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NIM : 18050623024

PRODI : D3 MANAJEMEN INFORMATIKA 2018

UTS JARINGAN KOMPUTER LANJUT SEMESTER GENAP 2020

Ikuti tutorial berikut ini kemudian buat dokumentasi dengan disertai screenshoot selama melakukan praktek.

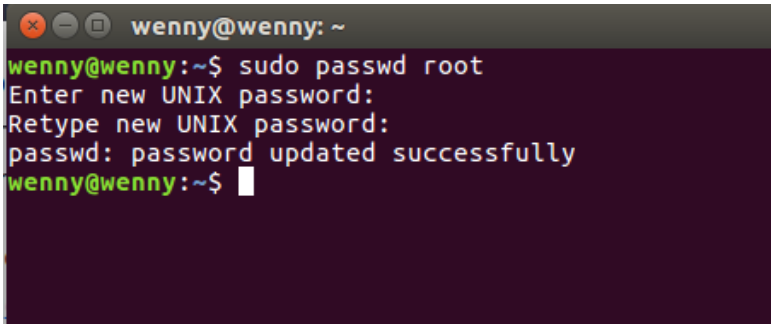
1. https://linuxize.com/post/how-to-enable-and-disable-root-user-account-in-ubuntu/
2. https://linuxize.com/post/how-to-install-and-configure-samba-on-ubuntu-18-04/
3. https://linuxize.com/post/how-to-setup-ftp-server-with-vsftpd-on-ubuntu-18-04/
4. https://linuxize.com/post/how-to-install-node-js-on-ubuntu-18.04/

hasil dokumentasi dikumpulkan melalui laman penugasan. hasil dari praktek ini sekaligus digunakan sebagai penilaian UTS.

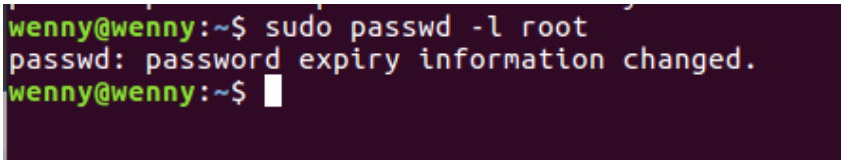
1. How to Enable and Disable Root User Account in Ubuntu

https://linuxize.com/post/how-to-enable-and-disable-root-user-account-in-ubuntu/

a. Enable Root



b. Disable Users



2. How to Install and Configure Samba on Ubuntu 16.04

https://linuxize.com/post/how-to-install-and-configure-samba-on-ubuntu-18-04/

We'll create the following Samba shares and users.

Users:

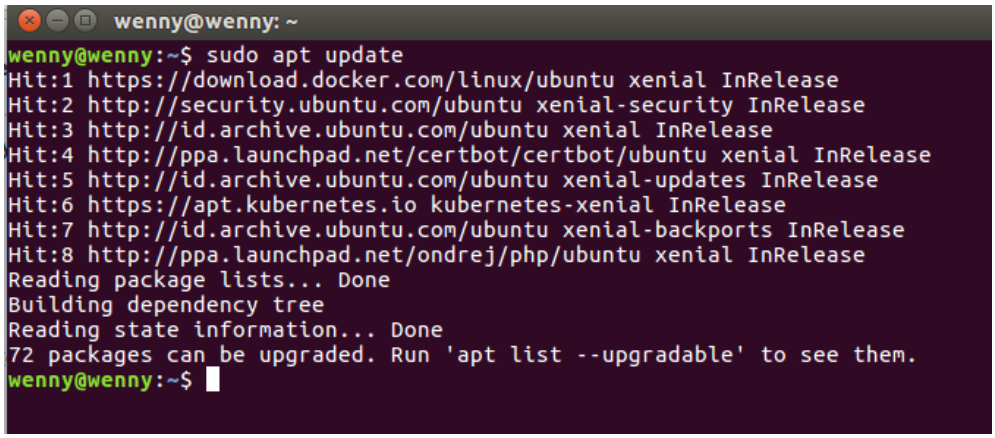
- **sadmin** - An administrative user with read and write access to all shares.
- **hallowen** - A regular user with its own private file share.

Shares:

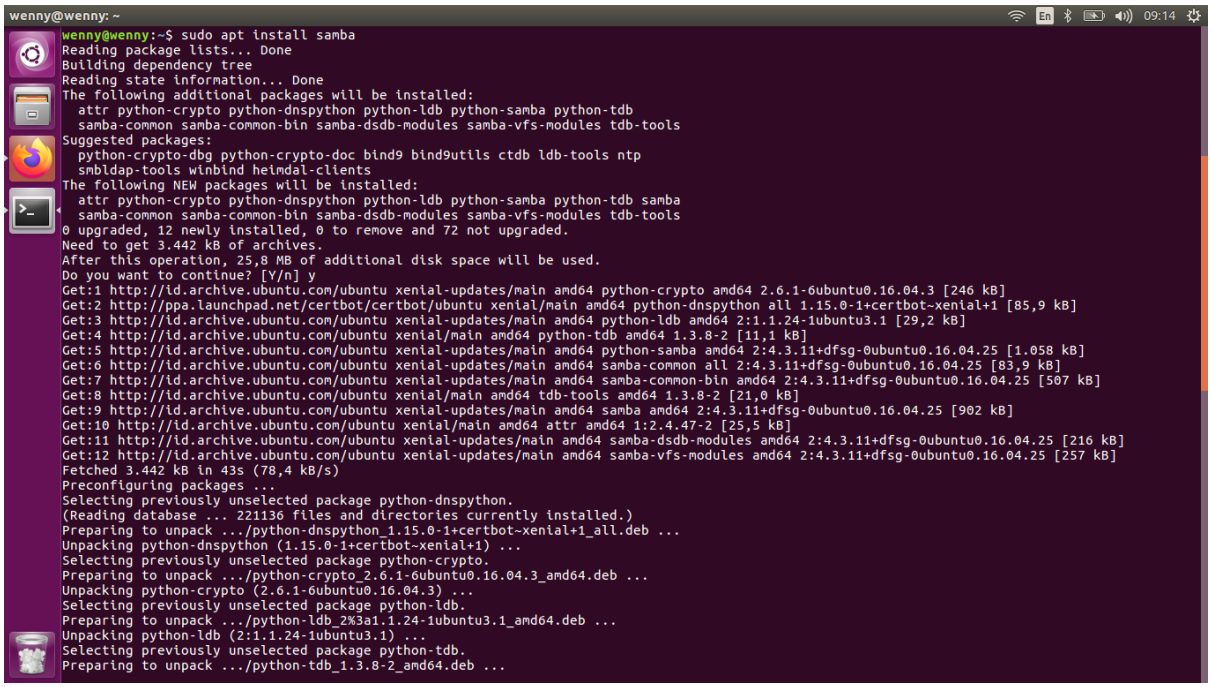
- **users** - This share will be accessible with read/write permissions by all users.
- **hallowen** - This share will be accessible with read/write permissions only by users josh and sadmin.

a. **Installing Samba on Ubuntu**

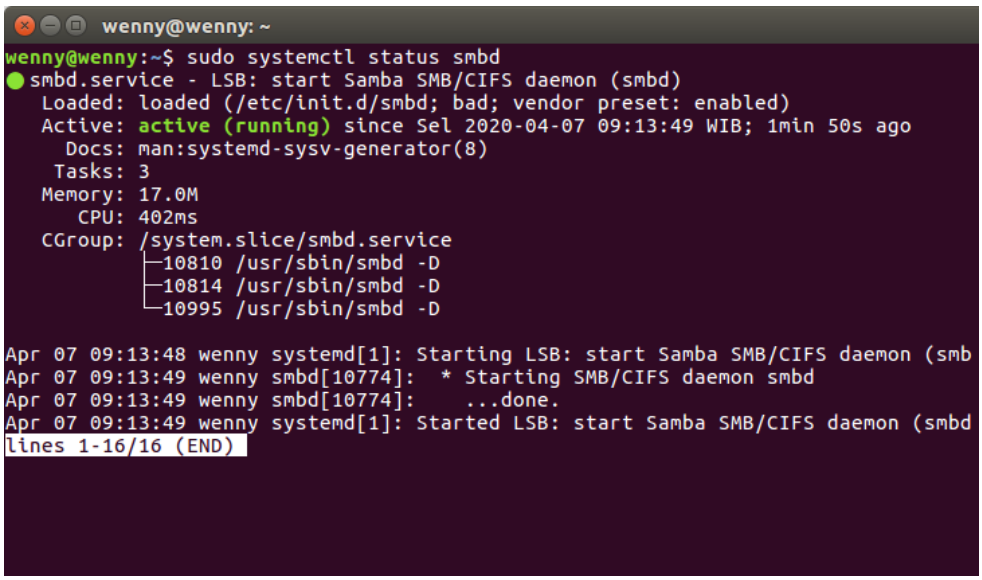
Start by updating the apt packages index:



Install the Samba package with the following command:

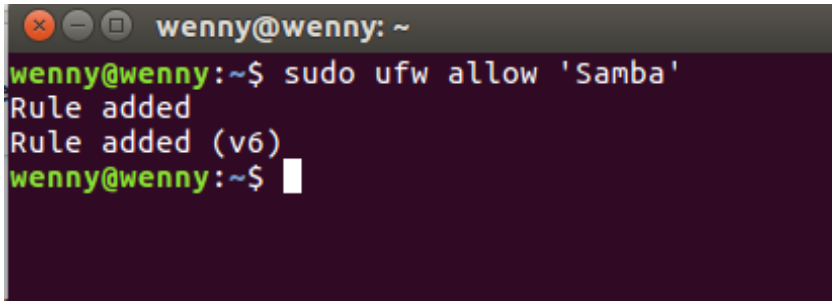


Once the installation is completed, the Samba service will start automatically. To check whether the Samba server is running, type:



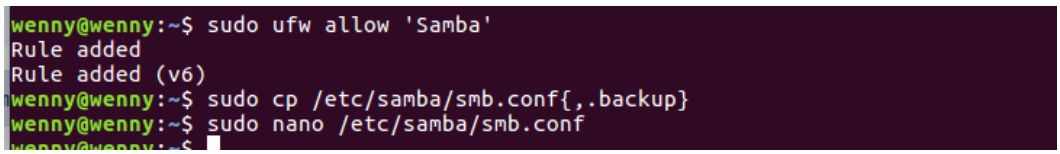
b. Configuring firewall

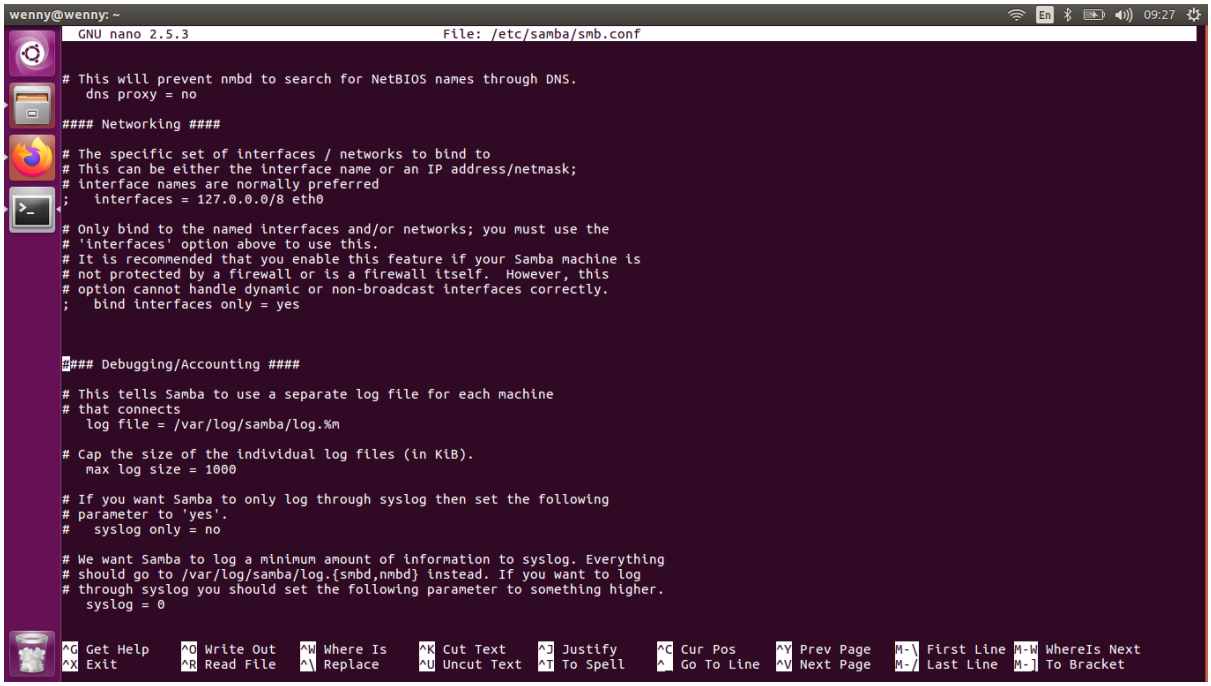
Assuming you are using [UFW] to manage your firewall, you can open the ports by enabling the 'Samba' profile:

