Getting Started

Prerequisites

- Visual Studio Code
- Node Version Manager (nvm)
- Git
- AWS Account

Visual Studio Code

Download and install the latest version of Visual Studio Code at https://code.visualstudio.com/download.

{width: 69%} download-vsc

Node

You will need to install Node version `14.15.5` on your machine. There are different ways to do this. I recommend using Node Version Manager (nvm).

Node Version Manager (nvm)

Install Node Version Manager (nvm) on you machine. This will allow you to target specific versions of Node and to change them without requiring a complete removal and install of Node.

- Mac OS installation: https://tecadmin.net/install-nvm-macos-with-homebrew/ for instructions.
- Max Big Sur installation: https://andrejacobs.org/macos/installing-node-js-on-macos-big-sur-using-nvm/
- Windows installation: https://dev.to/skaytech/how-to-install-node-version-manager-nvm-for-windows-10-4nbi

```
# install nvm
nvm use 14.15.5
node -v > .nvmrc
node -v #verify version
```

> After installing nmv, use the `nvm install 14.15.5` command to install and use this specific version.

Use the `node -v` command on your terminal to verify Node exists and the version

Angular Version

We will use the following Angular version for the workshop.

> Angular, Node TypeScript, and RxJS compatibility chart: See:
> https://gist.github.com/LayZeeDK/c822cc812f75bb07b7c55d07ba2719b3

- @angular/cli 12.2.6
- node 14.15.5

Install Node version 14.15.5 using nmv: `nvm install 14.15.5`

> Verify the installation with: `nvm ls`

If you already have the Angular CLI installed, you can determine what version of Angular you are using with this command: `ng version`

```
ng version

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Angular CLI: 11.2.14
Node: 14.15.5
OS: darwin x64

Angular:
...
Ivy Workspace:

Package                        Version
-----------------------------------------------------------
@angular-devkit/architect     0.1102.14 (cli-only)
@angular-devkit/core          11.2.14 (cli-only)
@angular-devkit/schematics    11.2.14 (cli-only)
@schematics/angular           11.2.14 (cli-only)
@schematics/update            0.1102.14 (cli-only)
```

Install updated version using npm: `npm install -g @angular/cli@12.2.6`. Verify the new installation and version with: `ng version`.

```
ng version

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Angular CLI: 12.2.16
```

```
Node: 14.15.5
Package Manager: npm 6.14.11
OS: darwin x64

Angular:
...

Package                      Version
-----------------------------------------------------
@angular-devkit/architect    0.1202.16 (cli-only)
@angular-devkit/core         12.2.16 (cli-only)
@angular-devkit/schematics   12.2.16 (cli-only)
@schematics/angular          12.2.16 (cli-only)
``

### Git

Use the `git --version` on your terminal to verify Git exists and the
version.

```ts
git version 2.30.1 (Apple Git-130)
```

Nx CLI

A significant portion of the workshop will take advantage of the Nx.dev tools and the Nx Workspace. Please install the following package globally on your machine.

```
npm i -g @nrwl/workspace@12.10.1
```

DataDogHQ Account for Logging

One of the workshop experiments is to set up a logging service library. We will use DataDogHQ as our centralized logging repository.

- set up a new account
- verify your account with the email address provided