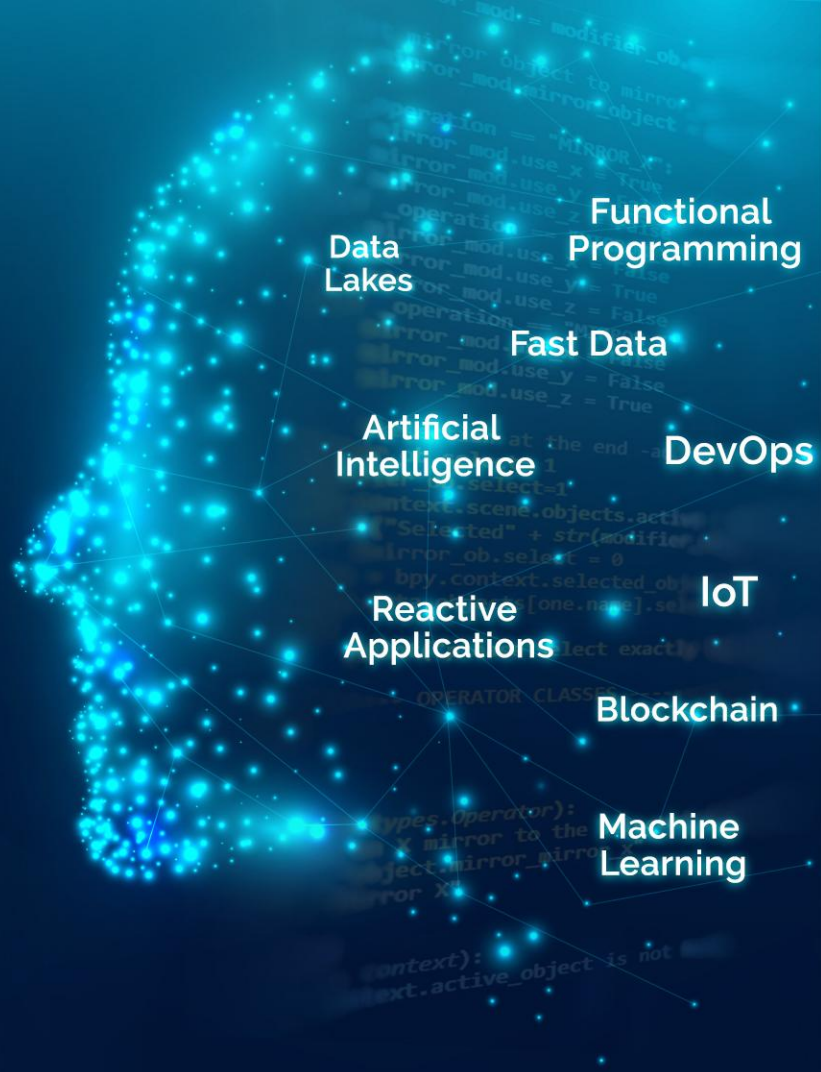


NPM Installation

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Our Agenda

Setup nodejs environment in your machine and install the following packages as global packages -

1. Angular
2. React
3. Vue
4. Ionic

Once installed, check the packages via executing their CLI commands.

Step 1- Update the sudo

A screenshot of a terminal window titled 'Terminal' with a timestamp of 'Sep 3 10:50'. The terminal shows the command 'sudo apt update' being executed. The output lists several package repositories and their release status, followed by a summary of package updates.

```
knoldus@knoldus-Vostro-3500:~$ sudo apt update
[sudo] password for knoldus:
Hit:1 http://dl.google.com/linux/chrome/deb stable InRelease
Hit:2 http://in.archive.ubuntu.com/ubuntu focal InRelease
Hit:3 https://download.docker.com/linux/ubuntu focal InRelease
Hit:4 http://in.archive.ubuntu.com/ubuntu focal-updates InRelease
Hit:5 http://in.archive.ubuntu.com/ubuntu focal-backports InRelease
Hit:7 http://security.ubuntu.com/ubuntu focal-security InRelease
Hit:6 https://scala.jfrog.io/artifactory/debian all InRelease
Ign:8 https://scala.jfrog.io/artifactory/debian InRelease
Hit:9 https://scala.jfrog.io/artifactory/debian Release
Reading package lists... Done
Building dependency tree
Reading state information... Done
12 packages can be upgraded. Run 'apt list --upgradable' to see them.
knoldus@knoldus-Vostro-3500:~$
```

