Menginstal Server Web Apache pada Ubuntu

1. sudo apt update, langkah instal yang pertama

2. sudo apt install apache2, untuk menginstal paket apache2, lalu ketik "y" untuk lanjut


```
ubuntu@primary: ~                                              —    □    ✕
Get:23 http://security.ubuntu.com/ubuntu jammy-security/universe Translation-e
n [78.2 kB]
Get:24 http://security.ubuntu.com/ubuntu jammy-security/universe amd64 c-n-f M
etadata [2408 B]
Get:25 http://security.ubuntu.com/ubuntu jammy-security/multiverse amd64 Packa
ges [4192 B]
Get:26 http://security.ubuntu.com/ubuntu jammy-security/multiverse Translation
-en [900 B]
Get:27 http://security.ubuntu.com/ubuntu jammy-security/multiverse amd64 c-n-f
 Metadata [228 B]
Get:28 http://archive.ubuntu.com/ubuntu jammy-updates/universe Translation-en
[124 kB]
Get:29 http://archive.ubuntu.com/ubuntu jammy-updates/universe amd64 c-n-f Met
adata [4404 B]
Get:30 http://archive.ubuntu.com/ubuntu jammy-updates/multiverse amd64 Package
s [7260 B]
Get:31 http://archive.ubuntu.com/ubuntu jammy-updates/multiverse Translation-e
n [2360 B]
Get:32 http://archive.ubuntu.com/ubuntu jammy-updates/multiverse amd64 c-n-f M
etadata [420 B]
Get:33 http://archive.ubuntu.com/ubuntu jammy-backports/main amd64 Packages [3
008 B]
Get:34 http://archive.ubuntu.com/ubuntu jammy-backports/main Translation-en [1
432 B]
Get:35 http://archive.ubuntu.com/ubuntu jammy-backports/main amd64 c-n-f Metad
ata [272 B]
Get:36 http://archive.ubuntu.com/ubuntu jammy-backports/restricted amd64 c-n-f
 Metadata [116 B]
Get:37 http://archive.ubuntu.com/ubuntu jammy-backports/universe amd64 Package
s [6744 B]
Get:38 http://archive.ubuntu.com/ubuntu jammy-backports/universe Translation-e
n [9360 B]
Get:39 http://archive.ubuntu.com/ubuntu jammy-backports/universe amd64 c-n-f M
etadata [352 B]
Get:40 http://archive.ubuntu.com/ubuntu jammy-backports/multiverse amd64 c-n-f
 Metadata [116 B]
Fetched 24.7 MB in 1min 40s (247 kB/s)
Reading package lists... Done
Building dependency tree... Done
Reading state information... Done
17 packages can be upgraded. Run 'apt list --upgradable' to see them.
ubuntu@primary:~$ sudo apt install apache 2_
```

```
[124 kB]
Get:29 http://archive.ubuntu.com/ubuntu jammy-updates/universe amd64 c-n-f Met
adata [4404 B]
Get:30 http://archive.ubuntu.com/ubuntu jammy-updates/multiverse amd64 Package
s [7260 B]
Get:31 http://archive.ubuntu.com/ubuntu jammy-updates/multiverse Translation-e
n [2360 B]
Get:32 http://archive.ubuntu.com/ubuntu jammy-updates/multiverse amd64 c-n-f M
etadata [420 B]
Get:33 http://archive.ubuntu.com/ubuntu jammy-backports/main amd64 Packages [3
008 B]
Get:34 http://archive.ubuntu.com/ubuntu jammy-backports/main Translation-en [1
432 B]
Get:35 http://archive.ubuntu.com/ubuntu jammy-backports/main amd64 c-n-f Metad
ata [272 B]
Get:36 http://archive.ubuntu.com/ubuntu jammy-backports/restricted amd64 c-n-f
 Metadata [116 B]
Get:37 http://archive.ubuntu.com/ubuntu jammy-backports/universe amd64 Package
s [6744 B]
Get:38 http://archive.ubuntu.com/ubuntu jammy-backports/universe Translation-e
n [9360 B]
Get:39 http://archive.ubuntu.com/ubuntu jammy-backports/universe amd64 c-n-f M
etadata [352 B]
Get:40 http://archive.ubuntu.com/ubuntu jammy-backports/multiverse amd64 c-n-f
 Metadata [116 B]
Fetched 24.7 MB in 1min 40s (247 kB/s)
Reading package lists... Done
Building dependency tree... Done
Reading state information... Done
17 packages can be upgraded. Run 'apt list --upgradable' to see them.
ubuntu@primary:~$ sudo apt install apache2
Reading package lists... Done
Building dependency tree... Done
Reading state information... Done
The following additional packages will be installed:
  apache2-bin apache2-data apache2-utils bzip2 libapr1 libaprutil1
  libaprutil1-dbd-sqlite3 libaprutil1-ldap liblua5.3-0 mailcap mime-support
  ssl-cert
Suggested packages:
  apache2-doc apache2-suexec-pristine | apache2-suexec-custom www-browser
  bzip2-doc
The following NEW packages will be installed:
  apache2 apache2-bin apache2-data apache2-utils bzip2 libapr1 libaprutil1
  libaprutil1-dbd-sqlite3 libaprutil1-ldap liblua5.3-0 mailcap mime-support
  ssl-cert
0 upgraded, 13 newly installed, 0 to remove and 17 not upgraded.
Need to get 2136 kB of archives.
After this operation, 8505 kB of additional disk space will be used.
Do you want to continue? [Y/n]
```

