

# Angular-8

## Compiling Angular APP

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# Compiling Angular App

- Then **ng serve** command builds and serves the application from memory for faster development experience.
- **ng serve** command does not write the build files to the disk, so we cannot use it for deploying our application on a different server.
- For example , if we want to deploy our application in servers like tomcat then **ng serve** command will not satisfy our requirement
- To build the application in production environment we should use **ng build** command

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- When we execute **ng build** command it creates a folder with name “ **dist** ” and copies all the build files into that folder. Now the question that comes to our mind is, why is the folder named “ **dist** ”. The folder is named “ **dist** ” because that is what is specified as the output directory for the build in the Angular CLI configuration file. Notice the “ **outputPath** ” property is set to “ **dist** ”.
- By default the ng build command does a development build, not a production build. The development build is not optimized for production use. The development build is typically used for testing. With a development build it is easier to debug as the development build contains source map files.
- If you want to deploy the application to a server, copy the contents of the "dist" folder to a folder on the server

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- The bundle files generated by the development build are not optimized, meaning the bundles are not minified or treeshaked to remove the code that is not being used.
- A production build on the other hand will have all the performance optimization techniques like Ahead-of-time (AOT) compilation, minification, uglification and tree shaking implemented.  
So the sizes of the bundles that the production build produces will be significantly less than the sizes of the bundles that a dev build produces.
- To do a production build use **--prod** option with the ng build command

**ng build --prod**

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- Notice the file sizes in the production build are significantly less than the file sizes in the development build.
- With the production build, by default, we do not get the source map files because we usually do not need them on a production server.
- Also notice, Production build extracts css from global styles into a css file instead of js ones.

# ng serve vs ng build

## ng serve

- Compiles and serves the application from memory
- Does not write the build files to the disk
- Typically used to run the application on local development machine
- Cannot be used for deploying the build to another server (Ex. Testing, Staging or Production server)

## ng build

- Compiles the application to the "dist" folder
- Can be used to produce both development & production builds
- Typically used to deploy the application on another server



Thank You

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