Step-2 Install nodejs and check version

```
knoldus@knoldus-Vostro-3500: ~  
knoldus@knoldus-Vostro-3500:~$ sudo apt install nodejs  
Reading package lists... Done  
Building dependency tree  
Reading state information... Done  
The following packages were automatically installed and are no longer required:  
  libfprint-2-tod1 liblvm10  
Use 'sudo apt autoremove' to remove them.  
The following additional packages will be installed:  
  libc-ares2 libnode64 nodejs-doc  
Suggested packages:  
  npm  
The following NEW packages will be installed:  
  libc-ares2 libnode64 nodejs nodejs-doc  
0 upgraded, 4 newly installed, 0 to remove and 12 not upgraded.  
Need to get 6,807 kB of archives.  
After this operation, 30.7 MB of additional disk space will be used.  
Do you want to continue? [Y/n] y  
Get:1 http://in.archive.ubuntu.com/ubuntu focal-updates/main amd64 libc-ares2 amd64 1.15.0-1ubuntu0.1 [38.2 kB]  
Get:2 http://in.archive.ubuntu.com/ubuntu focal/universe amd64 libnode64 amd64 10.19.0-dfsg-3ubuntu1 [5,765 kB]  
Get:3 http://in.archive.ubuntu.com/ubuntu focal/universe amd64 nodejs-doc all 10.19.0-dfsg-3ubuntu1 [942 kB]  
Get:4 http://in.archive.ubuntu.com/ubuntu focal/universe amd64 nodejs amd64 10.19.0-dfsg-3ubuntu1 [61.1 kB]  
Fetched 6,807 kB in 5s (1,363 kB/s)  
Selecting previously unselected package libc-ares2:amd64.  
(Reading database ... 198610 files and directories currently installed.)  
Preparing to unpack .../libc-ares2_1.15.0-1ubuntu0.1_amd64.deb ...  
Unpacking libc-ares2:amd64 (1.15.0-1ubuntu0.1) ...  
Selecting previously unselected package libnode64:amd64.  
Preparing to unpack .../libnode64_10.19.0-dfsg-3ubuntu1_amd64.deb ...  
Unpacking libnode64:amd64 (10.19.0-dfsg-3ubuntu1) ...  
Selecting previously unselected package nodejs-doc.  
Preparing to unpack .../nodejs-doc_10.19.0-dfsg-3ubuntu1_all.deb ...  
Unpacking nodejs-doc (10.19.0-dfsg-3ubuntu1) ...  
Selecting previously unselected package nodejs.  
Preparing to unpack .../nodejs_10.19.0-dfsg-3ubuntu1_amd64.deb ...  
Unpacking nodejs (10.19.0-dfsg-3ubuntu1) ...  
Setting up libc-ares2:amd64 (1.15.0-1ubuntu0.1) ...  
Setting up libnode64:amd64 (10.19.0-dfsg-3ubuntu1) ...  
Setting up nodejs-doc (10.19.0-dfsg-3ubuntu1) ...  
Setting up nodejs (10.19.0-dfsg-3ubuntu1) ...  
update-alternatives: using /usr/bin/nodejs to provide /usr/bin/js (js) in auto mode  
Processing triggers for libc-bin (2.31-0ubuntu9.2) ...  
Processing triggers for man-db (2.9.1-1) ...  
knoldus@knoldus-Vostro-3500:~$ node -v  
v10.19.0  
knoldus@knoldus-Vostro-3500:~$
```

Step-3 Install NPM

```
knoldus@knoldus-Vostro-3500: ~$ sudo apt install npm
Reading package lists... Done
Building dependency tree
Reading state information... Done
The following packages were automatically installed and are no longer required:
  libfprint-2-tod1 libllvm10
Use 'sudo apt autoremove' to remove them.
The following additional packages will be installed:
  binutils binutils-common binutils-x86-64-linux-gnu build-essential dpkg-dev
  fakeroot g++ g++-9 gcc gcc-9 gyp javascript-common libalgorithm-diff-perl
  libalgorithm-diff-xs-perl libalgorithm-merge-perl libasan5 libatomic1
  libbinutils libc-dev-bin libc6-dev libcrypt-dev libctf-nobfd0 libctf0
  libfakeroot libgcc-9-dev libitm1 libjs-inherits libjs-is-typedarray
  libjs-psl libjs-typedarray-to-buffer liblsan0 libnode-dev libpython2-stdlib
  libpython2.7-minimal libpython2.7-stdlib libquadmath0 libssl-dev
  libstdc++-9-dev libtsan0 libubsan1 libuv1-dev linux-libc-dev make
  manpages-dev node-abbrev node-ajv node-ansi node-ansi-align node-ansi-regex
  node-ansi-styles node-ansistyles node-aproba node-archy
  node-are-we-there-yet node-asap node-asn1 node-assert-plus node-asynckit
  node-aws-sign2 node-aws4 node-balanced-match node-bcrypt-pbkdf node-bl
  node-bluebird node-boxen node-brace-expansion node-builtin-modules
  node-builtins node-cacache node-call-limit node-camelcase node-caseless
  node-chalk node-chownr node-ci-info node-cli-boxes node-clui node-clone
  node-co node-color-convert node-color-name node-colors node-columnify
  node-combined-stream node-concat-map node-concat-stream node-config-chain
  node-configstore node-console-control-strings node-copy-concurrently
  node-core-util-is node-cross-spawn node-crypto-random-string node-cyclist
  node-dashdash node-debug node-decamelize node-decompress-response
  node-deep-extend node-defaults node-define-properties node-delayed-stream
  node-delegates node-detect-indent node-detect-newline node-dot-prop
  node-duplexer3 node-duplexify node-ecc-jsbn node-editor node-encoding
  node-end-of-stream node-err-code node-errno node-es6-promise
  node-escape-string-regexp node-execa node-extend node-extsprintf
  node-fast-deep-equal node-find-up node-flush-write-stream node-forever-agent
  node-form-data node-from2 node-fs-vacuum node-fs-write-stream-atomic
  node-fs.realpath node-function-bind node-gauge node-genfun
  node-get-caller-file node-get-stream node-getpass node-glob node-got
  node-graceful-fs node-gyp node-har-schema node-har-validator node-has-flag
```