3. sudo ufw app list, untuk mengecek daftar profile yang tersedia

```
ubuntu@primary: ~                                          —    □    ×
Setting up libaprutil1-dbd-sqlite3:amd64 (1.6.1-5ubuntu4) ...
Setting up apache2-utils (2.4.52-1ubuntu4.2) ...
Setting up apache2-bin (2.4.52-1ubuntu4.2) ...
Setting up apache2 (2.4.52-1ubuntu4.2) ...
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-htcacheclea
n.service → /lib/systemd/system/apache-htcacheclean.service.
Processing triggers for ufw (0.36.1-4build1) ...
Processing triggers for man-db (2.10.2-1) ...
Processing triggers for libc-bin (2.35-0ubuntu3.1) ...
Scanning processes...
Scanning linux images...

Running kernel seems to be up-to-date.

No services need to be restarted.

No containers need to be restarted.

No user sessions are running outdated binaries.

No VM guests are running outdated hypervisor (qemu) binaries on this host.
ubuntu@primary:~$ sudo ufw app list
```

4. sudo ufw allow 'Apache', untuk mengaktifkan profil apache

```
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-htcacheclea
n.service → /lib/systemd/system/apache-htcacheclean.service.
Processing triggers for ufw (0.36.1-4build1) ...
Processing triggers for man-db (2.10.2-1) ...
Processing triggers for libc-bin (2.35-0ubuntu3.1) ...
Scanning processes...
Scanning linux images...

Running kernel seems to be up-to-date.

No services need to be restarted.

No containers need to be restarted.

No user sessions are running outdated binaries.

No VM guests are running outdated hypervisor (qemu) binaries on this host.
ubuntu@primary:~$ sudo ufw app list
Available applications:
  Apache
  Apache Full
  Apache Secure
  OpenSSH
ubuntu@primary:~$ sudo ufw allow 'Apache'
```
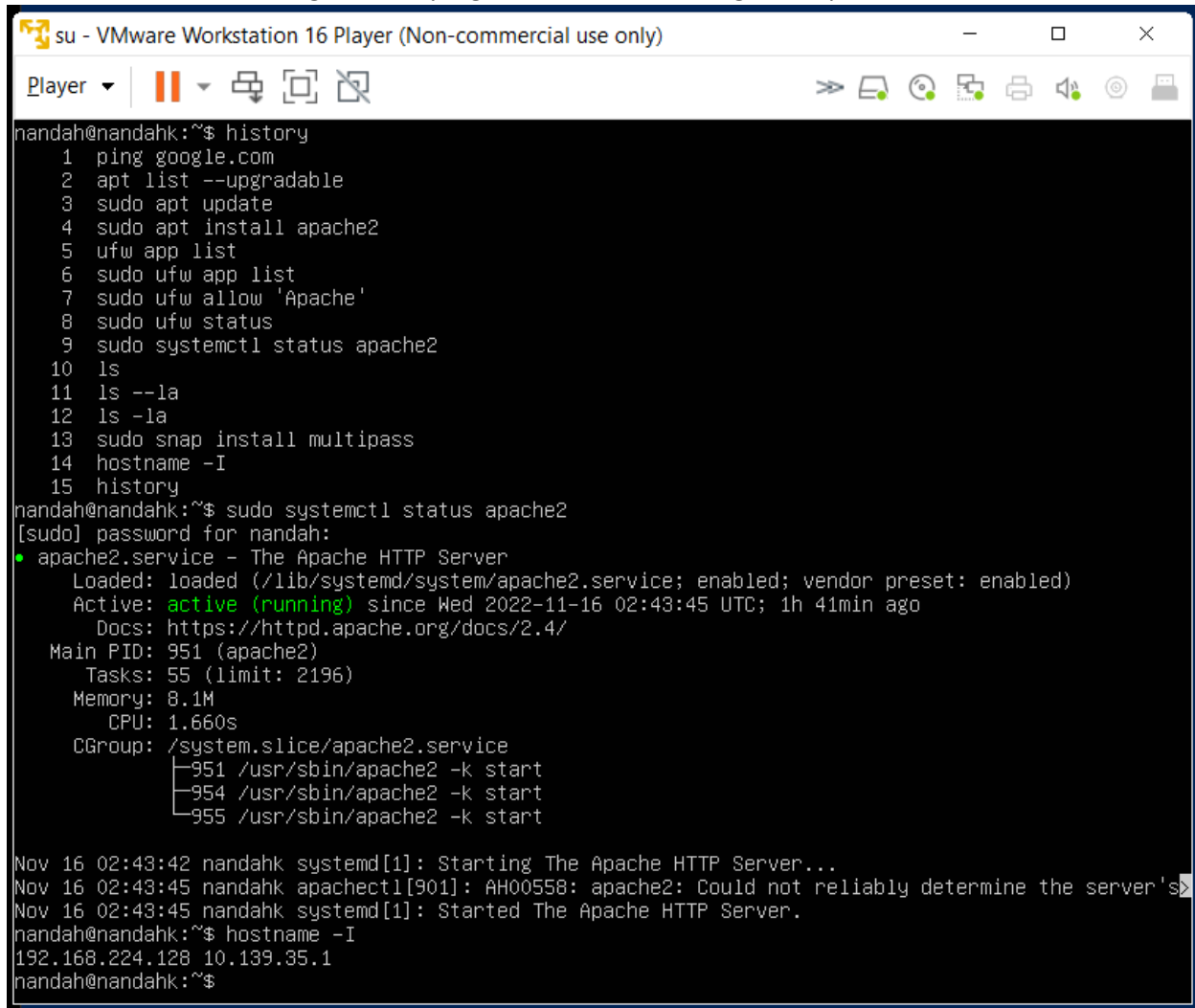
5. sudo ufw status, untuk daftar profile yang sudah di aktifkan dan mengijinkan akses ke web apache

```
ubuntu@primary: ~                                          —    □    ×

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-htcacheclea
n.service → /lib/systemd/system/apache-htcacheclean.service.
Processing triggers for ufw (0.36.1-4build1) ...