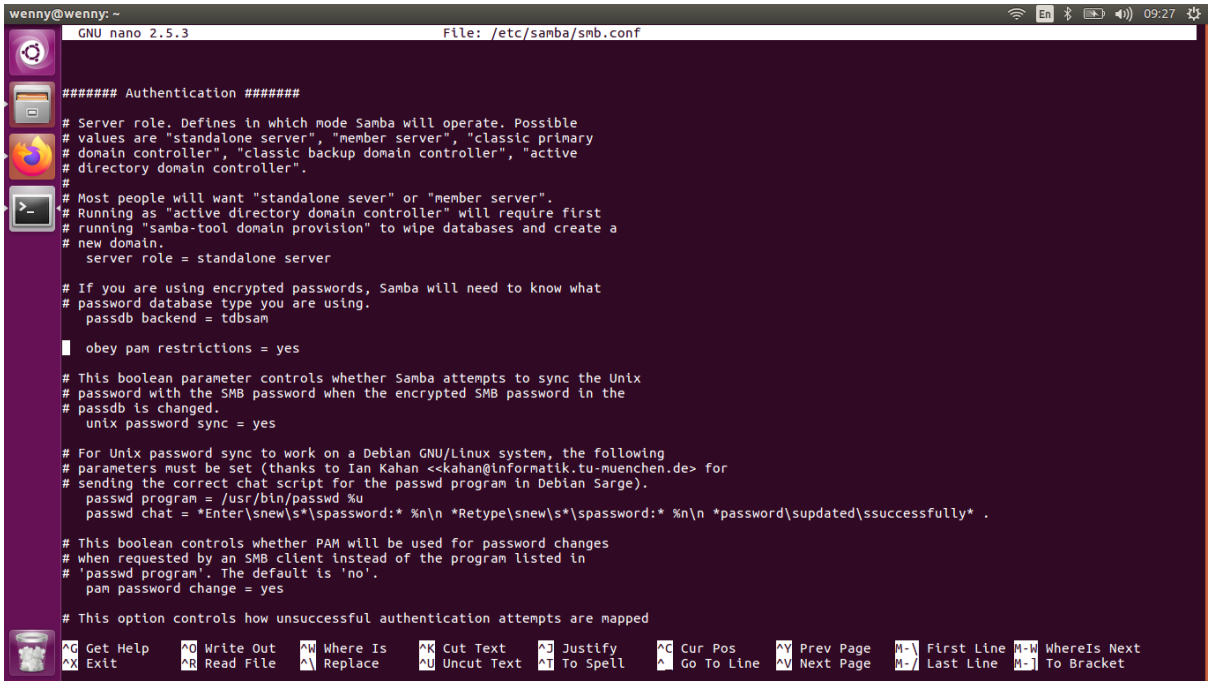


c. Configuring Global Samba Options

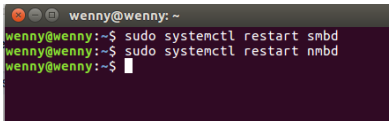
Before making changes to the Samba configuration file, create a backup for future reference purposes:



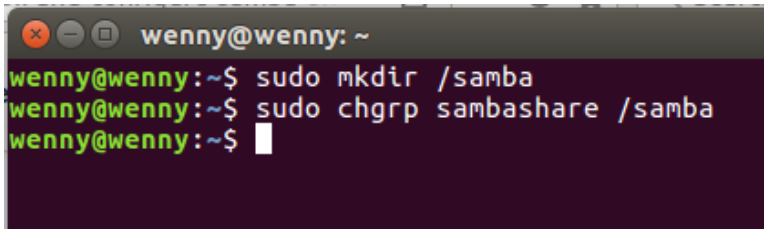




Finally, restart the Samba services with:



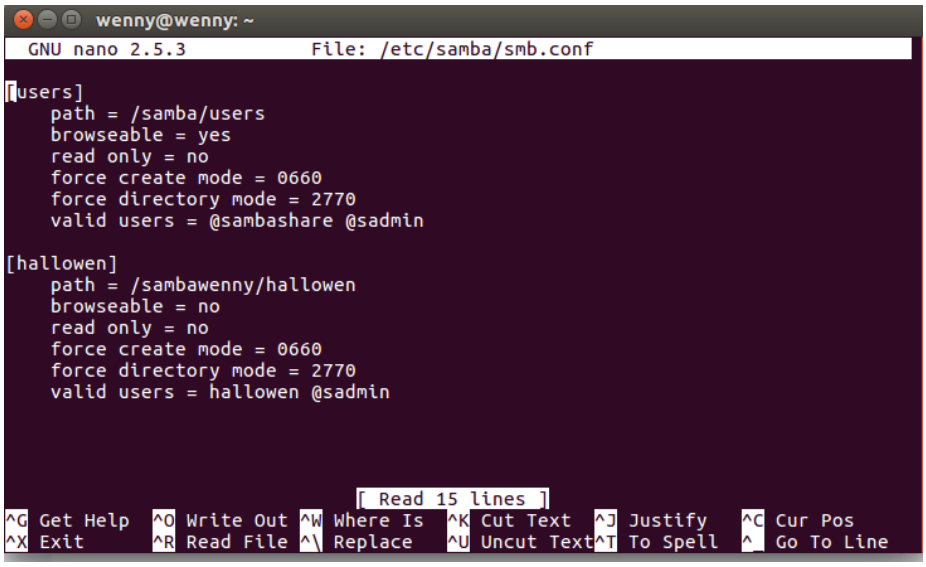
d. Creating Samba Users and Directory Structure



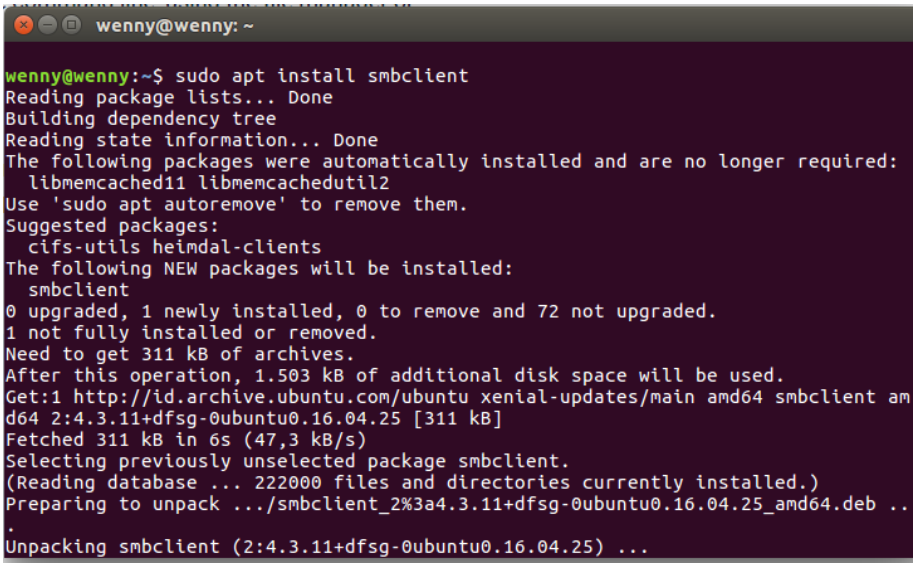
e. **Creating Samba Users**

```
wenny@wenny:~$ sudo mkdir /hallowen/wenny
wenny@wenny:~$ sudo chown wenny:sambashare /hallowen/wenny
wenny@wenny:~$ sudo chmod 2770 /hallowen/wenny
wenny@wenny:~$ sudo smbpasswd -e wenny
Failed to find user wenny in passdb backend.
wenny@wenny:~$ sudo smbpasswd -a wenny
New SMB password:
Retype new SMB password:
Added user wenny.
wenny@wenny:~$ sudo smbpasswd -e wenny
Enabled user wenny.
wenny@wenny:~$ sudo useradd -M -d /hallowen/users -s /usr/sbin/nologin -G sambashare sadmin
useradd: failure while writing changes to /etc/passwd
wenny@wenny:~$ sudo smbpasswd -a sadmin
New SMB password:
Retype new SMB password:
Failed to add entry for user sadmin.
wenny@wenny:~$
```

