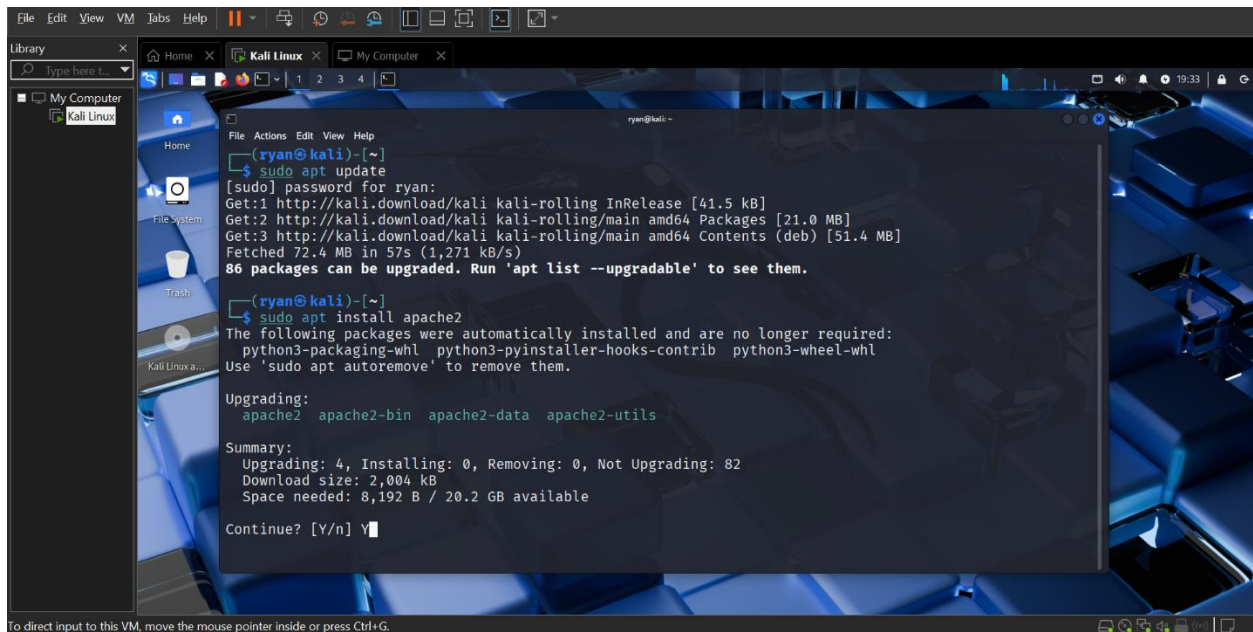


ASSIGNMENT 3



Ryan Hanif Dwihandoyo
Bootcamp CS Batch 3



```
File Edit View VM Tabs Help
Library
Type here to...
My Computer
Kali Linux
Home
File System
Trash
Kali Linux a...

ryan@kali: ~
File Actions Edit View Help
(ryan@kali)-[~]
$ sudo apt update
[sudo] password for ryan:
Get:1 http://kali.download/kali kali-rolling InRelease [41.5 kB]
Get:2 http://kali.download/kali kali-rolling/main amd64 Packages [21.0 MB]
Get:3 http://kali.download/kali kali-rolling/main amd64 Contents (deb) [51.4 MB]
Fetched 72.4 MB in 57s (1,271 kB/s)
86 packages can be upgraded. Run 'apt list --upgradable' to see them.

(ryan@kali)-[~]
$ sudo apt install apache2
The following packages were automatically installed and are no longer required:
python3-packaging-whl python3-pyinstaller-hooks-contrib python3-wheel-whl
Use 'sudo apt autoremove' to remove them.

