# **NVM (NODE VERSION MANAGER)**

#### **Definition**

NVM, known as node version manager, is a command line tool that allows us to install, manage, and switch between multiple versions of Node.js on our system. This is particularly important for the developers working on project that requires multiple version of Node.js

### It's Key Features:

- It allows us to install and manage multiple versions of Node.js.
- We are able to quickly switch between the differenc version of Node.js as needed.
- Useful for testing applications on different Node.js versions.
- Prevents breaking changes when updating Node.js.

#### **NVM INSTALLATION**

- For macOs/Linux
  - > **Step1:** To install or update nvm you should run the install script. To do that you may either download and run script manually, or use the following cURL or Wget command:

```
curl -o- https://raw.githubusercontent.com/nvm-sh/nvm/v0.40.1/install.sh | bash

wget -q0- https://raw.githubusercontent.com/nvm-sh/nvm/v0.40.1/install.sh | bash
```

```
anshul@anshul-Standard:~$ curl -o- https://raw.githubusercontent.com/nvm-sh/nvm/
v0.39.4/install.sh | bash
 % Total
            % Received % Xferd Average Speed
                                              Time
                                                      Time
                                                                    Current
                               Dload Upload
                                              Total
                                                      Spent
                                                               Left
                                                                    Speed
100 15916 100 15916
                            0 24382
                                         0 --:--:- 24373
=> nvm is already installed in /home/anshul/.nvm, trying to update using git
=> => Compressing and cleaning up git repository
```

> Step2: Restart Your Terminal or run,

```
source ~/.bashrc # or ~/.bash_profile or ~/.zshrc (depends on your shell)
```

> Step3: Verify Installation,

```
nvm --version

anshul@anshul-Standard:~$ nvm --version

0.40.1
```

#### For Windows

Windows users should install nvm-windows, as the standard NVM is mainly for Unix-based systems.

- Download the installer from: <u>nvm-windows GitHub</u>
- Install and restart your terminal.
- Verify installation:

nvm --version

## **Installing Node.js using NVM**

 Use Command: nvm install 16.20.0 // replace the version with required version

nvm install 16.20.0

• To install Long term support (LTS version) use:

nvm install --lts

```
anshul@anshul-Standard:~$ nvm install --lts
Installing latest LTS version.
v22.14.0 is already installed.
Now using node v22.14.0 (npm v10.9.2)
```

- To check all the installed Node.js version we use:
  - > nvm list or nvm ls

```
anshul@anshul-Standard:~$ nvm list
     v22.14.0
       svstem
default -> 22 (-> v22.14.0)
iojs -> N/A (default)
unstable -> N/A (default)
node -> stable (-> v22.14.0) (default)
stable -> 22.14 (-> v22.14.0) (default)
lts/* -> lts/jod (-> v22.14.0)
lts/argon -> v4.9.1 (-> N/A)
lts/boron -> v6.17.1 (-> N/A)
lts/carbon -> v8.17.0 (-> N/A)
lts/dubnium -> v10.24.1 (-> N/A)
lts/erbium -> v12.22.12 (-> N/A)
lts/fermium -> v14.21.3 (-> N/A)
lts/gallium -> v16.20.2 (-> N/
lts/hydrogen -> v18.20.7 (-> N/A)
lts/iron -> v20.18.3 (-> N/A)
lts/jod -> v22.14.0
```

## **Checking Available Node.js Versions**

• To check all available versions:

```
nvm list-remotev0.1.14, v0.1.15, v0.1.16............... v23.9.0
```

### Using a Specific Node.js Version

- To switch to a different installed version
  - o nvm use 22.14.0

```
anshul@anshul-Standard:~$ nvm use 22.14.0
Now using node v22.14.0 (npm v10.9.2)
```

### Setting a Default Node.js Version

- To make a specific version the default:
  - > nvm alias default 18.0.0

```
anshul@anshul-Standard:~$ nvm alias default 18.20.0
default -> 18.20.0 (-> v18.20.0)
```

> This ensures that every new terminal session starts with this version.

## **Checking the Current Node.js Version**

- To see which version is currently active:
  - > node -v

```
V22.14.0 □
```

# **Removing Node.js Versions**

- To uninstall a specific Node.js version:
  - > nvm uninstall 16.20.0
  - > Before Unstallation:

```
anshul@anshul-Standard:~$ nvm ls
      v16.20.0
       system
default -> 18.20.0 (-> v18.20.0)
lojs -> N/A (default)
unstable -> N/A (default)
node -> stable (-> v22.14.0) (default)
stable -> 22.14 (-> v22.14.0) (default)
lts/* -> lts/jod (-> v22.14.0)
lts/argon -> v4.9.1 (-> N/A)
lts/boron -> v6.17.1 (-> N/A)
lts/carbon -> v8.17.0 (-> N/A)
lts/dubnium -> v10.24.1 (-> N/
lts/erbium -> v12.22.12 (-> N
lts/fermium -> v14.21.3 (-> N
lts/gallium -> v16.20.2 (-> N/A)
lts/hydrogen -> v18.20.7 (-> N/A)
lts/iron -> v20.18.3 (-> N/A)
lts/jod -> v22.14.0
```

#### > After Unstallation:

```
anshul@anshul-Standard:~$ nvm uninstall 16.20.0
Uninstalled node v16.20.0
anshul@anshul-Standard:~$ nvm ls
-> v22.14.0
        system
default -> 18.20.0 (-> v18.20.0)
iojs -> N/A (default)
unstable -> N/A (default)
node -> stable (-> v22.14.0) (default)
stable -> 22.14 (-> v22.14.0) (default)
lts/* -> lts/jod (-> v22.14.0)
lts/argon -> v4.9.1 (-> N/A)
lts/boron -> v6.17.1 (-> N/A)
lts/carbon -> v8.17.0 (-> N/A)
lts/erbium -> v12.22.12 (-> N/A)
lts/fermium -> v14.21.3 (-> N/A)
lts/gallium -> v16.20.2 (-> N/A)
lts/hydrogen -> v18.20.7 (-> N/A)
lts/iron -> v20.18.3 (-> N/A)
lts/jod -> v22.14.0
```