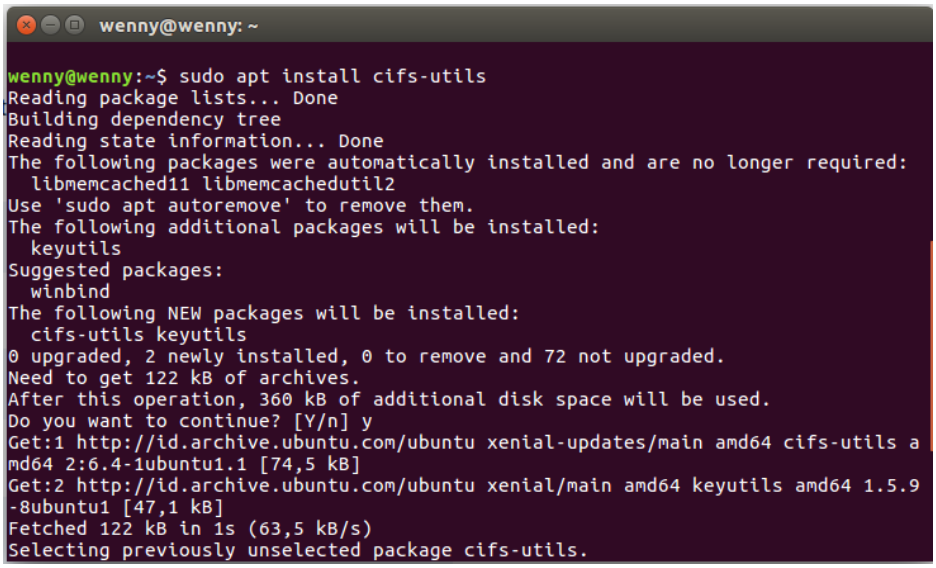
f. **Configuring Samba Shares**



g. **Using the smbclient client**

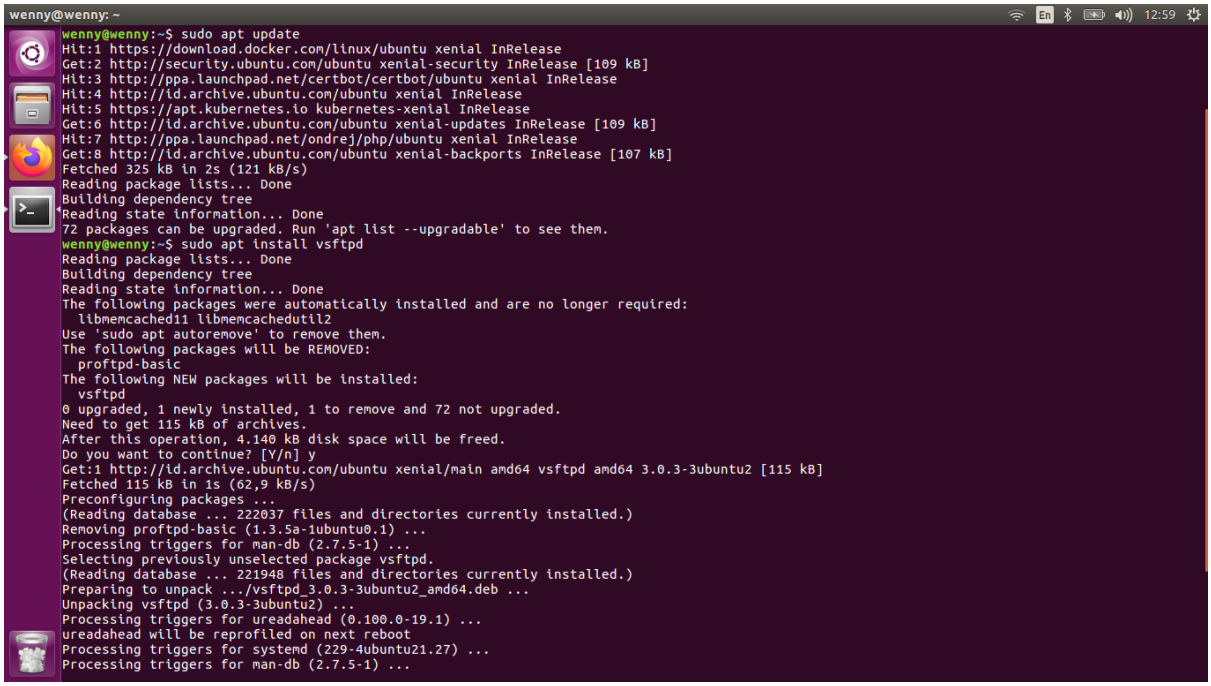


h. **Mounting the Samba shared**



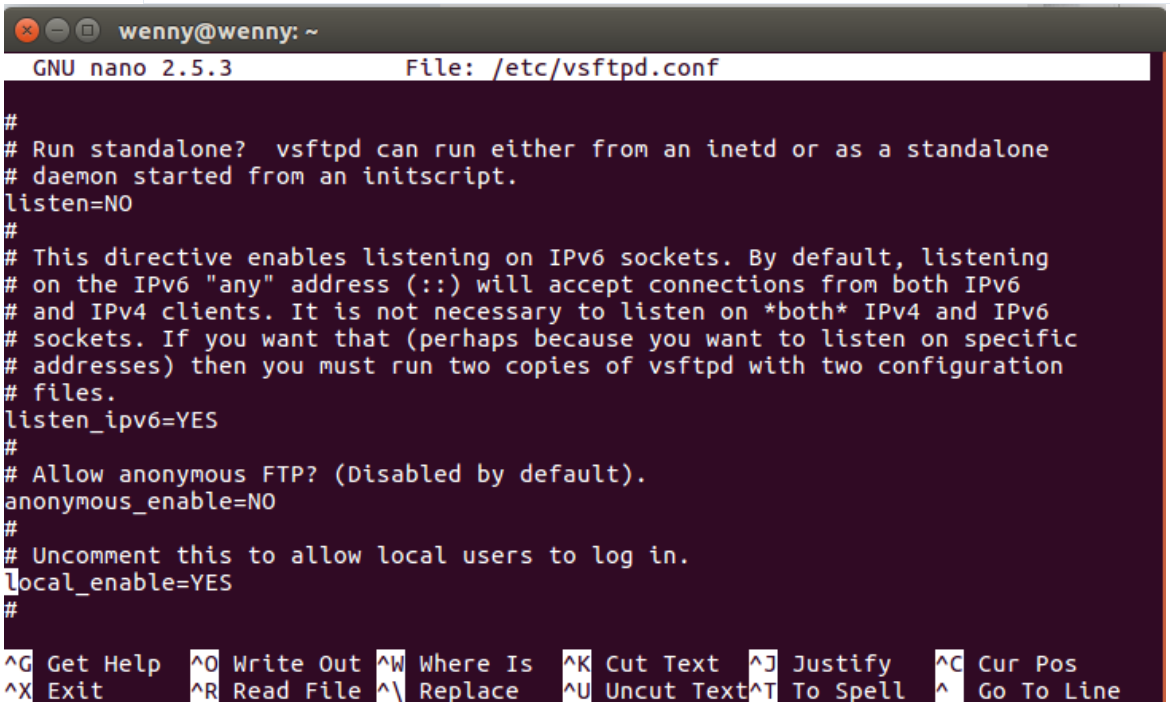
3. How to Setup FTP Server with VSFTPD on Ubuntu 16.04