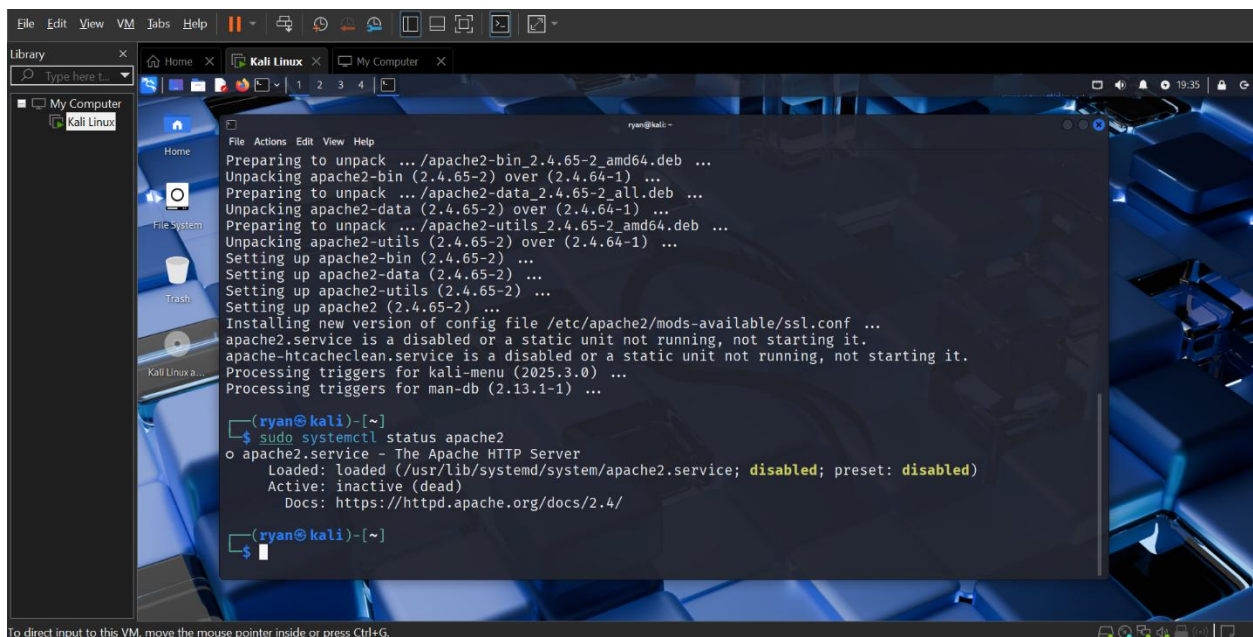
Upgrading:
apache2 apache2-bin apache2-data apache2-utils

Summary:
Upgrading: 4, Installing: 0, Removing: 0, Not Upgrading: 82
Download size: 2,004 kB
Space needed: 8,192 B / 20.2 GB available

Continue? [Y/n] Y
```

To direct input to this VM, move the mouse pointer inside or press Ctrl+G.

Perintah diatas untuk menyinkronkan daftar paket pada system dengan sumber repositorinya, memastikan mendapatkan versi terbarunya, dan melakukan sebuah unduh atau menginstal paket server web apache2 dan “**sudo**” digunakan untuk menjalankan perintah dengan akses superuser.



