

# Installation and Setup for Macs

## For Internet Computer Web3 Application Development

### Steps

#### Node

1. Go to the Node website and download the Long Term Support version of node (left side button should say something like 16.x.x LTS:

<https://nodejs.org/en/>

#### DFX

2. Open up your Terminal app (In your applications folder). Or just search for it with spotlight.
3. Copy the following command and paste it into your terminal and hit enter.

```
DFX_VERSION=0.9.3 sh -ci "$(curl -fsSL  
https://sdk.dfinity.org/install.sh)"
```

#### VSCode

4. Download the latest version of VSCode from here:
5. Install the Motoko language extension in VSCode (make sure it's from the Dfinity team, or just use the link below).

<https://marketplace.visualstudio.com/items?itemName=dfinity-foundation.vscode-motoko>

## Notes

- **We're going to work with dfx 9.0.3 so that we are all on the same version and you don't get any surprises. Even if it prompts you to upgrade dfx, don't do it!**
- Your node version should be higher than 16, so if you've already installed it, just check your version is higher than 16 using the following command in the terminal:

```
node -version
```

## Test Everything Worked by Creating and Deploying your First DApp

### Create the Default Hello DApp

1. Create a folder called **ic-projects** on your computer.
2. Open up the Terminal and navigate into the **ic-projects** folder.
3. Now run the following command in the terminal:

```
dfx new hello
```

### Deploy the DApp

4. Open up VSCode and go to File → Open and select the **hello** project in the **ic-projects** folder.
5. Open up a Terminal **inside** VSCode by going to Terminal → New Terminal
6. Paste the following command in the VSCode terminal:

```
dfx start
```

7. Split out another Terminal in VSCode and paste the following command:

```
dfx deploy
```

8. Finally, once step 7 is complete, run the following command:

```
npm start
```

9. Now you're ready to see your DApp in action at

<http://localhost:8080/>