Processing triggers for man-db (2.10.2-1) ...
Processing triggers for libc-bin (2.35-0ubuntu3.1) ...
Scanning processes...
Scanning linux images...

Running kernel seems to be up-to-date.

No services need to be restarted.

No containers need to be restarted.

No user sessions are running outdated binaries.

No VM guests are running outdated hypervisor (qemu) binaries on this host.
ubuntu@primary:~$ sudo ufw app list
Available applications:
  Apache
  Apache Full
  Apache Secure
  OpenSSH
ubuntu@primary:~$ sudo ufw allow 'Apache'
Rules updated
Rules updated (v6)
ubuntu@primary:~$ sudo ufw status
```

6. sudo systemctl status apache2, untuk memeriksa sistem apache yang sedang berjalan

```
ubuntu@primary: ~                                          —    □    ✕

No user sessions are running outdated binaries.

No VM guests are running outdated hypervisor (qemu) binaries on this host.
ubuntu@primary:~$ sudo ufw app list
Available applications:
  Apache
  Apache Full
  Apache Secure
  OpenSSH
ubuntu@primary:~$ sudo ufw allow 'Apache'
Rules updated
Rules updated (v6)
ubuntu@primary:~$ sudo ufw status
Status: inactive
ubuntu@primary:~$ sudo systemctl status apache2
  apache2.service - The Apache HTTP Server
     Loaded: loaded (/lib/systemd/system/apache2.service; enabled; vendor pre>
     Active: active (running) since Wed 2022-11-16 10:30:21 +07; 5min ago
       Docs: https://httpd.apache.org/docs/2.4/
   Main PID: 3026 (apache2)
      Tasks: 55 (limit: 1116)
     Memory: 5.0M
        CPU: 115ms
     CGroup: /system.slice/apache2.service
             ├─3026 /usr/sbin/apache2 -k start
             ├─3028 /usr/sbin/apache2 -k start
             └─3029 /usr/sbin/apache2 -k start

Nov 16 10:30:21 primary systemd[1]: Starting The Apache HTTP Server...
Nov 16 10:30:21 primary apachectl[3025]: AH00558: apache2: Could not reliably>
Nov 16 10:30:21 primary systemd[1]: Started The Apache HTTP Server.
lines 1-16/16 (END)
```

7. hostname -I, untuk mengetahui IP yang di berikan untuk mengakses apache

IP : 192.168.224.128

8. http://192.168.224.128, ketik di browser untuk memastikan bahwa apache berfungsi dengan baik