



## .NET CLI Common Commands (Windows, Linux & Mac OSX) & Software Installation

### 1. CLI Common Commands on Windows, Linux & Mac OSX

#### A. dotnet restore

This will restore all of the packages that are specified in the project.json file

#### B. dotnet run

This will run from the source of your restored nuget packages (Console or Web App)

#### C. dotnet build

Compiling to IL code is done with this command

Good Reference for .NET CLI Command Explanation:

<http://www.hanselman.com/blog/ExploringTheNewNETDotnetCommandLineInterfaceCLI.aspx>

### 2. .Net Core, Node.JS, Yeoman & ASP.NET Generator Installation

#### A. Windows (

1. Go to this URL: <https://www.microsoft.com/net/core#windows>
2. Click the links to Install Visual Studio Community 2015, Nuget Manager Extension, & the .NET Core SDK for Windows.

## Install for Windows

**Install .NET Core SDK**

Before you start

Remove all previous versions of .NET Core from your system by using Add/Remove programs.

Visual Studio users

The best way to develop with .NET Core on Windows is to download the [Visual Studio official MSI Installer](#) and the latest [NuGet Manager extension for Visual Studio](#). If you don't have Visual Studio already, you can download [Visual Studio Community 2015](#) for free.

Command line users

If you prefer to develop with the command line, you can download [the .NET Core SDK for Windows](#).

The diagram shows three blue arrows originating from the text. One arrow points from 'Visual Studio users' to 'Visual Studio official MSI Installer'. Another arrow points from 'Visual Studio official MSI Installer' to 'NuGet Manager extension for Visual Studio'. A third arrow points from 'Command line users' to 'the .NET Core SDK for Windows'.

3. Install Node.js: Go to this URL: <https://nodejs.org/en/download/> & Click the Windows Symbol & run through the installer.

Download the Node.js source code or a pre-built installer for your platform, and start developing today.

LTS

Recommended For Most Users

Current

Latest Features

Windows Installer

node-v4.4.5-x64.msi

Macintosh Installer

node-v4.4.5.pkg

Source Code

node-v4.4.5.tar.gz

Windows Installer (.msi)

32-bit

64-bit

4. Install Yeoman: Run this through your command line interface or node.js command line  
`npm install -g yo`
5. Install ASP.NET Generator via command line:  
`npm install -g generator-aspnet`
6. Generate ASP.NET Scaffolded App utilizing yeoman  
`Yo aspnet`

## B. Linux (Ubuntu)

7. Go to this URL: <https://www.microsoft.com/net/core#ubuntu>

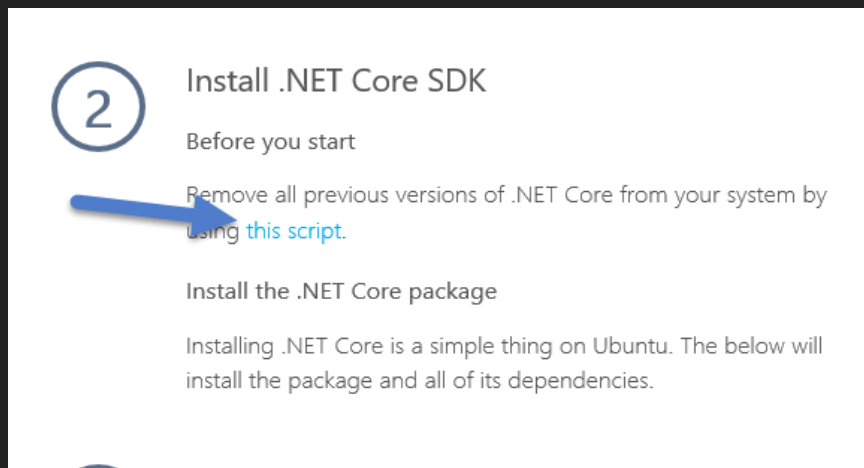
8. Add the new apt-get feed & run the command:  

```
sudo sh -c 'echo "deb [arch=amd64] https://apt-mo.trafficmanager.net/repos/dotnet/ trusty main" > /etc/apt/sources.list.d/dotnetdev.list'
```

```
sudo apt-key adv --keyserver apt-mo.trafficmanager.net --recv-keys 417A0893
```

```
sudo apt-get update
```
9. Install the SDK via command terminal. Click the remove script to remove previous versions of .NET Core.  

```
sudo apt-get install dotnet-dev-1.0.0-preview1-002702
```



10. Install Node.js: Run this in the command terminal  

```
sudo apt-get update
```

```
sudo apt-get install nodejs
```

```
sudo apt-get install npm
```
11. Install Yeoman: Run this through your command line interface or node.js command line  

```
Sudo npm install -g yo
```
12. Install ASP.NET Generator via command line:  

```
Sudo npm install -g generator-aspnet
```
13. Generate ASP.NET Scaffolded App utilizing yeoman

Yo aspnet

### C. Mac OSX

14. Go to this URL: <https://www.microsoft.com/net/core#macosx>

15. Install Homebrew & Openssl

```
/usr/bin/ruby -e "$(curl -fsSL
```

```
https://raw.githubusercontent.com/Homebrew/install/master/install)"
```

```
brew update
```

```
brew install openssl
```

```
brew link --force openssl
```

16. Install the SDK via the official PKG package Click the remove script to remove previous versions of .NET Core.

Install .NET Core SDK

Before you start

Remove all previous versions of .NET Core from your system by using [this script](#).

Install the official PKG

The best way to install .NET Core on OS X is to use the [official PKG package](#). This installer will install the tools and put them on your PATH.

Two blue arrows point from the text to the links: one from 'this script' and one from 'official PKG package'.

17. Install Node.js: Install Node.js: Go to this URL :

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

& Click the Apple Symbol & run through the installer.

The screenshot shows the Node.js download page. At the top, there are three main options: 'LTS Recommended For Most Users', 'Current Latest Features', and 'Source Code'. Below these are three installer options: 'Windows Installer', 'Macintosh Installer', and 'Source Code'. A blue arrow points to the 'Macintosh Installer' option. Below the installers, there is a table of download links for various operating systems and architectures.

|                             |                    |        |
|-----------------------------|--------------------|--------|
| Windows Installer (.msi)    | 32-bit             | 64-bit |
| Windows Binary (.exe)       | 32-bit             | 64-bit |
| Mac OS X Installer (.pkg)   | 64-bit             |        |
| Mac OS X Binaries (.tar.gz) | 64-bit             |        |
| Linux Binaries (.tar.xz)    | 32-bit             | 64-bit |
| Source Code                 | node-v4.4.5.tar.gz |        |

18. Install Yeoman: Run this through your command line interface or node.js command line

```
Sudo npm install -g yo
```

19. Install ASP.NET Generator via command line:

```
Sudo npm install -g generator-aspnet
```

20. Generate ASP.NET Scaffolded App utilizing yeoman

```
Yo aspnet
```