

```
osboxes@osboxes: ~/nodejs/nodejs
$ git clone https://github.com/GeethaHavan128/nodejs.git
Cloning into 'nodejs'...
remote: Enumerating objects: 516, done.
remote: Counting objects: 100% (516/516), done.
remote: Compressing objects: 100% (399/399), done.
remote: Total 516 (delta 93), reused 516 (delta 93), pack-reused 0
Receiving objects: 100% (516/516), 659.80 KiB | 757.00 KiB/s, done.
Resolving deltas: 100% (93/93), done.
osboxes@osboxes:~$ sudo apt install nodejs
[sudo] password for osboxes:
Reading package lists... Done
Building dependency tree
Reading state information... Done
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 367 not upgraded.
Need to get 6.807 KiB of archives.
After this operation, 10.7 MB of additional disk space will be used.
Do you want to continue? [Y/n] y
Get:1 http://us.archive.ubuntu.com/ubuntu focal-updates/main amd64 libc-ares2 amd64 1.15.0-1ubuntu0.1 [10.2 kB]
Get:2 http://us.archive.ubuntu.com/ubuntu focal/universe amd64 libnode64 amd64 10.19.0-dfsg-3ubuntu1 [5,765 kB]
Get:3 http://us.archive.ubuntu.com/ubuntu focal/universe amd64 nodejs-doc all 10.19.0-dfsg-3ubuntu1 [942 kB]
Get:4 http://us.archive.ubuntu.com/ubuntu focal/universe amd64 nodejs amd64 10.19.0-dfsg-3ubuntu1 [61.1 kB]
Fetched 6.807 kB in 3s (219 KiB/s)
Selecting previously unselected package libc-ares2:amd64.
(Reading database ... 143642 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) ...
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osboxes@osboxes: ~/nodejs/nodejs
Get:37 http://us.archive.ubuntu.com/ubuntu focal-updates/main amd64 build-essential amd64 12.0ubuntu1 [4,664 B]
Get:38 http://us.archive.ubuntu.com/ubuntu focal/main amd64 libfakeroot amd64 1.24-1 [25.7 kB]
Get:39 http://us.archive.ubuntu.com/ubuntu focal/main amd64 fakeroot amd64 1.24-1 [62.6 kB]
Get:40 http://us.archive.ubuntu.com/ubuntu focal/main amd64 libalgorithm-diff-perl all 1.19.03-2 [46.6 kB]
Get:41 http://us.archive.ubuntu.com/ubuntu focal/main amd64 libalgorithm-diff-xs-perl amd64 0.04-6 [11.3 kB]
Get:42 http://us.archive.ubuntu.com/ubuntu focal/main amd64 libalgorithm-merge-perl all 0.08-3 [12.0 kB]
Get:43 http://us.archive.ubuntu.com/ubuntu focal-updates/main amd64 libexpat1-dev amd64 2.2.9-1ubuntu0.6 [116 kB]
Get:44 http://us.archive.ubuntu.com/ubuntu focal-updates/main amd64 libpython3.8-dev amd64 3.8.10-0ubuntu1-20.04.6 [3,949 kB]
Get:45 http://us.archive.ubuntu.com/ubuntu focal/main amd64 libpython3-dev amd64 3.8.2-0ubuntu1 [7,236 B]
Get:46 http://us.archive.ubuntu.com/ubuntu focal/main amd64 nanpython-dev all 5.05-1 [2,266 kB]
Get:47 http://us.archive.ubuntu.com/ubuntu focal-updates/universe amd64 python-pip-whl all 20.0.2-0ubuntu1.7 [1,095 kB]
Get:48 http://us.archive.ubuntu.com/ubuntu focal-updates/main amd64 zlib1g-dev amd64 1:1.2.11-dfsg-2ubuntu1.5 [159 kB]
Get:49 http://us.archive.ubuntu.com/ubuntu focal-updates/main amd64 python3.8-dev amd64 3.8.10-0ubuntu1-20.04.6 [514 kB]
Get:50 http://us.archive.ubuntu.com/ubuntu focal-updates/main amd64 python3-distutils all 3.8.10-0ubuntu1-20.04 [144 kB]
Get:51 http://us.archive.ubuntu.com/ubuntu focal/main amd64 python3-dev amd64 3.8.2-0ubuntu1 [1,212 B]
Get:52 http://us.archive.ubuntu.com/ubuntu focal-updates/main amd64 python3-setuptools all 45.2.0-1ubuntu0.1 [330 kB]
Get:53 http://us.archive.ubuntu.com/ubuntu focal-updates/universe amd64 python3-wheel all 0.34.2-1ubuntu1 [23.9 kB]
Get:54 http://us.archive.ubuntu.com/ubuntu focal-updates/universe amd64 python3-pip all 20.0.2-0ubuntu1.7 [230 kB]
Fetched 73.6 MB in 20m 24s (511 kB/s)
Extracting templates from packages: 100%
Preconfiguring packages ...