Installing vsftpd on Ubuntu 16.04

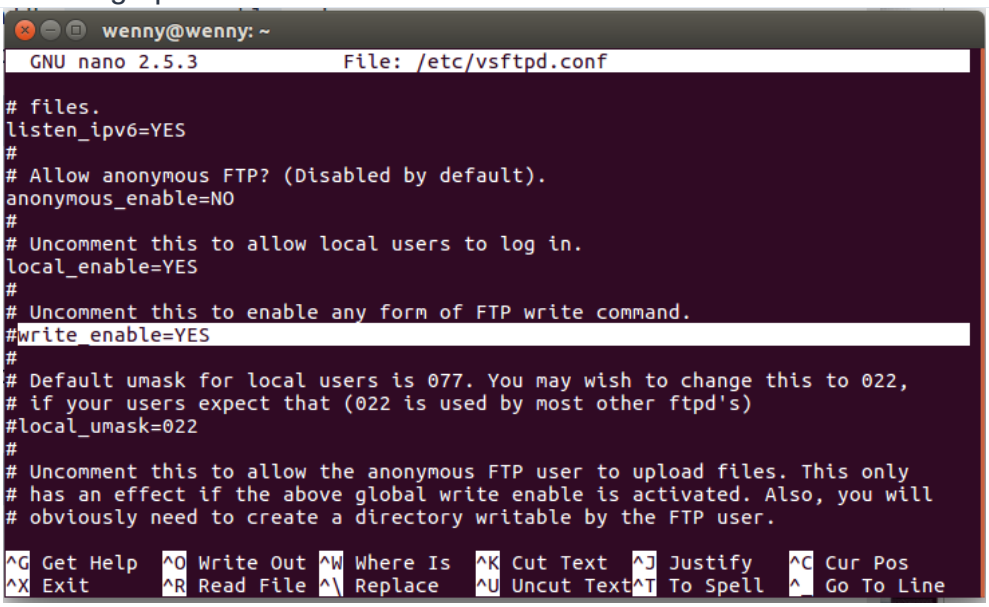


Configuring vsftpd

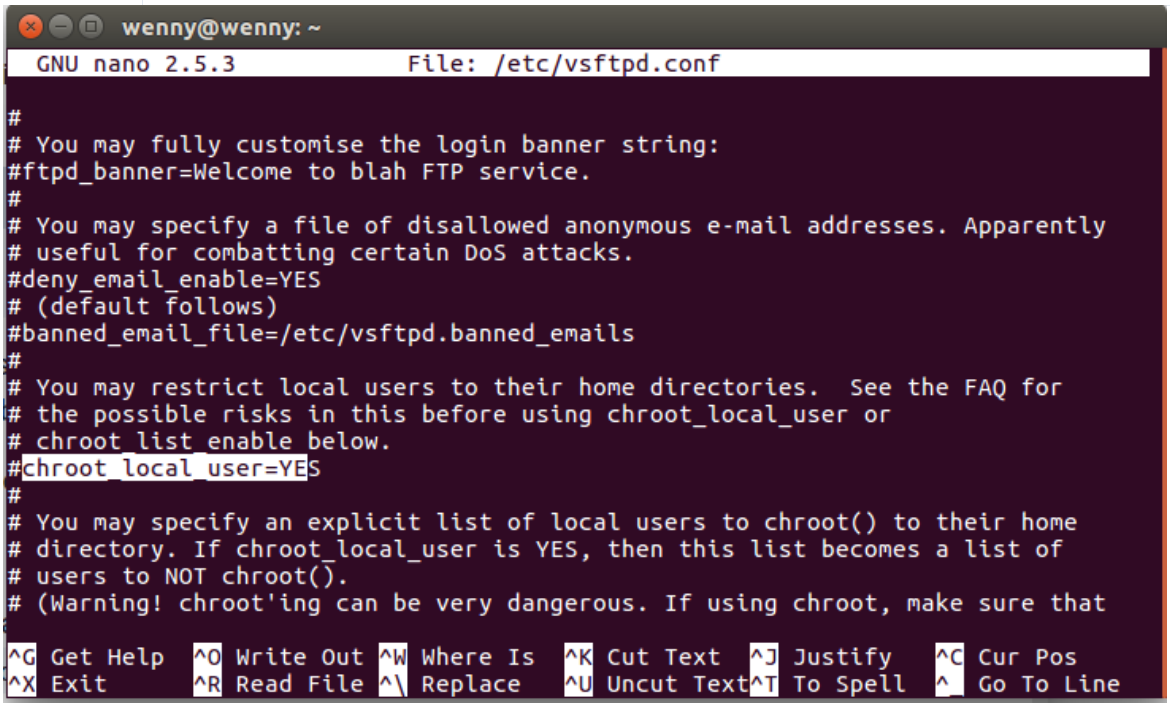
1. FTP Access



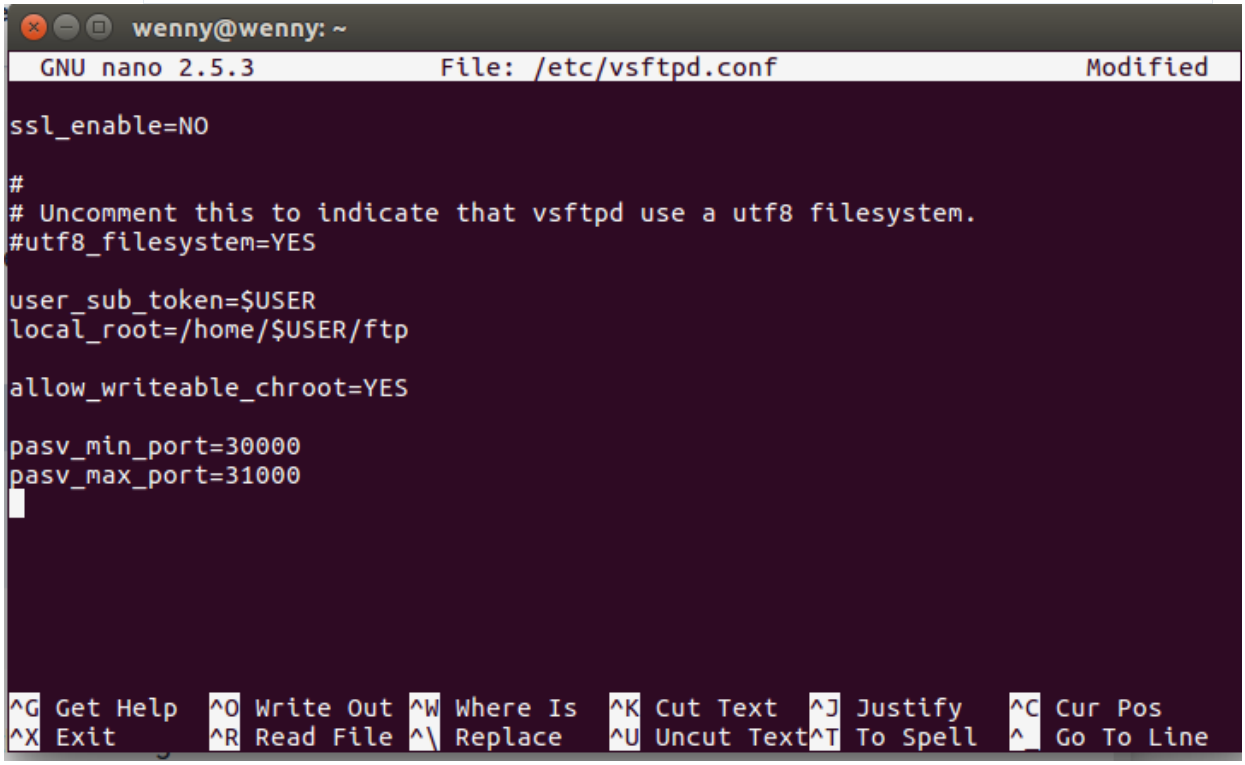
2. Enabling uploads



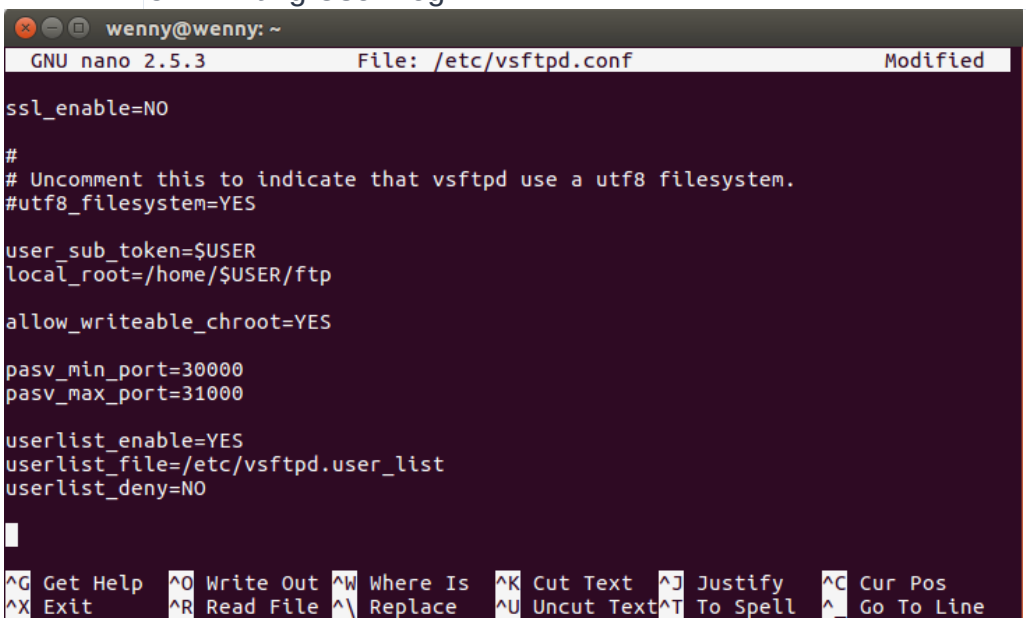
3. Chroot Jail



4. Passive FTP Connections



5. Limiting User Login



6. Securing Transmissions with SSL/TLS

```
wenny@wenny: ~
wenny@wenny:~$ sudo openssl req -x509 -nodes -days 3650 -newkey rsa:2048 -keyout
 /etc/ssl/private/vsftpd.pem -out /etc/ssl/private/vsftpd.pem
Generating a 2048 bit RSA private key
.....................................+++++
.....................................................+++++
writing new private key to '/etc/ssl/private/vsftpd.pem'
-----
You are about to be asked to enter information that will be incorporated
into your certificate request.
What you are about to enter is what is called a Distinguished Name or a DN.
There are quite a few fields but you can leave some blank
For some fields there will be a default value,
If you enter '.', the field will be left blank.
-----
Country Name (2 letter code) [AU]:62
State or Province Name (full name) [Some-State]:1
Locality Name (eg, city) []:1
Organization Name (eg, company) [Internet Widgits Pty Ltd]:1
Organizational Unit Name (eg, section) []:
Common Name (e.g. server FQDN or YOUR name) []:
Email Address []:
wenny@wenny:~$
```

Opening the Firewall

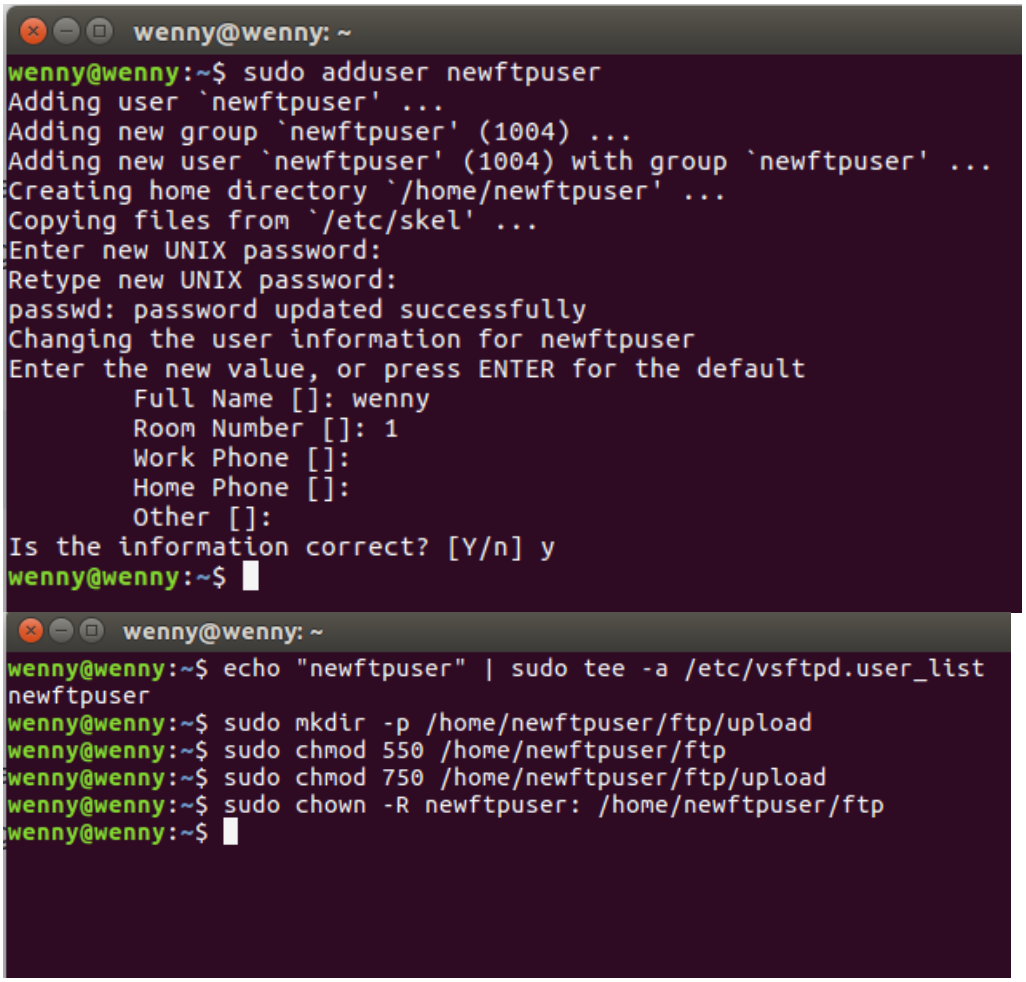
If you are running an [UFW firewall](#) you'll need to allow FTP traffic.

```
wenny@wenny: ~
wenny@wenny:~$ sudo systemctl restart vsftpd
wenny@wenny:~$ sudo ufw allow 20:21/tcp
Rule added
Rule added (v6)
wenny@wenny:~$ sudo ufw allow 30000:31000/tcp
Rule added
Rule added (v6)
wenny@wenny:~$
```

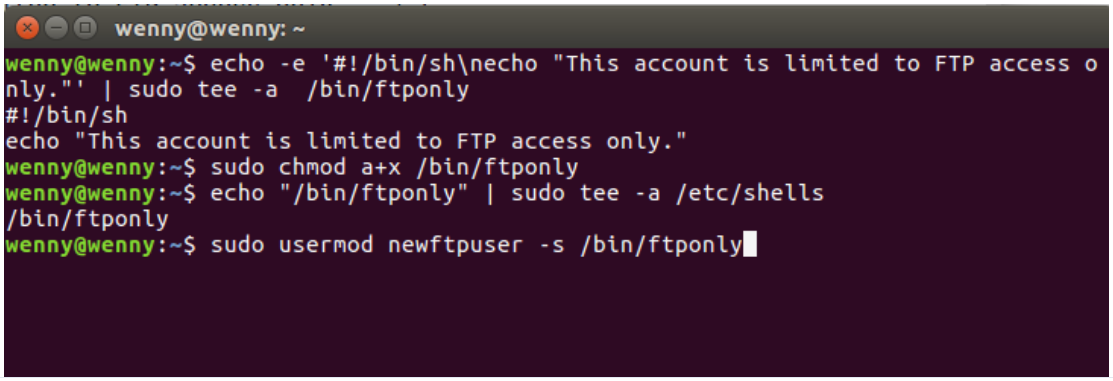
```
wenny@wenny: ~
Rule added
Rule added (v6)
wenny@wenny:~$ sudo ufw allow OpenSSH
Rule added
Rule added (v6)
wenny@wenny:~$ sudo ufw disable
Firewall stopped and disabled on system startup
wenny@wenny:~$ sudo ufw enable
Firewall is active and enabled on system startup
wenny@wenny:~$ sudo ufw status
Status: active

To                         Action      From
--                         ------      ----
Samba                      ALLOW       Anywhere
20:21/tcp                  ALLOW       Anywhere
30000:31000/tcp            ALLOW       Anywhere
OpenSSH                    ALLOW       Anywhere
Samba (v6)                 ALLOW       Anywhere (v6)
20:21/tcp (v6)             ALLOW       Anywhere (v6)
30000:31000/tcp (v6)       ALLOW       Anywhere (v6)
OpenSSH (v6)               ALLOW       Anywhere (v6)
```

