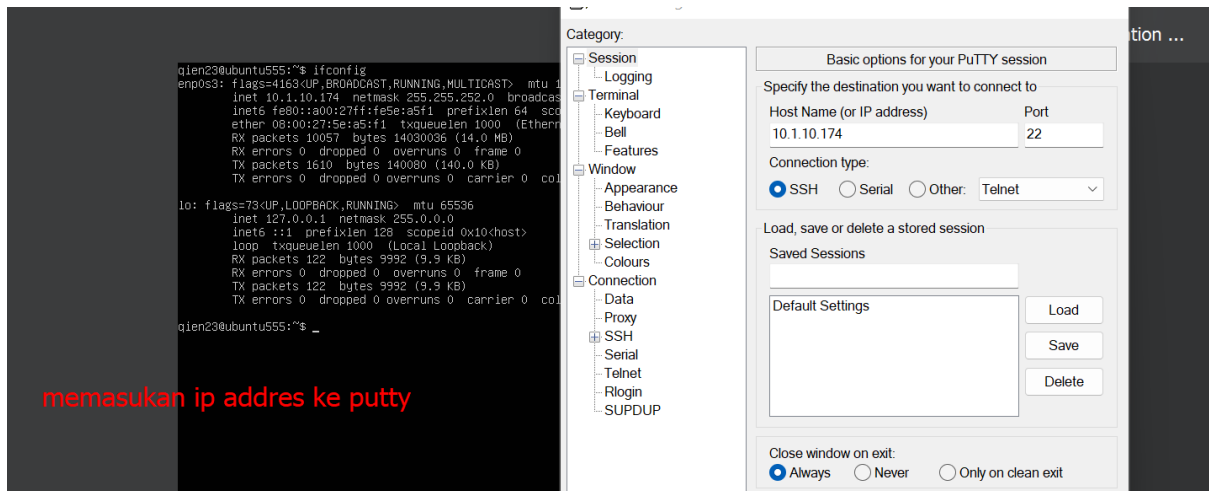


```
qien23@ubuntu555:~$ sudo apt install openssh-server
Reading package lists... Done
Building dependency tree
Reading state information... Done
openssh-server is already the newest version (1:8.2p1-4ubuntu0.5).
0 upgraded, 0 newly installed, 0 to remove and 48 not upgraded.
qien23@ubuntu555:~$ ifconfig
> ^C
qien23@ubuntu555:~$ ifconfig
enp0s3: flags=4163<UP,BROADCAST,RUNNING,MULTICAST> mtu 1500
    inet 10.1.10.174 netmask 255.255.252.0 broadcast 10.1.11.255
    inet6 fe80::a00:27ff:fe5e:a5f1 prefixlen 64 scopeid 0x20<link>
    ether 08:00:27:5e:a5:f1 txqueuelen 1000 (Ethernet)
    RX packets 9950 bytes 14018347 (14.0 MB)
    RX errors 0 dropped 0 overruns 0 frame 0
    TX packets 1598 bytes 138465 (138.4 KB)
    TX errors 0 dropped 0 overruns 0 carrier 0 collisions 0

lo: flags=73<UP,LOOPBACK,RUNNING> mtu 65536
    inet 127.0.0.1 netmask 255.0.0.0
    inet6 ::1 prefixlen 128 scopeid 0x10<host>
    loop txqueuelen 1000 (Local Loopback)
    RX packets 122 bytes 9992 (9.9 KB)
    RX errors 0 dropped 0 overruns 0 frame 0
    TX packets 122 bytes 9992 (9.9 KB)
    TX errors 0 dropped 0 overruns 0 carrier 0 collisions 0

qien23@ubuntu555:~$
```