```
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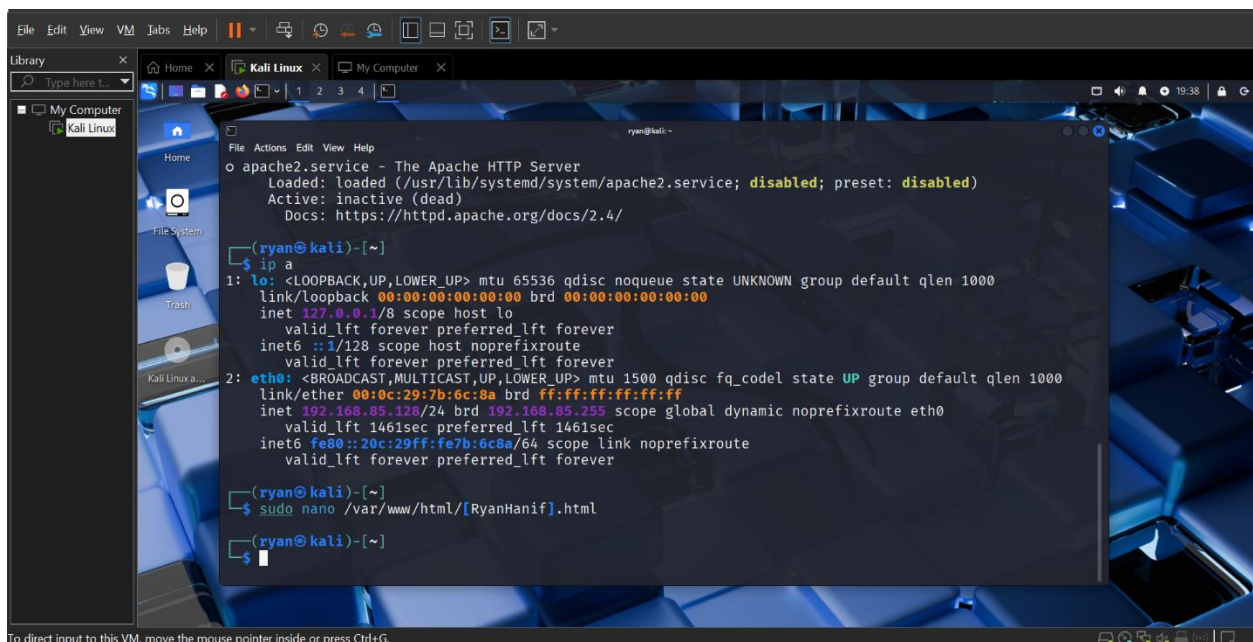
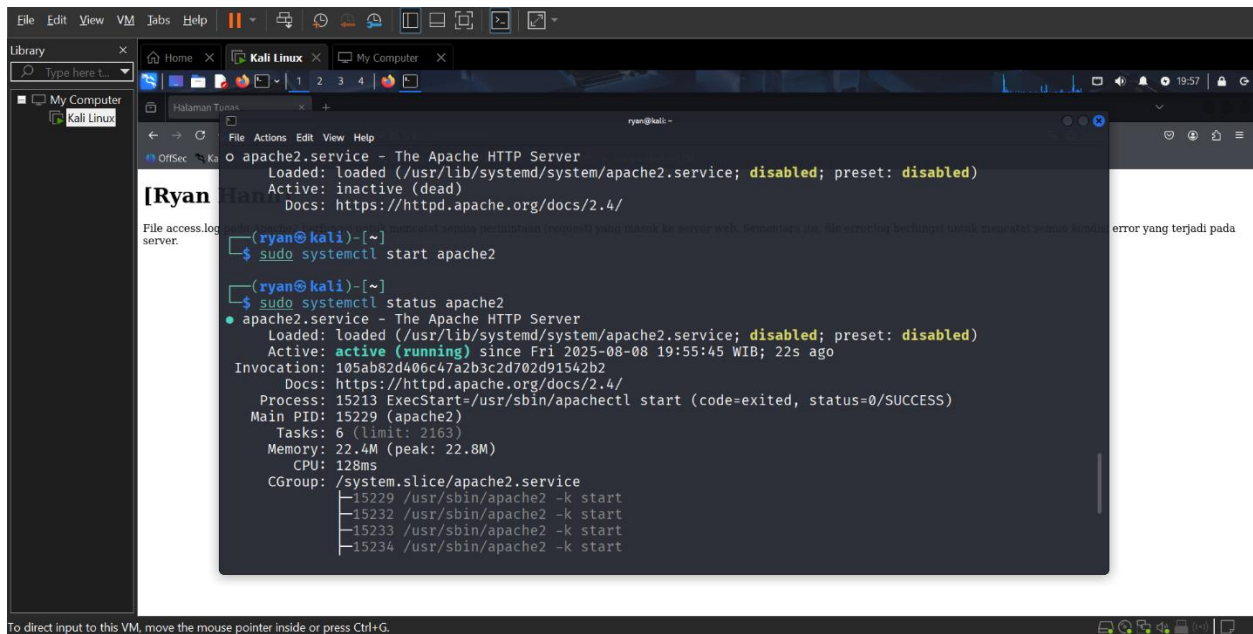
ryan@kali: ~
Preparing to unpack .../apache2-bin_2.4.65-2_amd64.deb ...