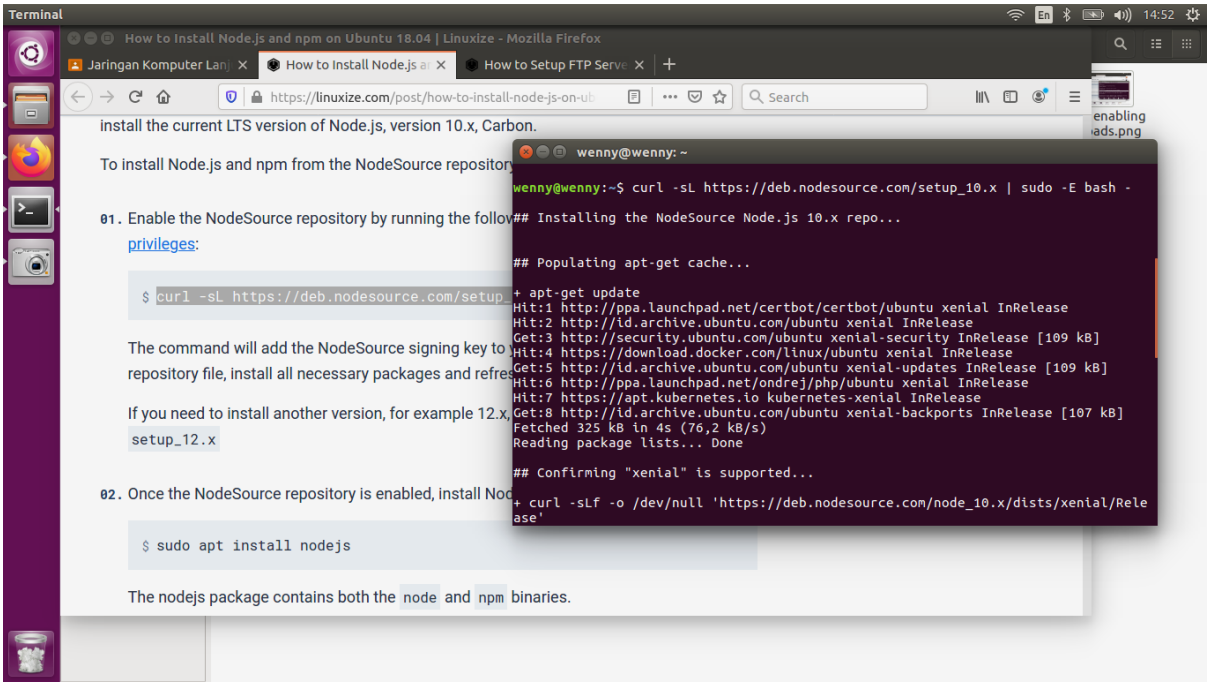
Creating FTP User

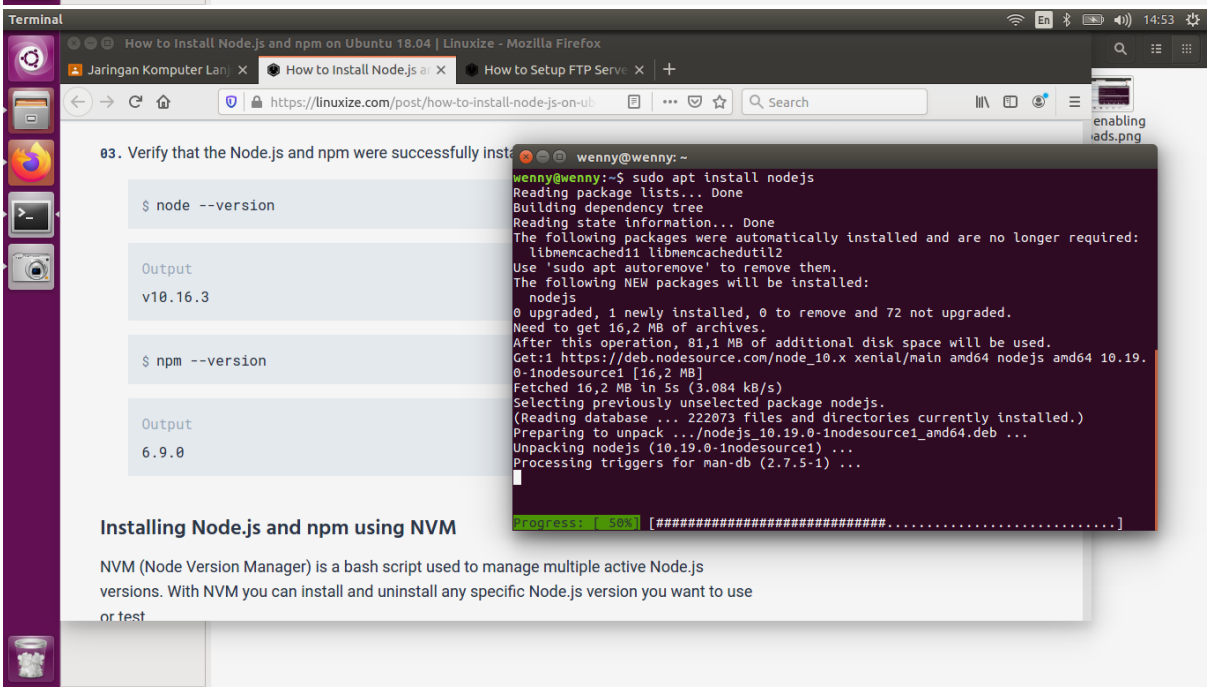


Disabling Shell Access



4. How to Install Node.js and npm on Ubuntu 16.04


Terminal
14:52
How to Install Node.js and npm on Ubuntu 18.04 | Linuxize - Mozilla Firefox
Jaringan Komputer Lanj
How to Install Node.js a
How to Setup FTP Serve
https://linuxize.com/post/how-to-install-node-js-on-ub
Search
install the current LTS version of Node.js, version 10.x, Carbon.
To install Node.js and npm from the NodeSource repository
01. Enable the NodeSource repository by running the follov
privileges:
$ curl -sL https://deb.nodesource.com/setup_
The command will add the NodeSource signing key to y
repository file, install all necessary packages and refres
If you need to install another version, for example 12.x,
setup_12.x
02. Once the NodeSource repository is enabled, install Nod
$ sudo apt install nodejs
The nodejs package contains both the node and npm binaries.
wenny@wenny: ~
wenny@wenny:~$ curl -sL https://deb.nodesource.com/setup_10.x | sudo -E bash -
Installing the NodeSource Node.js 10.x repo...
Populating apt-get cache...
+ apt-get update
Hit:1 http://ppa.launchpad.net/certbot/certbot/ubuntu xenial InRelease
Hit:2 http://id.archive.ubuntu.com/ubuntu xenial InRelease
Get:3 http://security.ubuntu.com/ubuntu xenial-security InRelease [109 kB]
Hit:4 https://download.docker.com/linux/ubuntu xenial InRelease
Get:5 http://id.archive.ubuntu.com/ubuntu xenial-updates InRelease [109 kB]
Hit:6 http://ppa.launchpad.net/ondrej/php/ubuntu xenial InRelease
Hit:7 https://apt.kubernetes.io kubernetes-xenial InRelease
Get:8 http://id.archive.ubuntu.com/ubuntu xenial-backports InRelease [107 kB]
Fetched 325 kB in 4s (76,2 kB/s)
Reading package lists... Done
Confirming "xenial" is supported...
+ curl -sLf -o /dev/null 'https://deb.nodesource.com/node_10.x/dists/xenial/Release'


Terminal
14:53
How to Install Node.js and npm on Ubuntu 18.04 | Linuxize - Mozilla Firefox
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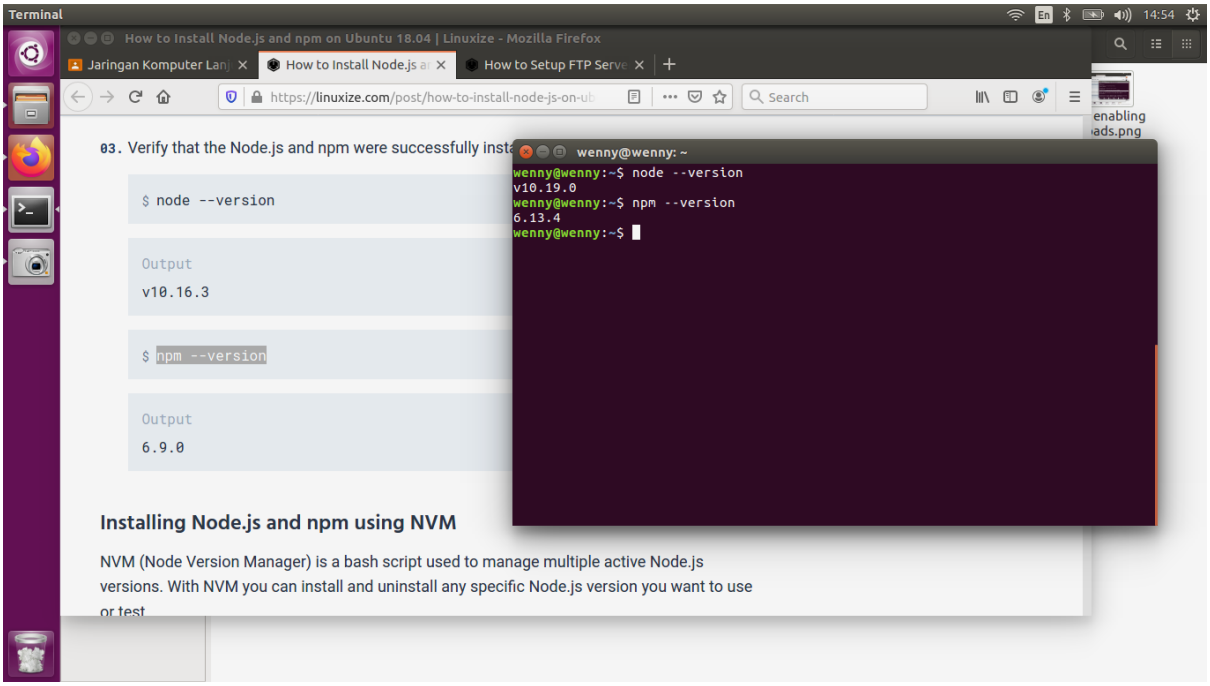
How to Install Node.js a
How to Setup FTP Serve
https://linuxize.com/post/how-to-install-node-js-on-ub
Search
03. Verify that the Node.js and npm were successfully insta
$ node --version
Output
v10.16.3
$ npm --version
Output
6.9.0
Installing Node.js and npm using NVM
NVM (Node Version Manager) is a bash script used to manage multiple active Node.js
versions. With NVM you can install and uninstall any specific Node.js version you want to use
or test
wenny@wenny: ~
wenny@wenny:~$ 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:
libmemcached11 libmemcachedutil2
Use 'sudo apt autoremove' to remove them.
The following NEW packages will be installed:
nodejs
0 upgraded, 1 newly installed, 0 to remove and 72 not upgraded.
Need to get 16,2 MB of archives.
After this operation, 81,1 MB of additional disk space will be used.
Get:1 https://deb.nodesource.com/node_10.x xenial/main amd64 nodejs amd64 10.19.0-1nodesource1 [16,2 MB]
Fetched 16,2 MB in 5s (3.084 kB/s)
Selecting previously unselected package nodejs.
(Reading database ... 222073 files and directories currently installed.)
Preparing to unpack .../nodejs_10.19.0-1nodesource1_amd64.deb ...
Unpacking nodejs (10.19.0-1nodesource1) ...
Processing triggers for man-db (2.7.5-1) ...
Progress: [50%] [#############################.....................]


Terminal
14:54
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Search
enabling
ads.png
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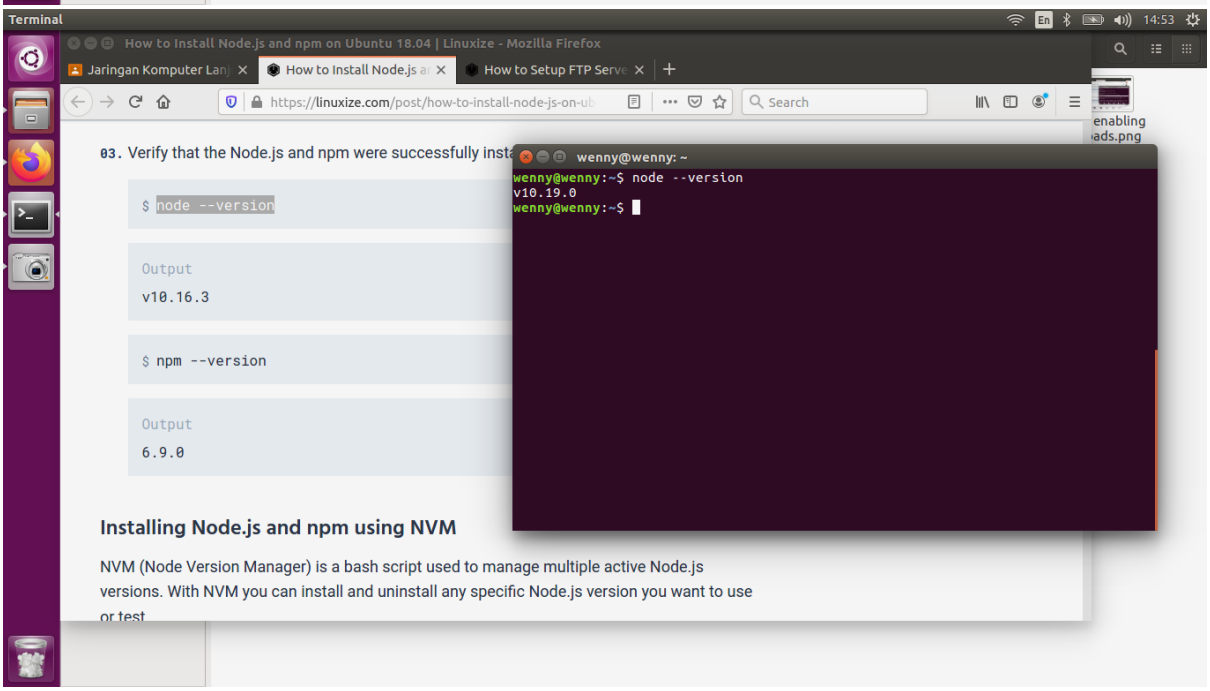
$ node --version
Output
v10.16.3
$ npm --version
Output
6.9.0
wenny@wenny: ~
wenny@wenny:~$ node --version
v10.19.0
wenny@wenny:~$ npm --version
6.13.4
wenny@wenny:~$
Installing Node.js and npm using NVM
NVM (Node Version Manager) is a bash script used to manage multiple active Node.js
versions. With NVM you can install and uninstall any specific Node.js version you want to use
or test