(Reading database ... 143674 files and directories currently installed.)
Preparing to unpack .../libc-bin_2.31-0ubuntu9.2_amd64.deb ...
Unpacking libc-bin:amd64 (2.31-0ubuntu9.2) over (2.31-0ubuntu9.2) ...
Preparing to unpack .../libc6_2.31-0ubuntu9.2_amd64.deb ...
Unpacking libc6:amd64 (2.31-0ubuntu9.2) over (2.31-0ubuntu9.2) ...
Setting up libc6:amd64 (2.31-0ubuntu9.2) ...
(Reading database ... 143831 files and directories currently installed.)
Preparing to unpack .../0-python3.8_3.8.10-0ubuntu1-20.04.6_amd64.deb ...
Unpacking python3.8 (3.8.10-0ubuntu1-20.04.6) over (3.8.10-0ubuntu1-20.04.2) ...
Preparing to unpack .../1-libpython3.8_3.8.10-0ubuntu1-20.04.6_amd64.deb ...
Unpacking libpython3.8:amd64 (3.8.10-0ubuntu1-20.04.6) over (3.8.10-0ubuntu1-20.04.2) ...
Preparing to unpack .../2-libpython3.8-stdlib_3.8.10-0ubuntu1-20.04.6_amd64.deb ...
Unpacking libpython3.8-stdlib:amd64 (3.8.10-0ubuntu1-20.04.6) over (3.8.10-0ubuntu1-20.04.2) ...
Preparing to unpack .../3-python3.8-minimal_3.8.10-0ubuntu1-20.04.6_amd64.deb ...
Unpacking python3.8-minimal:amd64 (3.8.10-0ubuntu1-20.04.6) over (3.8.10-0ubuntu1-20.04.2) ...
Preparing to unpack .../4-libpython3.8-minimal_3.8.10-0ubuntu1-20.04.6_amd64.deb ...
Unpacking libpython3.8-minimal:amd64 (3.8.10-0ubuntu1-20.04.6) over (3.8.10-0ubuntu1-20.04.2) ...
Preparing to unpack .../5-libexpat1_2.2.9-1ubuntu0.6_amd64.deb ...
Unpacking libexpat1:amd64 (2.2.9-1ubuntu0.6) over (2.2.9-1ubuntu0.2) ...
Preparing to unpack .../6-zlib1g_1:1.2.11-dfsg-2ubuntu1.5_amd64.deb ...
Unpacking zlib1g:amd64 (1:1.2.11-dfsg-2ubuntu1.5) over (1:1.2.11-dfsg-2ubuntu1.2) ...
Setting up zlib1g:amd64 (1:1.2.11-dfsg-2ubuntu1.5) ...
(Reading database ... 143831 files and directories currently installed.)
Preparing to unpack .../00-python3-pkg-resources_45.2.0-1ubuntu0.1_all.deb ...
Unpacking python3-pkg-resources (45.2.0-1ubuntu0.1) over (45.2.0-1) ...
Selecting previously unselected package binutils-common:amd64.
Preparing to unpack .../01-binutils-common_2.34-0ubuntu1.4_amd64.deb ...
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osboxes@osboxes: ~/nodejs/nodejs
Setting up libpython3.8-minimal:amd64 (3.8.10-0ubuntu1-20.04.6) ...
Setting up python3-setuptools (45.2.0-1ubuntu1.1) ...
Setting up libalgorithm-diff-perl (1.19.03-2) ...
Setting up binutils-common:amd64 (2.34-0ubuntu1.4) ...
