sangeetha_6f09ba31_9825_48c7_b29@cloudshell:~/ShopForHome (greatlear-1661147658924)$ npm install -g typescript

added 1 package, and audited 2 packages in 2s

found 0 vulnerabilities
sangeetha_6f09ba31_9825_48c7_b29@cloudshell:~/ShopForHome (greatlear-1661147658924)$
```

## 11. To compile use the following command, ng serve

```
To address all issues, run:
  npm audit fix

Run 'npm audit' for details.
sangeetha_6f09ba31_9825_48c7_b29@cloudshell:~/ShopForHome (greatlear-1661147658924)$ ng serve
Your global Angular CLI version (14.1.3) is greater than your local version (14.0.2). The local Angular CLI version is used.

To disable this warning use "ng config -g cli.warnings.versionMismatch false".
? Would you like to enable autocompletion? This will set up your terminal so pressing TAB while typing Angular CLI commands will show possible options and autocomplete arguments. (Enabling autocompletion will modify configuration files in your home directory.) Yes
Appended 'source <(ng completion script)>' to '/home/sangeetha_6f09ba31_9825_48c7_b29/.bashrc'. Restart your terminal or run the following to autocomplete 'ng' commands:

    source <(ng completion script)
✓ Browser application bundle generation complete.

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                    | Initial Total | 3.10 MB

Build at: 2022-08-23T14:47:13.037Z - Hash: 93aa635ec429808e - Time: 31875ms

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✓ Compiled successfully.

```

12. Now, got url on terminal and paste it on google chrome and the project is live on Google Cloud Platform