Terminal
14:53
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Search
enabling
ads.png
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$ node --version
Output
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$ npm --version
Output
6.9.0
wenny@wenny: ~
wenny@wenny:~$ node --version
v10.19.0
wenny@wenny:~$
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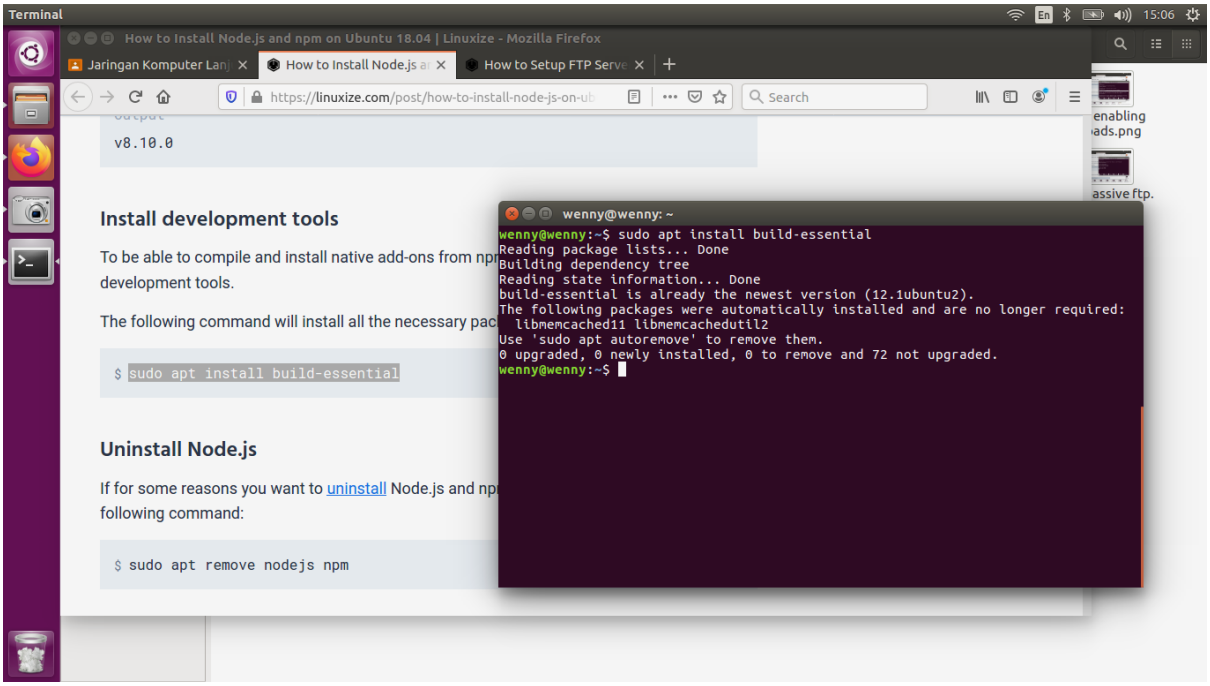
Terminal
15:06
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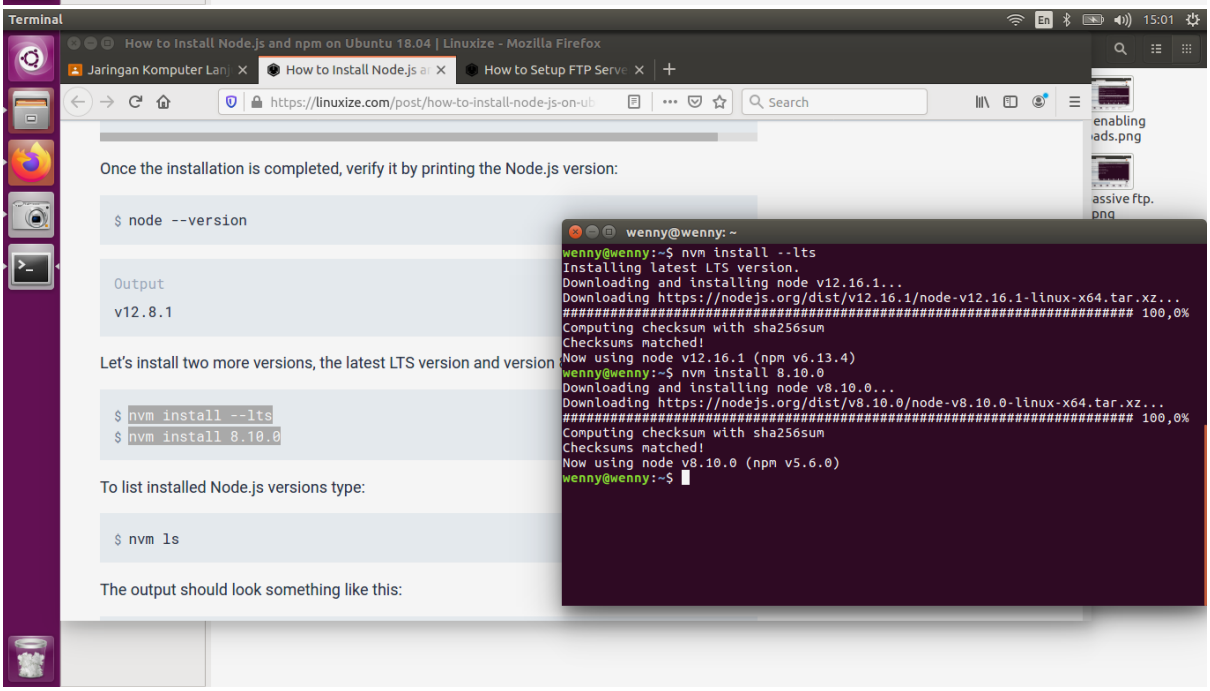
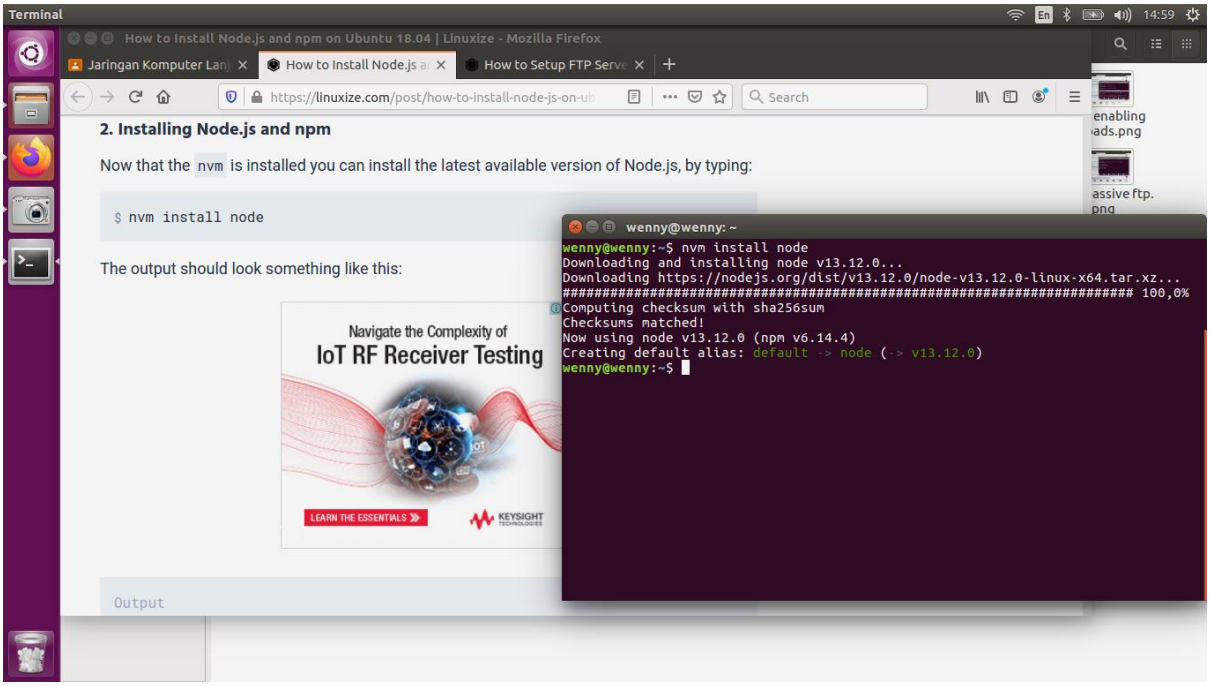
Jaringan Komputer Lanj
How to Install Node.js a
How to Setup FTP Serve
https://linuxize.com/post/how-to-install-node-js-on-ub
Search
v8.10.0
Install development tools
To be able to compile and install native add-ons from npr
development tools.
The following command will install all the necessary pac
$ sudo apt install build-essential
Uninstall Node.js
If for some reasons you want to uninstall Node.js and np
following command:
$ sudo apt remove nodejs npm
wenny@wenny: ~
wenny@wenny:~$ sudo apt install build-essential
Reading package lists... Done
Building dependency tree
Reading state information... Done
build-essential is already the newest version (12.1ubuntu2).
The following packages were automatically installed and are no longer required:
libmemcached11 libmemcachedutil2
Use 'sudo apt autoremove' to remove them.
0 upgraded, 0 newly installed, 0 to remove and 72 not upgraded.
wenny@wenny:~$
enabling
ads.png
assive ftp.