Setting up linux-libc-dev:amd64 (5.4.0-139.156) ...
Setting up libctf-nobfd:amd64 (2.34-0ubuntu1.4) ...
Setting up python3-wheel (0.34.2-1ubuntu1.1) ...
Setting up libfakeroot:amd64 (1.24-1) ...
Setting up libc6-dbg:amd64 (2.31-0ubuntu9.9) ...
Setting up fakeroot (1.24-1) ...
update-alternatives: using /usr/bin/fakeroot-sysv to provide /usr/bin/fakeroot (fakeroot) in auto mode
Setting up make (4.2.1-1.2) ...
Setting up libquadmath0:amd64 (10.3.0-1ubuntu1-20.04) ...
Setting up libatomic1:amd64 (10.3.0-1ubuntu1-20.04) ...
Setting up libdpkg-perl (1.19.7ubuntu1.2) ...
Setting up libasan1:amd64 (10.3.0-1ubuntu1-20.04) ...
Setting up python3.8-minimal (3.8.10-0ubuntu1-20.04.6) ...
Setting up libcrypt-dev:amd64 (1:4.4.18-1ubuntu4) ...
Setting up python3-pip-whl (20.0.2-1ubuntu1.2) ...
Setting up libbinutils:amd64 (2.34-0ubuntu1.4) ...
Setting up libpython3.8-stdlib:amd64 (3.8.10-0ubuntu1-20.04.6) ...
Setting up libc-dev-bin (2.31-0ubuntu9.9) ...
Setting up python3.8 (3.8.10-0ubuntu1-20.04.6) ...
Setting up libalgorithm-diff-xs-perl (0.04-6) ...
Setting up liblsan0:amd64 (10.3.0-1ubuntu1-20.04) ...
Setting up libitm1:amd64 (10.3.0-1ubuntu1-20.04) ...
Setting up gcc-9-base:amd64 (9.4.0-1ubuntu1-20.04.1) ...
Setting up libalgorithm-merge-perl (0.08-3) ...
Setting up libtsan0:amd64 (10.3.0-1ubuntu1-20.04) ...
Setting up libc6rs:amd64 (2.34-0ubuntu1.4) ...
Setting up libasan5:amd64 (9.4.0-1ubuntu1-20.04.1) ...
Setting up libpython3.8:amd64 (3.8.10-0ubuntu1-20.04.6) ...
Setting up python3-pip (20.0.2-1ubuntu1.2) ...
Setting up gcc-9 (9.4.0-1ubuntu1-20.04.1) ...
Setting up libc6-dev:amd64 (2.31-0ubuntu9.9) ...
Setting up binutils-x86-64-linux-gnu (2.34-0ubuntu1.4) ...
Setting up binutils (2.34-0ubuntu1.4) ...
Setting up dpkg-dev (1.19.7ubuntu1.2) ...
Setting up libc6c-9-dev:amd64 (9.4.0-1ubuntu1-20.04.1) ...
Setting up libexpat1-dev:amd64 (2.2.9-1ubuntu0.6) ...
Setting up libpython3.8-dev:amd64 (3.8.10-0ubuntu1-20.04.6) ...
Setting up zlib1g-dev:amd64 (1:1.2.11.dfsg-1ubuntu1.5) ...
Setting up gcc-9 (9.4.0-1ubuntu1-20.04.1) ...
Setting up libpython3-dev:amd64 (3.8.2-0ubuntu2) ...
Setting up libstdc++-9-dev:amd64 (9.4.0-1ubuntu1-20.04.1) ...
Setting up gcc (4:9.3.0-1ubuntu2) ...
Setting up g++ (9.4.0-1ubuntu1-20.04.1) ...
Setting up python3.8-dev (3.8.10-0ubuntu1-20.04.6) ...
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osboxes@osboxes: ~/nodejs/nodejs
Setting up build-essential (12.0ubuntu1.1) ...
Setting up python3-dev (3.8.2-0ubuntu2) ...
Processing triggers for nls-support (3.04ubuntu1) ...
Processing triggers for gnome-menus (3.36.0-1ubuntu1) ...
Processing triggers for libc-bin (2.31-0ubuntu9.2) ...
Processing triggers for man-db (2.9.1-1) ...
