

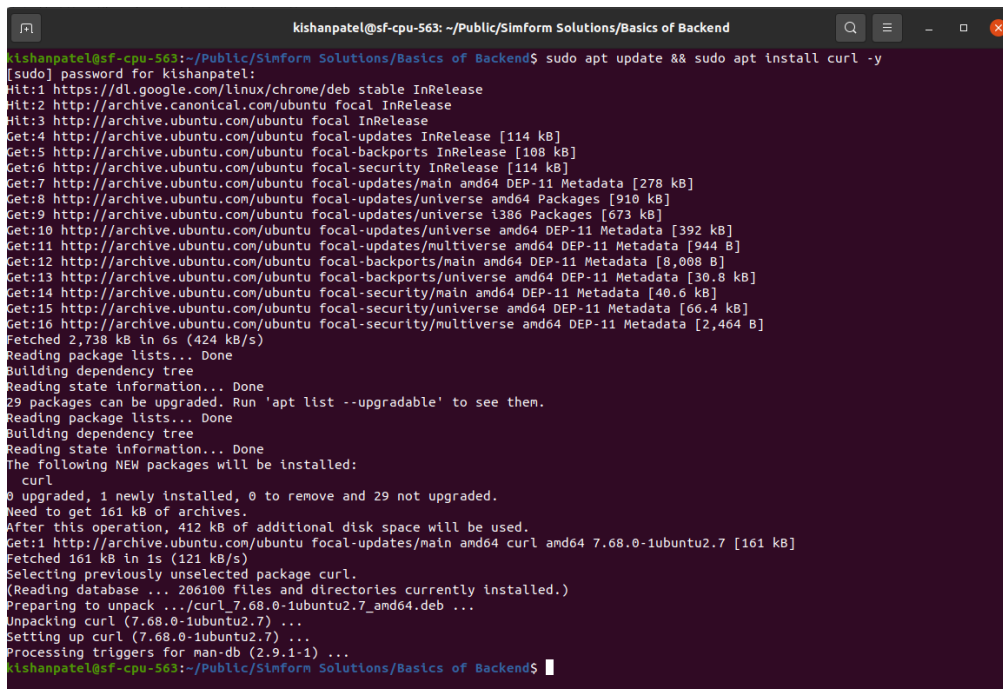
# Installation of Node.js

NVM is known as Node Version Manager, similarly to RVM (Ruby Version Manager) for Ruby language. NVM provides an option for the easy installation of Node.js. You can also install a specific Node.js version or multiple Node.js versions on the same system using nvm and use the required version for the application.

## Step 1 – Install NVM

First, make sure you have curl installed on your system:

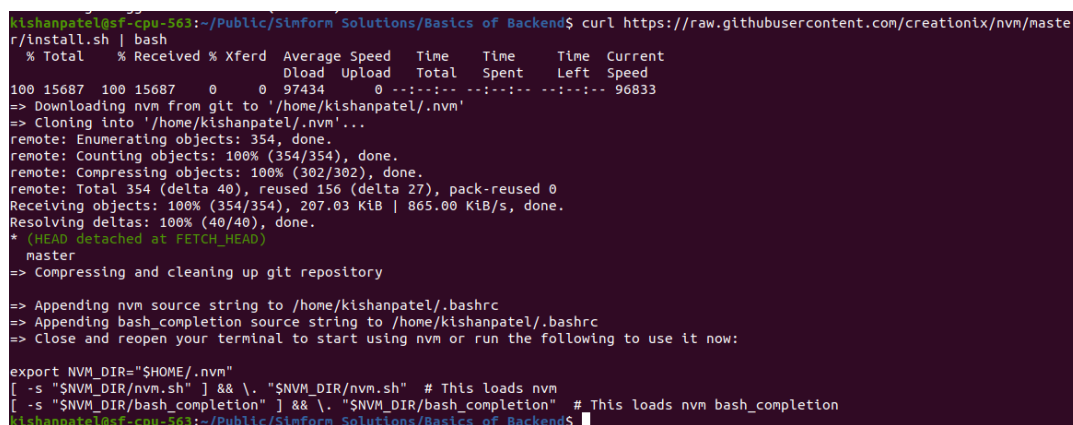
```
sudo apt update && sudo apt install curl -y
```



```
kishanpatel@sf-cpu-563: ~/Public/Sinform Solutions/Basics of Backend
kishanpatel@sf-cpu-563:~/Public/Sinform Solutions/Basics of Backend$ sudo apt update && sudo apt install curl -y
[sudo] password for kishanpatel:
Hit:1 https://dl.google.com/linux/chrome/deb stable InRelease
Hit:2 http://archive.canonical.com/ubuntu focal InRelease
Hit:3 http://archive.ubuntu.com/ubuntu focal InRelease
Get:4 http://archive.ubuntu.com/ubuntu focal-updates InRelease [114 kB]
Get:5 http://archive.ubuntu.com/ubuntu focal-backports InRelease [108 kB]
Get:6 http://archive.ubuntu.com/ubuntu focal-security InRelease [114 kB]
Get:7 http://archive.ubuntu.com/ubuntu focal-updates/main amd64 DEP-11 Metadata [278 kB]
Get:8 http://archive.ubuntu.com/ubuntu focal-updates/universe amd64 Packages [910 kB]
Get:9 http://archive.ubuntu.com/ubuntu focal-updates/universe i386 Packages [673 kB]
Get:10 http://archive.ubuntu.com/ubuntu focal-updates/universe amd64 DEP-11 Metadata [392 kB]
Get:11 http://archive.ubuntu.com/ubuntu focal-updates/multiverse amd64 DEP-11 Metadata [944 B]
Get:12 http://archive.ubuntu.com/ubuntu focal-backports/main amd64 DEP-11 Metadata [8,008 B]
Get:13 http://archive.ubuntu.com/ubuntu focal-backports/universe amd64 DEP-11 Metadata [30.8 kB]
Get:14 http://archive.ubuntu.com/ubuntu focal-security/main amd64 DEP-11 Metadata [40.6 kB]
Get:15 http://archive.ubuntu.com/ubuntu focal-security/universe amd64 DEP-11 Metadata [66.4 kB]
Get:16 http://archive.ubuntu.com/ubuntu focal-security/multiverse amd64 DEP-11 Metadata [2,464 B]
Fetched 2,738 kB in 6s (424 kB/s)
Reading package lists... Done
Building dependency tree
Reading state information... Done
29 packages can be upgraded. Run 'apt list --upgradable' to see them.
Reading package lists... Done
Building dependency tree
Reading state information... Done
The following NEW packages will be installed:
  curl
0 upgraded, 1 newly installed, 0 to remove and 29 not upgraded.
Need to get 161 kB of archives.
After this operation, 412 kB of additional disk space will be used.
Get:1 http://archive.ubuntu.com/ubuntu focal-updates/main amd64 curl amd64 7.68.0-1ubuntu2.7 [161 kB]
Fetched 161 kB in 1s (121 kB/s)
Selecting previously unselected package curl.
(Reading database ... 206100 files and directories currently installed.)
Preparing to unpack .../curl_7.68.0-1ubuntu2.7_amd64.deb ...
Unpacking curl (7.68.0-1ubuntu2.7) ...
Setting up curl (7.68.0-1ubuntu2.7) ...
Processing triggers for man-db (2.9.1-1) ...
kishanpatel@sf-cpu-563:~/Public/Sinform Solutions/Basics of Backend$
```