Unpacking apache2-bin (2.4.65-2) over (2.4.64-1) ...
Preparing to unpack .../apache2-data_2.4.65-2_all.deb ...
Unpacking apache2-data (2.4.65-2) over (2.4.64-1) ...
Preparing to unpack .../apache2-utils_2.4.65-2_amd64.deb ...
Unpacking apache2-utils (2.4.65-2) over (2.4.64-1) ...
Setting up apache2-bin (2.4.65-2) ...
Setting up apache2-data (2.4.65-2) ...
Setting up apache2-utils (2.4.65-2) ...
Setting up apache2 (2.4.65-2) ...
Installing new version of config file /etc/apache2/mods-available/ssl.conf ...
apache2.service is a disabled or a static unit not running, not starting it.
apache-htcacheclean.service is a disabled or a static unit not running, not starting it.
Processing triggers for kali-menu (2025.3.0) ...
Processing triggers for man-db (2.13.1-1) ...

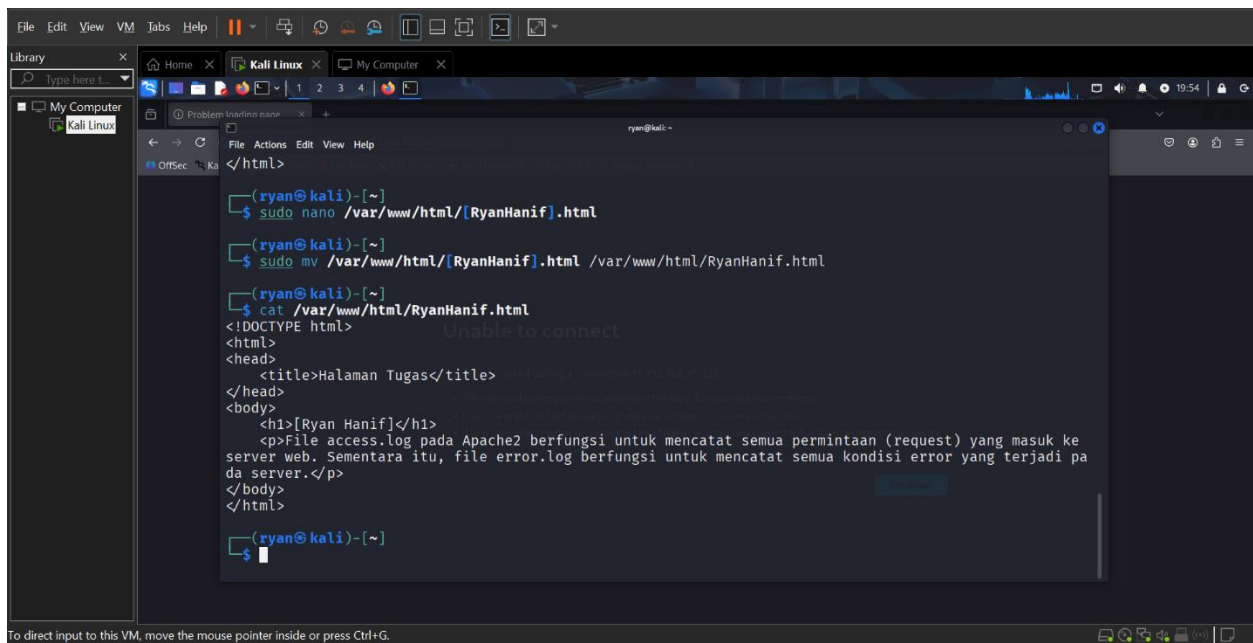
(ryan@kali)-[~]
$ sudo systemctl status apache2
o apache2.service - The Apache HTTP Server
   Loaded: loaded (/usr/lib/systemd/system/apache2.service; disabled; preset: disabled)
   Active: inactive (dead)
   Docs: https://httpd.apache.org/docs/2.4/

(ryan@kali)-[~]
$
```

To direct input to this VM, move the mouse pointer inside or press Ctrl+G.