Step-4 Install angular cli , Step-5 check ng version , Step 6- install ionic cli

```
knoldus@knoldus-Vostro-3500:~$ sudo npm install -g @angular/cli
npm WARN deprecated request@2.88.2: request has been deprecated, see https://github.com/request/request/issues/3142
npm WARN deprecated har-validator@5.1.5: this library is no longer supported
npm WARN deprecated uuid@3.4.0: Please upgrade to version 7 or higher. Older versions may use Math.random() in certain circumstances, which is known to be problematic. See https://v8.dev/blog/math-random for details.
/usr/local/bin/ng -> /usr/local/lib/node_modules/@angular/cli/bin/ng

> @angular/cli@12.2.4 postinstall /usr/local/lib/node_modules/@angular/cli
> node ./bin/postinstall/script.js

? Would you like to share anonymous usage data with the Angular Team at Google under
Google's Privacy Policy at https://policies.google.com/privacy? For more details
and
how to change this setting, see https://angular.io/analytics. Yes
npm WARN notsup Unsupported engine for @angular/cli@12.2.4: wanted: {"node":">=14.0.0","npm":">=6.11.0","yarn":">=1.13.0"} (current: {"node":"10.19.0","npm":"6.14.4"})
npm WARN notsup Not compatible with your version of node/npm: @angular/cli@12.2.4
npm WARN notsup Unsupported engine for open@8.2.1: wanted: {"node":">=12"} (current: {"node":"10.19.0","npm":"6.14.4"})
npm WARN notsup Not compatible with your version of node/npm: open@8.2.1
npm WARN notsup Unsupported engine for @angular-devkit/architect@0.1202.4: wanted: {"node":">=14.0.0","npm":">=6.11.0","yarn":">=1.13.0"} (current: {"node":"10.19.0","npm":"6.14.4"})
)
npm WARN notsup Not compatible with your version of node/npm: @angular-devkit/architect@0.1202.4
npm WARN notsup Unsupported engine for @angular-devkit/schematics@12.2.4: wanted: {"node":">=14.0.0","npm":">=6.11.0","yarn":">=1.13.0"} (current: {"node":"10.19.0","npm":"6.14.4"})
npm WARN notsup Not compatible with your version of node/npm: @angular-devkit/schematics@12.2.4
npm WARN notsup Unsupported engine for @angular-devkit/core@12.2.4: wanted: {"node":">=14.0.0","npm":">=6.11.0","yarn":">=1.13.0"} (current: {"node":"10.19.0","npm":"6.14.4"})
npm WARN notsup Not compatible with your version of node/npm: @angular-devkit/core@12.2.4
npm WARN notsup Unsupported engine for @schematics/angular@12.2.4: wanted: {"node":">=14.0.0","npm":">=6.11.0","yarn":">=1.13.0"} (current: {"node":"10.19.0","npm":"6.14.4"})
npm WARN notsup Not compatible with your version of node/npm: @schematics/angular@12.2.4

+ @angular/cli@12.2.4
added 240 packages from 183 contributors in 78.439s
knoldus@knoldus-Vostro-3500:~$
knoldus@knoldus-Vostro-3500:~$ ng --version
Node.js version v10.19.0 detected.
The Angular CLI requires a minimum Node.js version of either v12.14 or v14.15.

Please update your Node.js version or visit https://nodejs.org/ for additional instructions.

knoldus@knoldus-Vostro-3500:~$ sudo npm i -g @ionic/cli
/usr/local/bin/ionic -> /usr/local/lib/node_modules/@ionic/cli/bin/ionic
+ @ionic/cli@6.17.0
added 212 packages from 157 contributors in 40.678s
knoldus@knoldus-Vostro-3500:~$ ionic -v
6.17.0
knoldus@knoldus-Vostro-3500:~$
```