ifconfig adalah perintah untuk melihat ip address



```

qien23@ubuntu555:~$ sudo apt install apache2
[sudo] password for qien23:
Reading package lists... Done
Building dependency tree
Reading state information... Done
The following additional packages will be installed:
  apache2-bin apache2-data apache2-utils libapr1 libaprutil1 libaprutil1-dbd-sqlite3 libaprutil1-ldap libjansson4 liblua5.2-0 ssl-cert
Suggested packages:
  apache2-doc apache2-suexec-pristine | apache2-suexec-custom www-browser openssl-blacklist
The following NEW packages will be installed:
  apache2 apache2-bin apache2-data apache2-utils libapr1 libaprutil1 libaprutil1-dbd-sqlite3 libaprutil1-ldap libjansson4 liblua5.2-0 ssl-cert
0 upgraded, 11 newly installed, 0 to remove and 48 not upgraded.
Need to get 1,867 kB of archives.
After this operation, 8,098 kB of additional disk space will be used.
Do you want to continue? [Y/n] y
Get:1 http://id.archive.ubuntu.com/ubuntu focal/main amd64 libapr1 amd64 1.6.5-1ubuntu1 [91.4 kB]
Get:2 http://id.archive.ubuntu.com/ubuntu focal-updates/main amd64 libaprutil1 amd64 1.6.1-4ubuntu2.1 [84.9 kB]
Get:3 http://id.archive.ubuntu.com/ubuntu focal-updates/main amd64 libaprutil1-dbd-sqlite3 amd64 1.6.1-4ubuntu2.1 [10.6 kB]
Get:4 http://id.archive.ubuntu.com/ubuntu focal-updates/main amd64 libaprutil1-ldap amd64 1.6.1-4ubuntu2.1 [8,756 B]
Get:5 http://id.archive.ubuntu.com/ubuntu focal/main amd64 libjansson4 amd64 2.12-1build1 [28.9 kB]
Get:6 http://id.archive.ubuntu.com/ubuntu focal/main amd64 liblua5.2-0 amd64 5.2.4-1.1build3 [106 kB]
Get:7 http://id.archive.ubuntu.com/ubuntu focal-updates/main amd64 apache2-bin amd64 2.4.41-4ubuntu3.14 [1,182 kB]
Get:8 http://id.archive.ubuntu.com/ubuntu focal-updates/main amd64 apache2-data all 2.4.41-4ubuntu3.14 [158 kB]
Get:9 http://id.archive.ubuntu.com/ubuntu focal-updates/main amd64 apache2-utils amd64 2.4.41-4ubuntu3.14 [84.4 kB]
Get:10 http://id.archive.ubuntu.com/ubuntu focal-updates/main amd64 apache2 amd64 2.4.41-4ubuntu3.14 [95.6 kB]
Get:11 http://id.archive.ubuntu.com/ubuntu focal/main amd64 ssl-cert all 1.0.39 [17.0 kB]
Fetched 1,867 kB in 1s (1,357 kB/s)
Preconfiguring packages ...
Selecting previously unselected package libapr1:amd64.
(Reading database ... 72188 files and directories currently installed.)
Preparing to unpack .../00-libapr1_1.6.5-1ubuntu1_amd64.deb ...
Unpacking libapr1:amd64 (1.6.5-1ubuntu1) ...
Selecting previously unselected package libaprutil1:amd64.
Preparing to unpack .../01-libaprutil1_1.6.1-4ubuntu2.1_amd64.deb ...
Unpacking libaprutil1:amd64 (1.6.1-4ubuntu2.1) ...
Selecting previously unselected package libaprutil1-dbd-sqlite3:amd64.
Preparing to unpack .../02-libaprutil1-dbd-sqlite3_1.6.1-4ubuntu2.1_amd64.deb ...
Unpacking libaprutil1-dbd-sqlite3:amd64 (1.6.1-4ubuntu2.1) ...
Selecting previously unselected package libaprutil1-ldap:amd64.
Preparing to unpack .../03-libaprutil1-ldap_1.6.1-4ubuntu2.1_amd64.deb ...
Unpacking libaprutil1-ldap:amd64 (1.6.1-4ubuntu2.1) ...
Selecting previously unselected package libjansson4:amd64.
Preparing to unpack .../04-libjansson4_2.12-1build1_amd64.deb ...
Unpacking libjansson4:amd64 (2.12-1build1) ...

```

install apache2

```

Setting up apache2-utils (2.4.41-4ubuntu3.14) ...
Setting up apache2-bin (2.4.41-4ubuntu3.14) ...
Setting up apache2 (2.4.41-4ubuntu3.14) ...
Enabling module mpm_event.
Enabling module authz_core.
Enabling module authz_host.
Enabling module authn_core.
Enabling module auth_basic.
Enabling module access_compat.
Enabling module authn_file.
Enabling module authz_user.
Enabling module alias.
Enabling module dir.
Enabling module autoindex.
Enabling module env.
Enabling module mime.
Enabling module negotiation.
Enabling module setenvif.
Enabling module filter.
Enabling module deflate.
Enabling module status.
Enabling module reqtimeout.
Enabling conf charset.
Enabling conf localized-error-pages.
Enabling conf other-vhosts-access-log.
Enabling conf security.
Enabling conf serve-cgi-bin.
Enabling site 000-default.
Created symlink /etc/systemd/system/multi-user.target.wants/apache2.service → /lib/systemd/system/apache2.service.
Created symlink /etc/systemd/system/multi-user.target.wants/apache-htcacheclean.service → /lib/systemd/system/apache-htcacheclean.service.
Processing triggers for ufw (0.36-6ubuntu1) ...
Processing triggers for systemd (245.4-4ubuntu3.17) ...
Processing triggers for man-db (2.9.1-1) ...
Processing triggers for libc-bin (2.31-0ubuntu9.9) ...
qien23@ubuntu555:~$ sudo ufw app list
Available applications:
  Apache
  Apache Full
  Apache Secure
  OpenSSH
qien23@ubuntu555:~$ sudo ufw allow 'apache'
Rules updated
Rules updated (v6)
qien23@ubuntu555:~$