Terminal
15:01
How to Install Node.js and npm on Ubuntu 18.04 | Linuxize - Mozilla Firefox
Jaringan Komputer Lanj
How to Install Node.js a
How to Setup FTP Serve
https://linuxize.com/post/how-to-install-node-js-on-ub
Search
Once the installation is completed, verify it by printing the Node.js version:
$ node --version
Output
v12.8.1
Let's install two more versions, the latest LTS version and version
$ nvm install --lts
$ nvm install 8.10.0
To list installed Node.js versions type:
$ nvm ls
The output should look something like this:
wenny@wenny: ~
wenny@wenny:~$ nvm install --lts
Installing latest LTS version.
Downloading and installing node v12.16.1...
Downloading https://nodejs.org/dist/v12.16.1/node-v12.16.1-linux-x64.tar.xz...
100,0%
Computing checksum with sha256sum
Checksums matched!
Now using node v12.16.1 (npm v6.13.4)
wenny@wenny:~$ nvm install 8.10.0
Downloading and installing node v8.10.0...
Downloading https://nodejs.org/dist/v8.10.0/node-v8.10.0-linux-x64.tar.xz...
100,0%
Computing checksum with sha256sum
Checksums matched!
Now using node v8.10.0 (npm v5.6.0)
wenny@wenny:~$
enabling
ads.png
assive ftp.
png


Terminal
14:59
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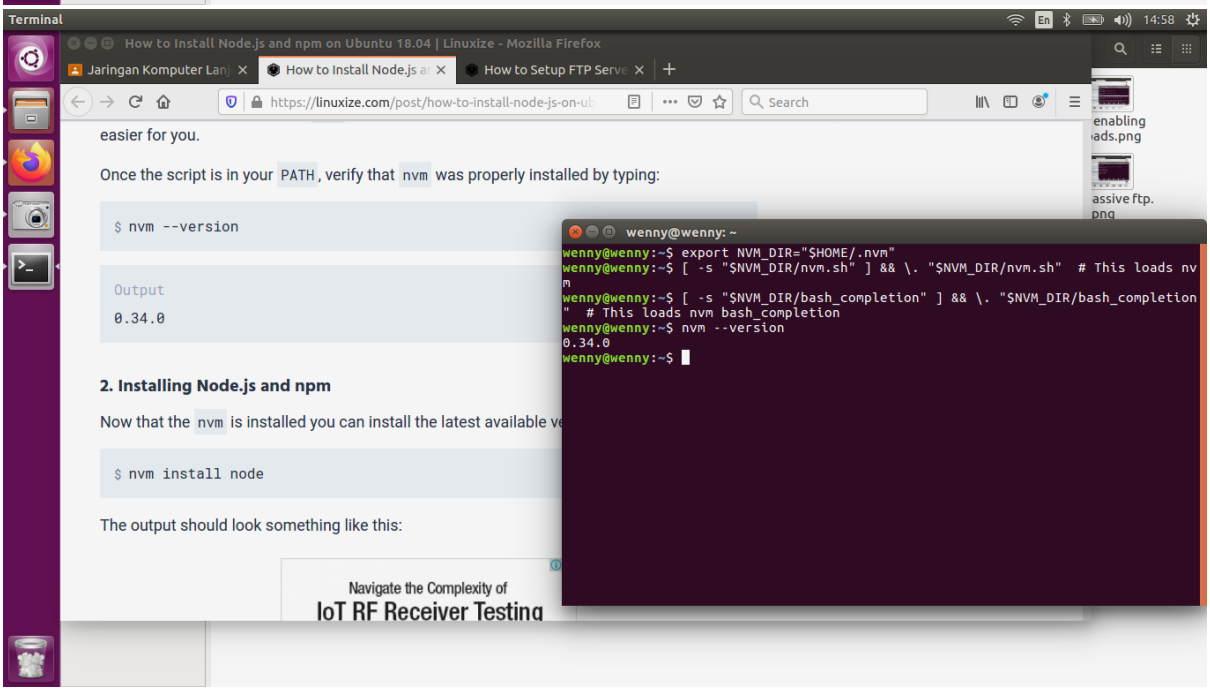
Search
2. Installing Node.js and npm
Now that the nvm is installed you can install the latest available version of Node.js, by typing:
$ nvm install node
The output should look something like this:
Navigate the Complexity of
IoT RF Receiver Testing
LEARN THE ESSENTIALS
KEYSIGHT
Output
wenny@wenny: ~
wenny@wenny:~$ nvm install node
Downloading and installing node v13.12.0...
Downloading https://nodejs.org/dist/v13.12.0/node-v13.12.0-linux-x64.tar.xz...
100,0%
Computing checksum with sha256sum
Checksums matched!
Now using node v13.12.0 (npm v6.14.4)
Creating default alias: default -> node (-> v13.12.0)
wenny@wenny:~$
enabling
ads.png
assive ftp.
png


Terminal
14:58
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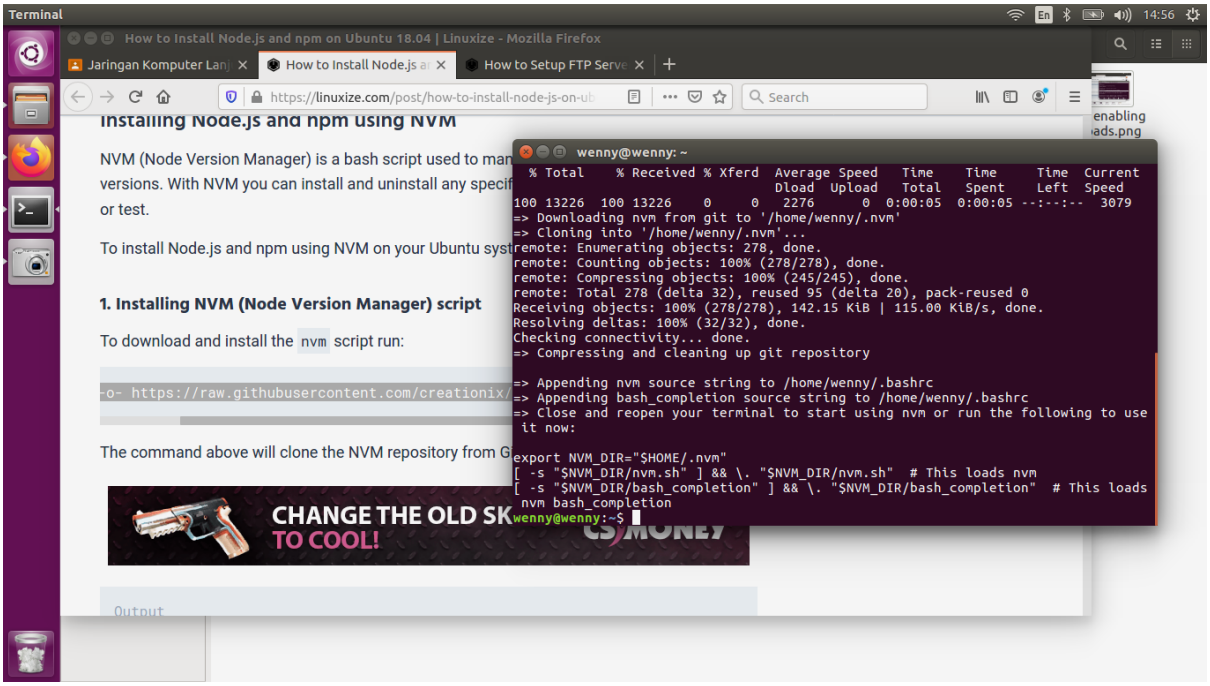
Search
easier for you.
Once the script is in your PATH, verify that nvm was properly installed by typing:
$ nvm --version
Output
0.34.0
2. Installing Node.js and npm
Now that the nvm is installed you can install the latest available ve
$ nvm install node
The output should look something like this:
Navigate the Complexity of
IoT RF Receiver Testing
wenny@wenny: ~
wenny@wenny:~$ export NVM_DIR="$HOME/.nvm"
wenny@wenny:~$ [-s "$NVM_DIR/nvm.sh"] && \. "$NVM_DIR/nvm.sh" # This loads nv
m
wenny@wenny:~$ [-s "$NVM_DIR/bash_completion"] && \. "$NVM_DIR/bash_completion
" # This loads nvm bash_completion
wenny@wenny:~$ nvm --version
0.34.0
wenny@wenny:~$
enabling
ads.png
assive ftp.
png


Terminal
14:56
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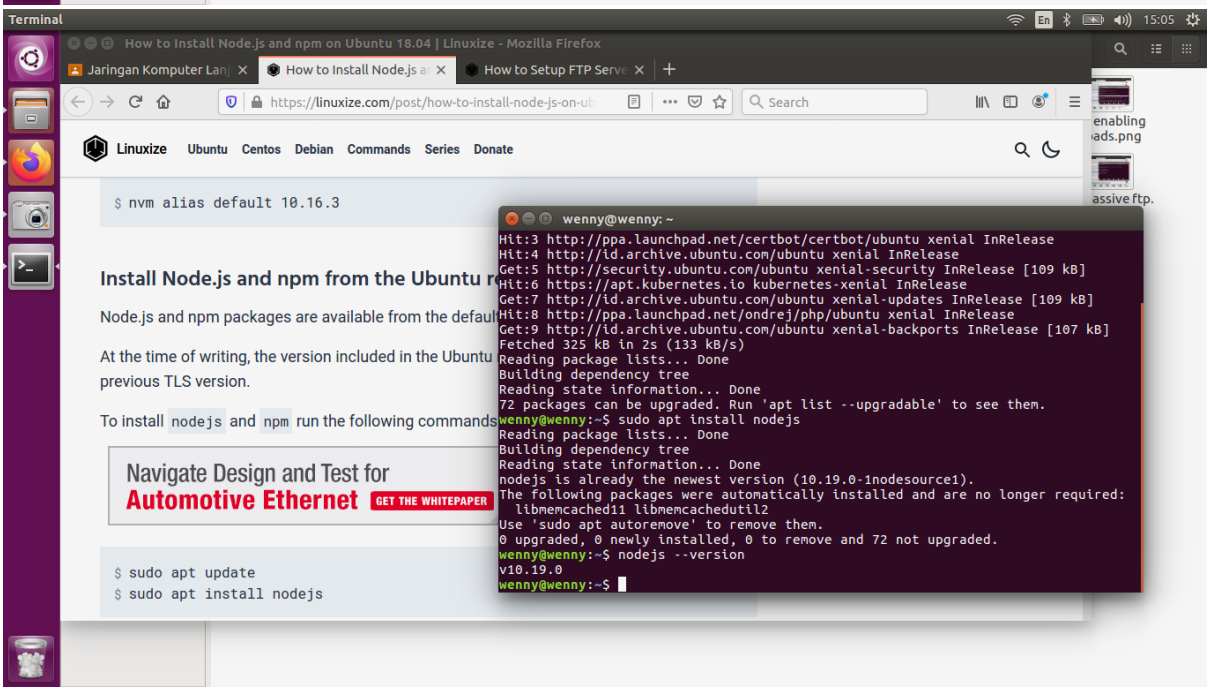
Installing Node.js and npm using NVM
NVM (Node Version Manager) is a bash script used to man
versions. With NVM you can install and uninstall any specif
or test.
To install Node.js and npm using NVM on your Ubuntu syst
1. Installing NVM (Node Version Manager) script
To download and install the nvm script run:
-o- https://raw.githubusercontent.com/creationix/
The command above will clone the NVM repository from G
CHANGE THE OLD SK
TO COOL!
Output
wenny@wenny: ~
% Total % Received % Xferd Average Speed Time Time Time Current
Dload Upload Total Spent Left Speed
100 13226 100 13226 0 0 2276 0 0:00:05 0:00:05 --:--:-- 3079
=> Downloading nvm from git to '/home/wenny/.nvm'
=> Cloning into '/home/wenny/.nvm'...
remote: Enumerating objects: 278, done.
remote: Counting objects: 100% (278/278), done.
remote: Compressing objects: 100% (245/245), done.
remote: Total 278 (delta 32), reused 95 (delta 20), pack-reused 0
Receiving objects: 100% (278/278), 142.15 KiB | 115.00 KiB/s, done.
Resolving deltas: 100% (32/32), done.
Checking connectivity... done.
=> Compressing and cleaning up git repository
=> Appending nvm source string to /home/wenny/.bashrc
=> Appending bash_completion source string to /home/wenny/.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"] && \. "$NVM_DIR/bash_completion" # This loads nvm bash_completion
wenny@wenny:~$