Step 7 -Install vue cli and check version

```
knoldus@knoldus-Vostro-3500:~$ sudo npm install -g @vue/cli
npm WARN deprecated request@2.88.2: request has been deprecated, see https://github.com/request/request/issues/3142
npm WARN deprecated @hapi/joi@15.1.1: Switch to 'npm install joi'
npm WARN deprecated @hapi/topo@3.1.6: This version has been deprecated and is no longer supported or maintained
npm WARN deprecated @hapi/bourne@1.3.2: This version has been deprecated and is no longer supported or maintained
npm WARN deprecated @hapi/address@2.1.4: Moved to 'npm install @sideway/address'
npm WARN deprecated @hapi/hoek@8.5.1: This version has been deprecated and is no longer supported or maintained
npm WARN deprecated har-validator@5.1.5: this library is no longer supported
npm WARN deprecated uuid@3.4.0: Please upgrade to version 7 or higher. Older versions may use Math.random() in certain circumstances, which is known to be problematic. See https://v8.dev/blog/math-random for details.
npm WARN deprecated graphql-tools@4.0.8: This package has been deprecated and now it only exports makeExecutableSchema. And it will no longer receive updates. We recommend you to migrate to scoped packages such as @graphql-tools/schema, @graphql-tools/utils and etc. Check out https://www.graphql-tools.com to learn what package you should use instead
npm WARN deprecated apollo-cache-control@0.14.0: The functionality provided by the 'apollo-cache-control' package is built in to 'apollo-server-core' starting with Apollo Server 3. See https://www.apollographql.com/docs/apollo-server/migration/#cachecontrol for details.
npm WARN deprecated apollo-tracing@0.15.0: The 'apollo-tracing' package is no longer part of Apollo Server 3. See https://www.apollographql.com/docs/apollo-server/migration/#tracing for details
npm WARN deprecated graphql-extensions@0.15.0: The 'graphql-extensions' API has been removed from Apollo Server 3. Use the plugin API instead: https://www.apollographql.com/docs/apollo-server/integration/plugins/
npm WARN deprecated resolve-url@0.2.1: https://github.com/lydell/resolve-url#deprecated
npm WARN deprecated urix@0.1.0: Please see https://github.com/lydell/urix#deprecated
/usr/local/bin/vue -> /usr/local/lib/node_modules/@vue/cli/bin/vue.js

> core-js-pure@3.17.2 postinstall /usr/local/lib/node_modules/@vue/cli/node_modules/core-js-pure
> node -e "try{require('./postinstall')}catch(e){}"

Thank you for using core-js ( https://github.com/zloirock/core-js ) for polyfilling JavaScript standard library!

The project needs your help! Please consider supporting of core-js:
> https://opencollective.com/core-js
> https://patreon.com/zloirock
> https://paypal.me/zloirock
> bitcoin: bc1qlea7544qtsnj2rayg0lthvza9fau63ux0fstcz

Also, the author of core-js ( https://github.com/zloirock ) is looking for a good job :)

> @apollo/protobufjs@1.2.2 postinstall /usr/local/lib/node_modules/@vue/cli/node_modules/@apollo/protobufjs
> node scripts/postinstall

> ejss@2.7.4 postinstall /usr/local/lib/node_modules/@vue/cli/node_modules/ejss
> node ./postinstall.js

Thank you for installing EJS: built with the Jake JavaScript build tool (https://jakejs.com/)

+ @vue/cli@4.5.13
added 931 packages from 584 contributors in 205.253s
knoldus@knoldus-Vostro-3500:~$
knoldus@knoldus-Vostro-3500:~$ vue --version
@vue/cli 4.5.13
knoldus@knoldus-Vostro-3500:~$ sudo npm -g install create-react-app
```

Step 8 -Create a React App

```
knoldus@knoldus-Vostro-3500:~$ sudo npm -g install create-react-app
npm WARN deprecated tar@2.2.2: This version of tar is no longer supported, and will not receive security updates. Please upgrade asap.
/usr/local/bin/create-react-app -> /usr/local/lib/node_modules/create-react-app/index.js
+ create-react-app@4.0.3
added 67 packages from 25 contributors in 10.776s
knoldus@knoldus-Vostro-3500:~$ create-react-app --version
4.0.3
knoldus@knoldus-Vostro-3500:~$
```


Thank You !