Skip to main content

Setting up the local environment and workspace

This guide explains how to set up your environment for Angular development using the **Angular CLI tool**. It includes information about prerequisites, installing the CLI, creating an initial workspace and starter app, and running that app locally to verify your setup.

TRY ANGULAR WITHOUT LOCAL SETUP

If you are new to Angular, you might want to start with **Try it now!**, which introduces the essentials of Angular in the context of a ready-made basic online store app for you to examine and modify. This standalone tutorial takes advantage of the interactive **StackBlitz** are environment for online development. You don't need to set up your local environment until you're ready.

Prerequisites

To use the Angular framework, you should be familiar with the following:

- JavaScript
- HTML [2]
- CSS [7]

Knowledge of TypeScript
☐ is helpful, but not required.

To install Angular on your local system, you need the following:

Skip to main content

DETAILS

Node.js

Angular requires an active LTS or maintenance LTS ☑ version of Node.js.

For information about specific version requirements, see the engines key in the package.json I file.

For more information on installing Node.js, see nodejs.org 2. If you are unsure what version of Node.js runs on your system, run node -v in a terminal window.

npm package manager Angular, the Angular CLI, and Angular applications depend on npm packages ☑ for many features and functions. To download and install npm packages, you need an npm package manager. This guide uses the npm client ☑ command line interface, which is installed with Node.js by default. To check that you have the npm client installed, run npm -v in a terminal window.

Install the Angular CLI

You can use the Angular CLI to create projects, generate application and library code, and perform a variety of ongoing development tasks such as testing, bundling, and deployment.

To install the Angular CLI, open a terminal window and run the following command:

Skip to main content @angular/cli

On Windows client computers, the execution of PowerShell scripts is disabled by default. To allow the execution of PowerShell scripts, which is needed for npm global binaries, you must set the following execution policy <a>□:

Set-ExecutionPolicy -Scope CurrentUser -ExecutionPolicy RemoteSigned

Carefully read the message displayed after executing the command and follow the instructions. Make sure you understand the implications of setting an execution policy.

Create a workspace and initial application

You develop apps in the context of an Angular workspace.

To create a new workspace and initial starter app:

1. Run the CLI command ng new and provide the name my-app, as shown here:

ng **new my**-app

2. The ng new command prompts you for information about features to include in the initial app. Accept the defaults by pressing the Enter or Return key.

Skip to main content

ls the necessary Angular npm packages and other an take a few minutes.

The CLI creates a new workspace and a simple Welcome app, ready to run.

Run the application

The Angular CLI includes a server, for you to build and serve your applocally.

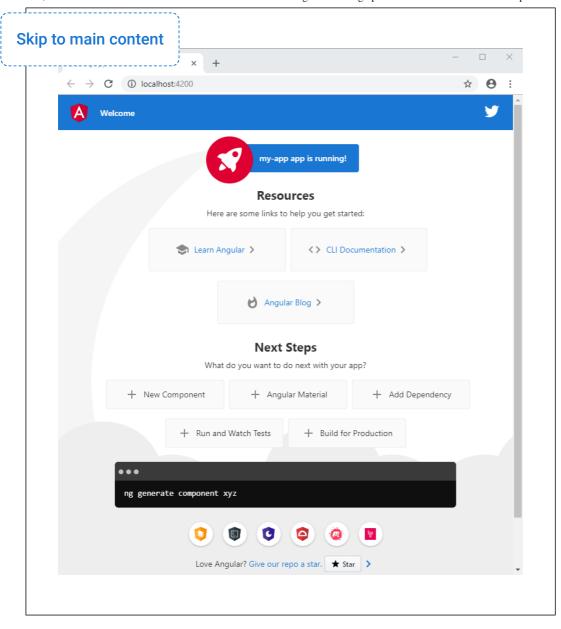
- 1. Navigate to the workspace folder, such as my-app
- 2. Run the following command:

```
cd my-app
ng serve --open
```

The ng serve command launches the server, watches your files, and rebuilds the app as you make changes to those files.

The --open (or just -o) option automatically opens your browser to http://localhost:4200/.

If your installation and setup was successful, you should see a page similar to the following.



Next steps

- For a more thorough introduction to the fundamental concepts and terminology of Angular single-page app architecture and design principles, read the Angular Concepts section.
- Work through the Tour of Heroes Tutorial, a complete hands-on exercise that introduces you to the app development process using the Angular CLI and walks through important subsystems.
- To learn more about using the Angular CLI, see the CLI Overview. In addition to creating the initial workspace and app scaffolding, use the CLI to generate Angular code such as components and services. The CLI supports the full development cycle, including building, testing, bundling, and deployment.
- For more information about the Angular files generated by ng new see Workspace and Project File Structure.

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