

2.5 INTRODUCTION TO EXPRESS

Express is a small framework that sits on top of Node.js's web server functionality to simplify its APIs and add helpful new features. It makes it easier to organize your application's functionality with middle ware and routing; it adds helpful utilities to Node.js's HTTP objects; it facilitates the rendering of dynamic HTTP objects.

Express is a part of MEAN stack, a full stack JavaScript solution used in building fast, robust, and maintainable production web applications.

MongoDB(Database)

ExpressJS(Web Framework)

AngularJS(Front-end Framework)

NodeJS(Application Server)

Installing Express on Windows (WINDOWS 10)

Assuming that you have installed node.js on your system, the following steps should be followed to install express on your Windows:

STEP-1: Creating a directory for our project and make that our working directory.

```
$ mkdir gfg
```

```
$ cd gfg
```

STEP-2: Using npm init command to create a package.json file for our project.

```
$ npm init
```

This command describes all the dependencies of our project. The file will be updated when adding further dependencies during the development process, for example when you set up your build system.

```
C:\WINDOWS\system32\cmd.exe

Use `npm install <pkg>` afterwards to install a package and
save it as a dependency in the package.json file.

Press ^C at any time to quit.
package name: (rohit-aggarwal)
version: (1.0.0)
description:
git repository:
keywords:
author:
license: (ISC)
About to write to C:\Users\ROHIT AGGARWAL\package.json:

{
  "name": "rohit-aggarwal",
  "version": "1.0.0",
  "main": "index.js",
  "scripts": {
    "test": "echo \"Error: no test specified\" && exit 1"
  },
  "author": "",
  "license": "ISC",
  "description": ""
}

Is this OK? (yes) yes
```

Keep pressing enter and enter “yes/no” accordingly at the terminus line.

STEP-3: Installing Express

Now in your *gfg(name of your folder)* folder type the following command line:

\$ npm install express --save

```
C:\WINDOWS\system32\cmd.exe

Microsoft Windows [Version 10.0.17763.379]
(c) 2018 Microsoft Corporation. All rights reserved.

C:\Users\ROHIT AGGARWAL>cd gfg

C:\Users\ROHIT AGGARWAL\gfg>npm install express --save
npm notice created a lockfile as package-lock.json. You should commit this file.
npm WARN rohit-aggarwal@1.0.0 No description
npm WARN rohit-aggarwal@1.0.0 No repository field.

+ express@4.16.4
added 48 packages from 36 contributors and audited 121 packages in 14.83s
found 0 vulnerabilities

C:\Users\ROHIT AGGARWAL\gfg>
```

NOTE- Here “*WARN*” indicates the fields that must be entered in STEP-2.

STEP-4: Verify that Express.js was installed on your Windows:

To check that express.js was installed on your system or not, you can run the following command line on cmd:

C:\Users\Admin\gfg\node_modules>npm --version express

```
C:\WINDOWS\system32\cmd.exe

C:\Users\ROHIT AGGARWAL\gfg\node_modules>npm --version express
6.4.1

C:\Users\ROHIT AGGARWAL\gfg\node_modules>
```

The version of express.js will be displayed on successful installation.