Processing triggers for desktop-file-utils (0.24-1ubuntu1) ...
osboxes@osboxes: ~/nodejs/nodejs$ pip --version
pip 20.0.2 from /usr/lib/python3/dist-packages/pip (python 3.8)
osboxes@osboxes: ~/nodejs/nodejs$ chmod +x deploy.sh
osboxes@osboxes: ~/nodejs/nodejs$ ls -l
total 40
-rw-rw-r-- 1 osboxes osboxes 0 Feb 19 12:08 checkstatus.sh
-rwxr-xr-x 1 osboxes osboxes 168 Feb 19 12:34 deploy.sh
-rw-rw-r-- 1 osboxes osboxes 370 Feb 19 12:04 Dockerfile
-rw-rw-r-- 1 osboxes osboxes 222 Feb 19 12:04 index.js
drwxr-xr-x 59 osboxes osboxes 4096 Feb 19 12:04 node_modules
-rw-rw-r-- 1 osboxes osboxes 270 Feb 19 12:04 package.json
-rw-rw-r-- 1 osboxes osboxes 17908 Feb 19 12:04 package-lock.json
-rw-rw-r-- 1 osboxes osboxes 0 Feb 19 12:08 test.sh
osboxes@osboxes: ~/nodejs/nodejs$ nano checkstatus.sh
osboxes@osboxes: ~/nodejs/nodejs$ cat checkstatus.sh
#!/bin/bash

if pgrep -f "python3 app.py" >/dev/null ; then
    echo "Flask server is running"
else
    echo "Flaskserver is not running"
fi

osboxes@osboxes: ~/nodejs/nodejs$ chmod +x checkstatus.sh
osboxes@osboxes: ~/nodejs/nodejs$ ls -l
total 44
-rwxr-xr-x 1 osboxes osboxes 141 Feb 19 12:48 checkstatus.sh
-rwxr-xr-x 1 osboxes osboxes 168 Feb 19 12:34 deploy.sh
-rw-rw-r-- 1 osboxes osboxes 370 Feb 19 12:04 Dockerfile
-rw-rw-r-- 1 osboxes osboxes 222 Feb 19 12:04 index.js
drwxr-xr-x 59 osboxes osboxes 4096 Feb 19 12:04 node_modules
-rw-rw-r-- 1 osboxes osboxes 270 Feb 19 12:04 package.json
-rw-rw-r-- 1 osboxes osboxes 17908 Feb 19 12:04 package-lock.json
-rw-rw-r-- 1 osboxes osboxes 0 Feb 19 12:08 test.sh
osboxes@osboxes: ~/nodejs/nodejs$ crontab -e
no crontab for osboxes - using an empty one

Select an editor. To change later, run 'select-editor'.
 1. /bin/nano  <----- easiest
 2. /usr/bin/vim.tiny
 3. /bin/ed
```

```
osboxes@osboxes: ~/nodejs/nodejs
echo "Flask server is running"
else
echo "Flaskserver is not running"
fi
osboxes@osboxes:~/nodejs/nodejs$ chmod +x checkstatus.sh
osboxes@osboxes:~/nodejs/nodejs$ ls -l
total 44
-rwxr-xr-x 1 osboxes osboxes 141 Feb 19 12:48 checkstatus.sh
-rwxr-xr-x 1 osboxes osboxes 168 Feb 19 12:34 deploy.sh
-rw-rw-r-- 1 osboxes osboxes 376 Feb 19 12:04 Dockerfile
-rw-rw-r-- 1 osboxes osboxes 222 Feb 19 12:04 index.js
drwxr-xr-x 59 osboxes osboxes 4896 Feb 19 12:04 node_modules
-rw-rw-r-- 1 osboxes osboxes 276 Feb 19 12:04 package.json
-rw-rw-r-- 1 osboxes osboxes 17908 Feb 19 12:04 package-lock.json
-rw-rw-r-- 1 osboxes osboxes 0 Feb 19 12:08 test.sh
osboxes@osboxes:~/nodejs/nodejs$ crontab -e
no crontab for osboxes - using an empty one
Select an editor. To change later, run 'select-editor'.