```

untuk melihat aplikasi yg sudah terinstall di putty

```
root@ubuntu555: /var/www/html
qien23@ubuntu555:~$ cd /var/www/html
qien23@ubuntu555:/var/www/html$ ls
index.html
qien23@ubuntu555:/var/www/html$ mkdir qien_yeahwebsite
mkdir: cannot create directory 'qien_yeahwebsite': Permission denied
qien23@ubuntu555:/var/www/html$ sudo su
root@ubuntu555:/var/www/html#
```

cd/var untuk membuat menu index html
mkdir untuk membuat file html
sudo su untuk login ke akun super user

Apache2 Ubuntu Default Page: It works!

default welcome page used to test the correct operation of the Apache2 server after installation on Ubuntu systems. It is based on the equivalent page on Debian, from which the packaging is derived. If you can read this page, it means that the Apache HTTP server is working properly. You should **replace this file** (located at `/var/www/html/index.html`) with your own content.

If you are a normal user of this web site and don't know what this page is about, this probably means that the site is currently unavailable due to maintenance. If the problem persists, please contact your system administrator.

Configuration Overview

Apache2 default configuration is different from the upstream default configuration, and is tailored for interaction with Ubuntu tools. The configuration system is **fully integrated in `/usr/share/doc/apache2/README.Debian.gz`**. Refer to this for the full configuration documentation. Documentation for the web server itself can be found by accessing the **man pages** or the **online documentation**.

The following is a sample configuration layout for an Apache2 web server installation on Ubuntu systems as follows:

```
##
## The following lines contain the basic configuration for the web server.
##
## The 'Listen' directive defines the port of the listener.
##
Listen 12.34.56.78:80

##
## The 'ServerName' directive defines the host name and port of the
## server, as seen by clients. It is essential for the operation of
## any server that is expected to be accessible on the Internet.
##
## Put the 'ServerName' line at the top of the configuration and add
## '@' as a wildcard for the port, which is often omitted by browsers.
##
ServerName www.example.com:80

##
## To be able to use the functionality of a module which is not
## included by default of the binary you have installed, you will have
## to use the 'Include' directive to 'include' the corresponding
## modules configuration.
##
## To be able to use the functionality of a module which is not
## included by default of the binary you have installed, you will have
## to use the 'Include' directive to 'include' the corresponding
## modules configuration.
##
#IncludeOptional mods_available

##
## Dynamic shared object (DSO) support
##
## To be able to use the functionality of a module which was built as
## a DSO you have to place corresponding 'LoadModule' lines at this
## location so the dynamic shared object is loaded at runtime.
##
## The 'LoadModule' line should come before any use of the module.
##
## The 'LoadModule' line should come before any use of the module.
##
LoadModule ssl_module modules/mod_ssl.so

##
## The 'SSLEngine' directive defines whether SSL is enabled for the
## server. It is essential for the operation of any server that is
## expected to be accessible on the Internet.
##
## Put the 'SSLEngine' line at the top of the configuration and add
## '@' as a wildcard for the port, which is often omitted by browsers.
##
SSLEngine on

##
## The 'SSLProtocol' directive defines the SSL protocols to be
## supported. It is essential for the operation of any server that
## is expected to be accessible on the Internet.
##
## Put the 'SSLProtocol' line at the top of the configuration and add
## '@' as a wildcard for the port, which is often omitted by browsers.
##
SSLProtocol all -SSLv2 -SSLv3
```

```
root@ubuntu555: /var/www/html
qien23@ubuntu555:~$ cd /var/www/html
qien23@ubuntu555:/var/www/html$ ls
index.html
qien23@ubuntu555:/var/www/html$ mkdir qien_yeahwebsite
mkdir: cannot create directory 'qien_yeahwebsite': Permission denied
qien23@ubuntu555:/var/www/html$ sudo su
root@ubuntu555:/var/www/html#
root@ubuntu555:/var/www/html# ifconfig
emp0a3: flags=73<UP,LOOPBACK,RUNNING> mtu 1500
    inet 10.1.10.174 netmask 255.255.252.0 broadcast 10.1.11.255
    inet 127.0.0.1 netmask 255.255.255.0 scopeid 0x10<host>
    ether 08:00:27:5e:a5:f1 txqueuelen 1000 (Ethernet)
    RX packets 12646 bytes 16115145 (16.1 MB)
    RX errors 0 dropped 0 overruns 0 frame 0
    TX packets 2672 bytes 273859 (273.8 KB)
    TX errors 0 dropped 0 overruns 0 carrier 0 collisions 0

root@ubuntu555:/var/www/html#
```

test ip di crone dan berhasil