1. Next, run the following command to configure nvm on your system for current logged user.

```
curl https://raw.githubusercontent.com/creationix/nvm/master/install.sh | bash
```



```
kishanpatel@sf-cpu-563:~/Public/Sinform Solutions/Basics of Backend$ curl https://raw.githubusercontent.com/creationix/nvm/master/install.sh | bash
% Total    % Received % Xferd  Average Speed   Time    Time     Time  Current
           Dload  Upload   Total   Spent    Left   Speed
100 15687  100 15687    0     0  97434      0 --:--:-- --:--:-- --:--:-- 96833
=> Downloading nvm from git to '/home/kishanpatel/.nvm'
=> Cloning into '/home/kishanpatel/.nvm'...
remote: Enumerating objects: 354, done.
remote: Counting objects: 100% (354/354), done.
remote: Compressing objects: 100% (302/302), done.
remote: Total 354 (delta 40), reused 156 (delta 27), pack-reused 0
Receiving objects: 100% (354/354), 207.03 KiB | 865.00 KiB/s, done.
Resolving deltas: 100% (40/40), done.
* (HEAD detached at FETCH_HEAD)
  master
=> Compressing and cleaning up git repository

=> Appending nvm source string to '/home/kishanpatel/.bashrc'
=> Appending bash_completion source string to '/home/kishanpatel/.bashrc'
=> Close and reopen your terminal to start using nvm or run the following to use it now:

export NVM_DIR="$HOME/.nvm"
[ -s "$NVM_DIR/nvm.sh" ] && \. "$NVM_DIR/nvm.sh" # This loads nvm
[ -s "$NVM_DIR/bash_completion" ] && \. "$NVM_DIR/bash_completion" # This loads nvm bash_completion
kishanpatel@sf-cpu-563:~/Public/Sinform Solutions/Basics of Backend$
```

2. Reload system environment using this command. It will set the required environment variables to use nvm on the system.

- **Debian based systems:**

```
source ~/.profile
```

- **CentOS, Fedora and Redhat systems:**

```
source ~/.bashrc
```

```
kishanpatel@sf-cpu-563:~/Public/Sinform Solutions/Basics of Backend$ source ~/.bashrc
```

## Step 2 – Find Available Node.js Version

At this point, you have installed nvm on your system for the current user. Now find out the available version of Node.js to install. Use `ls - remote` option to list versions.

```
nvm ls-remote
```

```
kishanpatel@sf-cpu-563:~/Public/Sinform Solutions/Basics of Backend$ nvm ls-remote
v0.1.14
v0.1.15
v0.1.16
v0.1.17
v0.1.18
v0.1.19
v0.1.20
v0.1.21
v0.1.22
v0.1.23
v0.1.24
v0.1.25
v0.1.26
v0.1.27
v0.1.28
v0.1.29
v0.1.30
v0.1.31
v0.1.32
v0.1.33
v0.1.90
v0.1.91
v0.1.92
v0.1.93
v0.1.94
v0.1.95
```

## Step 3 – Installing Node.js with NVM

Now install the node.js version you need to use for running the node.js application. Below command will install node.js **14.16.0** the LTS release on your system.

```
nvm install v16.14.0
```

```
kishanpatel@sf-cpu-563:~/Public/Sinform Solutions/Basics of Backend$ nvm install v16.14.1
Downloading and installing node v16.14.1...
Downloading https://nodejs.org/dist/v16.14.1/node-v16.14.1-linux-x64.tar.xz...
##### 100.0%
Computing checksum with sha256sum
Checksums matched!
Now using node v16.14.1 (npm v8.5.0)
Creating default alias: default -> v16.14.1
```

## **To Remove Unused Node.js Version**

This command will provide a list of installed versions of node.js on your system.

```
nvm list
```

You can remove any unused version from your system. For example, to remove Node.js version 9.5.9 execute the following command:

```
nvm uninstall v9.5.0
```