

# Real time data streaming and monitoring with WebSocket and Socket.IO Software Installation Instructions

If you are facing problems with any parts of this installation process, please get back to me at: [victor.tan.33@gmail.com](mailto:victor.tan.33@gmail.com) before the start of the workshop

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## 1 Install 7-zip

You will need a good Zip file compression / decompression utility (beyond the standard Windows Zip) to use during the installation process below and also during the workshop labs.

I recommend installing 7-Zip:

<https://www.7-zip.org/>

## 2 Install Notepad++

You will need a reasonably good text editor as a supplement to the main IDE that we will be using. For Windows, there are many options, and I would recommend you use NotePad++

<https://notepad-plus-plus.org/downloads>

On the page above, download the Installer for the appropriate version of Windows that you are having and double click to begin the installation process, accepting all the standard defaults.

## 3 Install Visual Studio Code

We will need an IDE (Integrated Development Environment) to work with JavaScript. If you are already familiar with JavaScript and have been working with an IDE of your own, feel free to continue using that for the workshop.

Otherwise, we will be using the most popular open-source IDE for developing web apps, which is VS Code. This can be downloaded from:

<https://code.visualstudio.com/>

## 4 Install Node.js and NPM

<https://www.geeksforgeeks.org/installation-guide/install-node-js-on-windows/>

Follow Method 1 above for installing Node.js from the [official website](#)

Download using Windows Installer (.msi)

Or get a prebuilt Node.js® for Windows running a x64 architecture.

 Windows Installer (.msi)

 Standalone Binary (.zip)

Once you have finished installation, type the following 2 commands in a command prompt in Windows to validate successful installation of Node and NPM.

```
node -v
```

```
npm -v
```

## 5 Install Postman

Postman is a popular API platform testing tool that we will use to test Express.js API endpoints.

You can install it following the instructions here.

<https://learning.postman.com/docs/getting-started/installation/installation-and-updates/>

Follow the instructions on installing Postman on Windows

Note that you need an account to use Postman. You can use your Gmail account to login (Single Sign On – SSO).