Terminal
15:05
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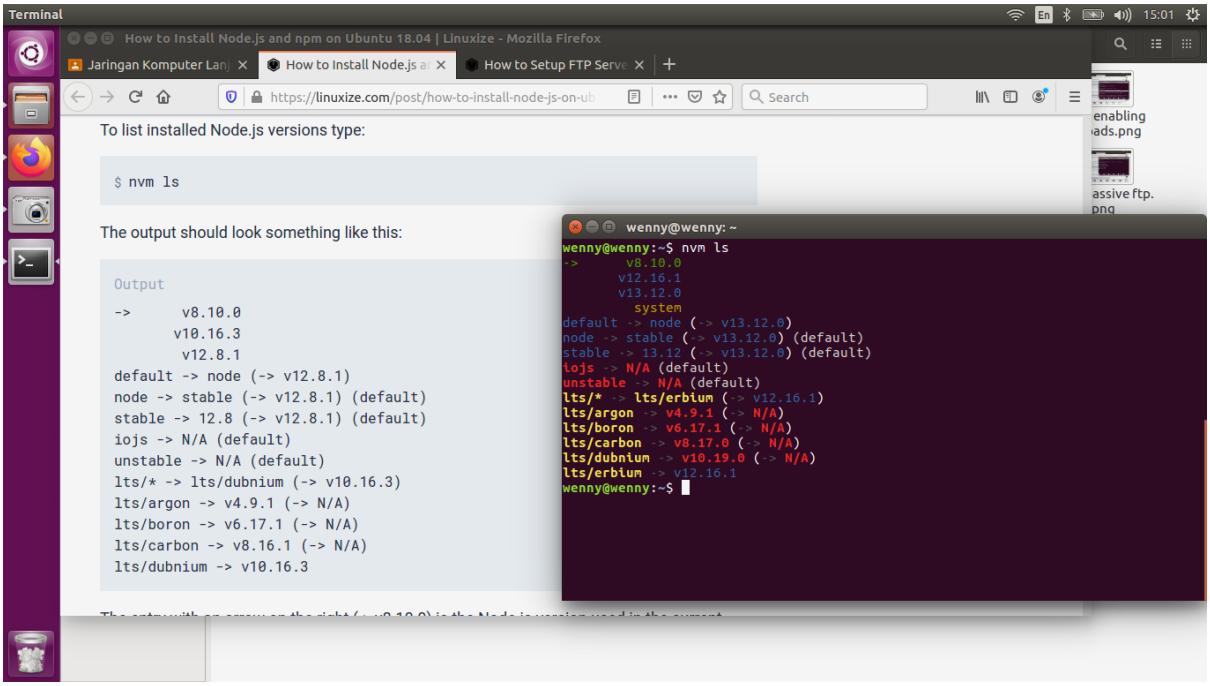
Linuxize
Ubuntu
Centos
Debian
Commands
Series
Donate
$ nvm alias default 10.16.3
Install Node.js and npm from the Ubuntu r
Node.js and npm packages are available from the defaul
At the time of writing, the version included in the Ubuntu
previous TLS version.
To install nodejs and npm run the following commands
Navigate Design and Test for
Automotive Ethernet
GET THE WHITEPAPER
$ sudo apt update
$ sudo apt install nodejs
wenny@wenny: ~
Hit:3 http://ppa.launchpad.net/certbot/certbot/ubuntu xenial InRelease
Hit:4 http://id.archive.ubuntu.com/ubuntu xenial InRelease
Get:5 http://security.ubuntu.com/ubuntu xenial-security InRelease [109 kB]
Hit:6 https://apt.kubernetes.io kubernetes-xenial InRelease
Get:7 http://id.archive.ubuntu.com/ubuntu xenial-updates InRelease [109 kB]
Hit:8 http://ppa.launchpad.net/ondrej/php/ubuntu xenial InRelease
Get:9 http://id.archive.ubuntu.com/ubuntu xenial-backports InRelease [107 kB]
Fetched 325 kB in 2s (133 kB/s)
Reading package lists... Done
Building dependency tree
Reading state information... Done
72 packages can be upgraded. Run 'apt list --upgradable' to see them.
wenny@wenny:~$ sudo apt install nodejs
Reading package lists... Done
Building dependency tree
Reading state information... Done
nodejs is already the newest version (10.19.0-1nodesource1).
The following packages were automatically installed and are no longer required:
libmemcached11 libmemcachedutil2
Use 'sudo apt autoremove' to remove them.
0 upgraded, 0 newly installed, 0 to remove and 72 not upgraded.
wenny@wenny:~$ nodejs --version
v10.19.0
wenny@wenny:~$


Terminal
15:01
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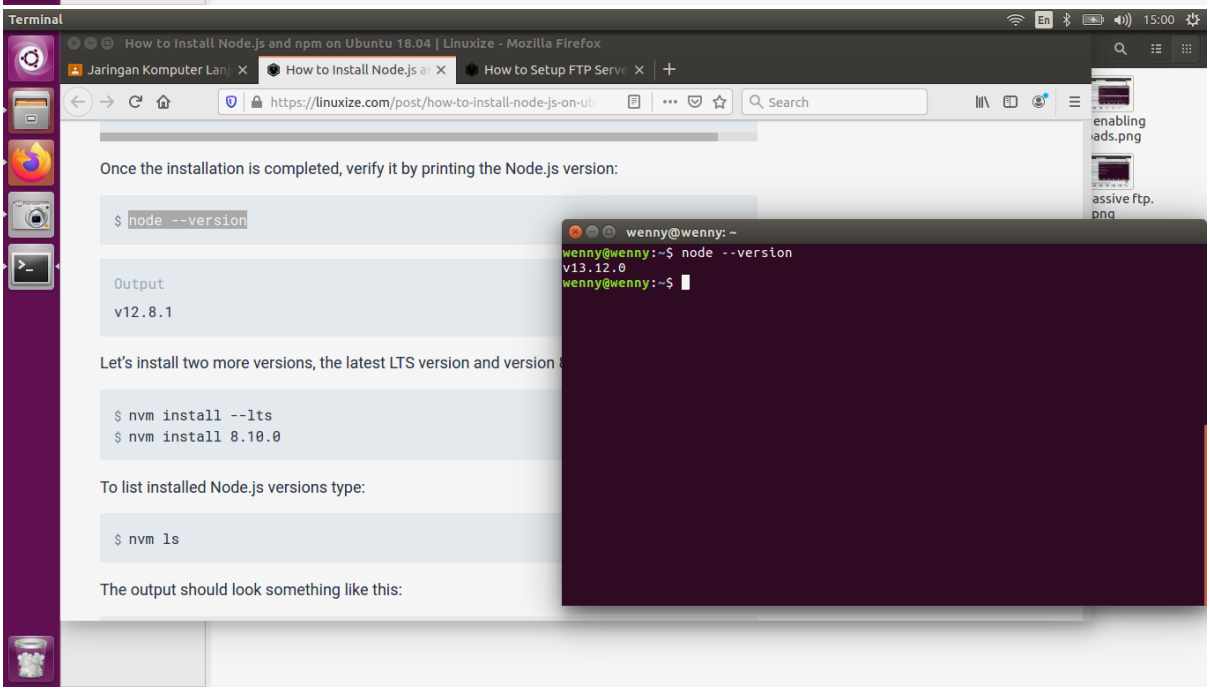
Search
To list installed Node.js versions type:
$ nvm ls
The output should look something like this:
Output
-> v8.10.0
v10.16.3
v12.8.1
default -> node (-> v12.8.1)
node -> stable (-> v12.8.1) (default)
stable -> 12.8 (-> v12.8.1) (default)
iojs -> N/A (default)
unstable -> N/A (default)
lts/* -> lts/dubnium (-> v10.16.3)
lts/argon -> v4.9.1 (-> N/A)
lts/boron -> v6.17.1 (-> N/A)
lts/carbon -> v8.16.1 (-> N/A)
lts/dubnium -> v10.16.3
wenny@wenny: ~
wenny@wenny:~$ nvm ls
-> v8.10.0
v12.16.1
v13.12.0
system
default -> node (-> v13.12.0)
node -> stable (-> v13.12.0) (default)
stable -> 13.12 (-> v13.12.0) (default)
iojs -> N/A (default)
unstable -> N/A (default)
lts/* -> lts/erbium (-> v12.16.1)
lts/argon -> v4.9.1 (-> N/A)
lts/boron -> v6.17.1 (-> N/A)
lts/carbon -> v8.17.0 (-> N/A)
lts/dubnium -> v10.19.0 (-> N/A)
lts/erbium -> v12.16.1
wenny@wenny:~$


Terminal
15:00
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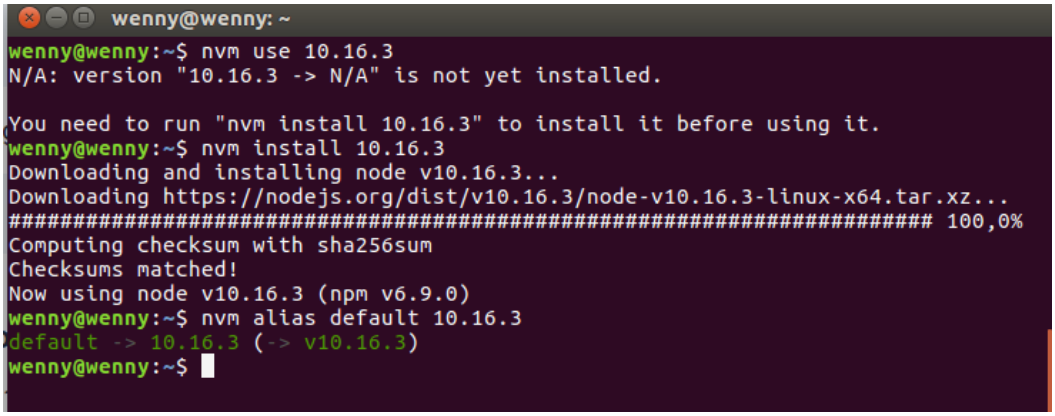
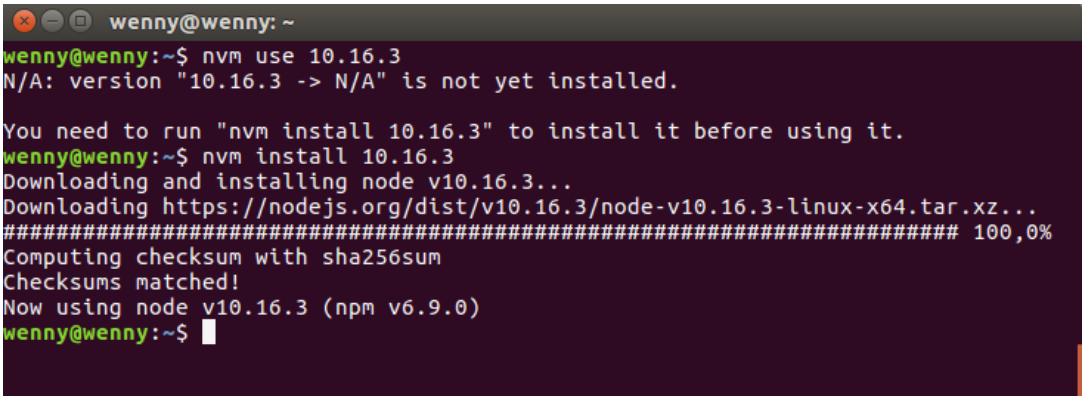
Search
Once the installation is completed, verify it by printing the Node.js version:
$ node --version
Output
v12.8.1
Let's install two more versions, the latest LTS version and version
$ nvm install --lts
$ nvm install 8.10.0
To list installed Node.js versions type:
$ nvm ls
The output should look something like this:
wenny@wenny: ~
wenny@wenny:~$ node --version
v13.12.0
wenny@wenny:~$


wenny@wenny: ~
wenny@wenny:~$ nvm use 10.16.3
N/A: version "10.16.3 -> N/A" is not yet installed.
You need to run "nvm install 10.16.3" to install it before using it.
wenny@wenny:~$ nvm install 10.16.3
Downloading and installing node v10.16.3...
Downloading https://nodejs.org/dist/v10.16.3/node-v10.16.3-linux-x64.tar.xz...
100,0%
Computing checksum with sha256sum
Checksums matched!
Now using node v10.16.3 (npm v6.9.0)
wenny@wenny:~$ nvm alias default 10.16.3
default -> 10.16.3 (-> v10.16.3)
wenny@wenny:~$


wenny@wenny: ~
wenny@wenny:~$ nvm use 10.16.3
N/A: version "10.16.3 -> N/A" is not yet installed.
You need to run "nvm install 10.16.3" to install it before using it.
wenny@wenny:~$ nvm install 10.16.3
Downloading and installing node v10.16.3...
Downloading https://nodejs.org/dist/v10.16.3/node-v10.16.3-linux-x64.tar.xz...
100,0%
Computing checksum with sha256sum
Checksums matched!
Now using node v10.16.3 (npm v6.9.0)
wenny@wenny:~$