# Node.js Basics:-

Node.js is an open source ,cross-platform javascript [run-time e](https://en.wikipedia.org/wiki/Runtime_system" \o "Runtime system)nviroment for executing JavaScript code server side.

Node.js has become one of the foundational elements of the "JavaScript everywhere" paradigm allowing application development to unify around a single programming language, rather than rely on a different language for writing server side scripts.

* Node.js is open source Framework .
* Node.js allows to run Javascript on server.
* Node.js runs in various platforms like:-

1. windows.
2. Linux.
3. Unix.
4. Mac OS .
5. And etc..

The common task for a web server can be to open a file on the server and return the content to the client.

# Node.js handles a file request :-

1. Send’s the task to the computer’s file system.
2. Ready to handle the next request.
3. When the file system has opened and read the file ,the server returns the content to the client.

# The thing’s Node.js can do :-

1. Node.js can dynamic page content .
2. It can create , open ,write , read , delete and close file in the server.
3. Node.js can create ,delete and etc in database.

# Npm :-(Node package manager)

npm makes it easy for JavaScript developers to share and reuse code, and it makes it easy to update the code that you're sharing.npm makes it easy to check to see if the developer made any updates to it and to download those updates when they're made.

These bits of reusable code are called packages or modules. A package is just a directory with one or more files in it, along with a file called "package.json" that contains metadata about the package. A typical application, such as a website, will depend on dozens or hundreds of packages. These packages are often small. the general idea is that you create a small building block which solves one problem well. This makes it possible for you to compose larger custom solutions out of these small building blocks.

Reference :-

[https://youtu.be/x03fjb2VlGY](https://youtu.be/x03fjb2VlGY" \o "Share link" \t "https://www.youtube.com/embed/_blank)

 It is the default package manager for the JavaScript runtime environment [Node.js](https://en.wikipedia.org/wiki/Node.js" \o "Node.js).

# NVM :-(Node version manager)

you easily manage all your node installations and change node versions whenever you feel like it. It's called NVM, or the Node Version Manager.

The install process couldn't be easier. Once you're logged into your VPS, run this command:-

curl https://raw.githubusercontent.com/creationix/nvm/v0.11.1/install.sh | bash

It's not actually necessary to log out, we just need to make sure that the changes nvm made to your path are actually reflected, so just do:-

source ~/.profile

Run the command suggested in the output of the script. Now type:-

nvm ls-remote

 install git and rerun the script:-

apt-get install git

To install version 0.10.13 (the latest as of this writing) type:-

nvm install 0.10.13

If you type:-

node --version

When you're done and want to switch back to v0.10.13, you can do so with nvm's use command:-

nvm use v0.10.13

For keep the version default use the command :-

Nvm alias default v8.1.3