 1. /bin/nano         <---- easiest
 2. /usr/bin/vim.tiny
 3. /bin/ed
Choose 1-3 [1]: 1
crontab: installing new crontab
osboxes@osboxes:~/nodejs/nodejs$ 1
1: command not found
osboxes@osboxes:~/nodejs/nodejs$ crontab -e
crontab: installing new crontab
osboxes@osboxes:~/nodejs/nodejs$ cat deploy.sh
#!/bin/bash
cd /home/osboxes/nodejs/nodejs
git pull
pip install -r requirements.txt
if ! pgrep -f "python3 app.py" > /dev/null; then
  nohup python3 app.py &
fi
osboxes@osboxes:~/nodejs/nodejs$ ls -l
total 52
-rwxr-xr-x 1 osboxes osboxes 67 Feb 19 13:08 checkstatuslog.txt
-rwxr-xr-x 1 osboxes osboxes 141 Feb 19 12:48 checkstatus.sh
-rw-rw-r-- 1 osboxes osboxes 258 Feb 19 13:08 deploylog.txt
-rwxr-xr-x 1 osboxes osboxes 168 Feb 19 12:34 deploy.sh
-rw-rw-r-- 1 osboxes osboxes 376 Feb 19 12:04 Dockerfile
```

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osboxes@osboxes: ~/Desktop/nodejs-activity/nodejs
Requirement already satisfied: MarkupSafe==2.0.1 in /home/osboxes/.local/lib/python3.8/site-pack
ages (from -r requirements.txt (line 5)) (2.0.1)
Requirement already satisfied: Werkzeug==2.0.2 in /home/osboxes/.local/lib/python3.8/site-packag
es (from -r requirements.txt (line 6)) (2.0.2)
Already up to date.
Requirement already satisfied: click==8.0.3 in /home/osboxes/.local/lib/python3.8/site-packages
 (from -r requirements.txt (line 1)) (8.0.3)
Requirement already satisfied: Flask==2.0.2 in /home/osboxes/.local/lib/python3.8/site-packages
 (from -r requirements.txt (line 2)) (2.0.2)
Requirement already satisfied: itsdangerous==2.0.1 in /home/osboxes/.local/lib/python3.8/site-pa
ckages (from -r requirements.txt (line 3)) (2.0.1)
Requirement already satisfied: Jinja2==3.0.2 in /home/osboxes/.local/lib/python3.8/site-packages
 (from -r requirements.txt (line 4)) (3.0.2)
Requirement already satisfied: MarkupSafe==2.0.1 in /home/osboxes/.local/lib/python3.8/site-pack
ages (from -r requirements.txt (line 5)) (2.0.1)
Requirement already satisfied: Werkzeug==2.0.2 in /home/osboxes/.local/lib/python3.8/site-packag
es (from -r requirements.txt (line 6)) (2.0.2)
Already up to date.
Requirement already satisfied: click==8.0.3 in /home/osboxes/.local/lib/python3.8/site-packages
 (from -r requirements.txt (line 1)) (8.0.3)
Requirement already satisfied: Flask==2.0.2 in /home/osboxes/.local/lib/python3.8/site-packages
 (from -r requirements.txt (line 2)) (2.0.2)
Requirement already satisfied: itsdangerous==2.0.1 in /home/osboxes/.local/lib/python3.8/site-pa
ckages (from -r requirements.txt (line 3)) (2.0.1)
Requirement already satisfied: Jinja2==3.0.2 in /home/osboxes/.local/lib/python3.8/site-packages
 (from -r requirements.txt (line 4)) (3.0.2)
Requirement already satisfied: MarkupSafe==2.0.1 in /home/osboxes/.local/lib/python3.8/site-pack
ages (from -r requirements.txt (line 5)) (2.0.1)
Requirement already satisfied: Werkzeug==2.0.2 in /home/osboxes/.local/lib/python3.8/site-packag
es (from -r requirements.txt (line 6)) (2.0.2)
osboxes@osboxes:~/Desktop/nodejs-activity/nodejs$ cat checkstatuslog.txt
Flask server is running
Flask server is running
Flask server is running
Flask server is running
osboxes@osboxes:~/Desktop/nodejs-activity/nodejs$
osboxes@osboxes:~/Desktop/nodejs-activity/nodejs$
osboxes@osboxes:~/Desktop/nodejs-activity/nodejs$
```

