**Creating a Build**

As mentioned, we need to use the Angular CLI to create a build of our app. Hop into the console within the project folder and run the following command:

$ ng build

This will take 5-20 seconds to run. The end result is a new folder called */dist* within the project root folder.

I ran this command on the project we've been creating, and these are the actual sizes of the files produced:

5.83 kB

22.8 kB

200 kB

12.1 kB

3.26 MB

Wow, our app is nearly **3.5mb**! That would take forever to load. It's really large because we didn't specify the *--prod* flag, which is short for production.

Run this command in the console:

$ ng build --prod

These are the new file sizes:

1 kB

2 kB

355 kB

60 kB

1 kB

Yep, nearly a 90% reduction in file size. This is because the *--prod* flag enables a number of optimizations that drastically reduces the size of the project.

You need to ensure that you add this flag whenever you're deploying your Angular 5 app.

**Deploying your Angular 5 App**

At this point, if your app does not rely on any type of backend server (as in our case), you have a number of options.

You could take the files in the */dist* folder and upload them to a server. Just note, if you're uploading them to a sub folder, you will need to run the following build command:

$ ng build --prod --base-href="myURL"

The *--base-href* flag will allow you to designate the correct URL for the app to load.

You could also use a nifty node package to deploy your app to github pages.

**Deploying to Github Pages**

If you don't have an account at [**Github**](http://github.com/), go ahead and create one.

Then, create a new repository for your project.

Next, in the console, run the following command:

$ npm i -g angular-cli-ghpages

This will install a CLI tool globally.

You will also need Git, you can [**download it here**](https://git-scm.com/downloads).

Because we're going to push our Angular 5 project to a subfolder via Github pages, we need to rebuild it with the *--base-href* flag:

$ ng build --prod --base-href="[**https://YOURUSERNAME.github.io/REPO-NAME/**](https://yourusername.github.io/REPO-NAME/)"

Next, run these commands to setup our project folder push to the new repo:

$ git add .

$ git commit -m "first commit"

$ git remote add origin git@github.com:yourinfo/yourgit.git

$ git push -u origin master

Then, finally, we can use the Github-pages CLI to push our project to github-pages:

$ angular-cli-ghpages

If all goes well, it will respond with *Successfully Published!*

You can now visit the [***YOURUSERNAME.github.io/REPO-NAME/***](http://yourusername.github.io/REPO-NAME/) address and the app should load.

**Other Deployment Options**

You may be interested in deploying your Angular 5 app to Heroku, Azure, AWS, etc..

Check out these resources if this is the case:

* [**Deploying to Heroku**](https://medium.com/@ervib/deploy-angular-4-app-with-express-to-heroku-6113146915ca)
* [**Deploying to Azure**](https://johnpapa.net/deploy-angular-to-azure-vsts-angular-cli/)
* [**Deploying to AWS**](https://www.johnlouros.com/blog/uploading-a-angular-app-to-S3-with-npm)

**Conclusion**

I hope you found this tutorial useful, and this marks the very end of the course!

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