Menggunakan “**systemctl**” untuk memeriksa layanan apache2 sudah aktif berjalan atau belum, dikarenakan activenya masih “**inactive**” kita menggunakan syntax “**start**” atau yang Dimana memulai seperti sebelumnya status untuk menanyakan keadaannya.





```
(ryan@kali)-[~]
$ sudo nano /var/www/html/[RyanHanif].html

(ryan@kali)-[~]
$ sudo mv /var/www/html/[RyanHanif].html /var/www/html/RyanHanif.html

(ryan@kali)-[~]
$ cat /var/www/html/RyanHanif.html
<!DOCTYPE html>
<html>
<head>
  <title>Halaman Tugas</title>
</head>
<body>
  <h1>[Ryan Hanif]</h1>
  <p>File access.log pada Apache2 berfungsi untuk mencatat semua permintaan (request) yang masuk ke server web. Sementara itu, file error.log berfungsi untuk mencatat semua kondisi error yang terjadi pada server.</p>
</body>
</html>

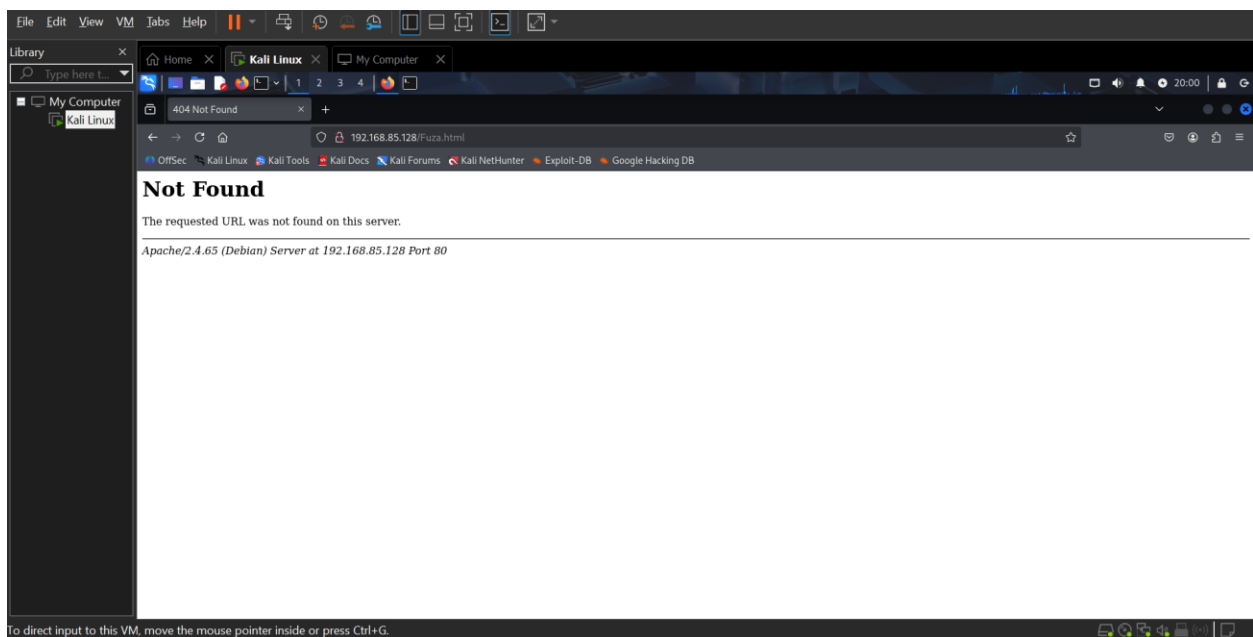
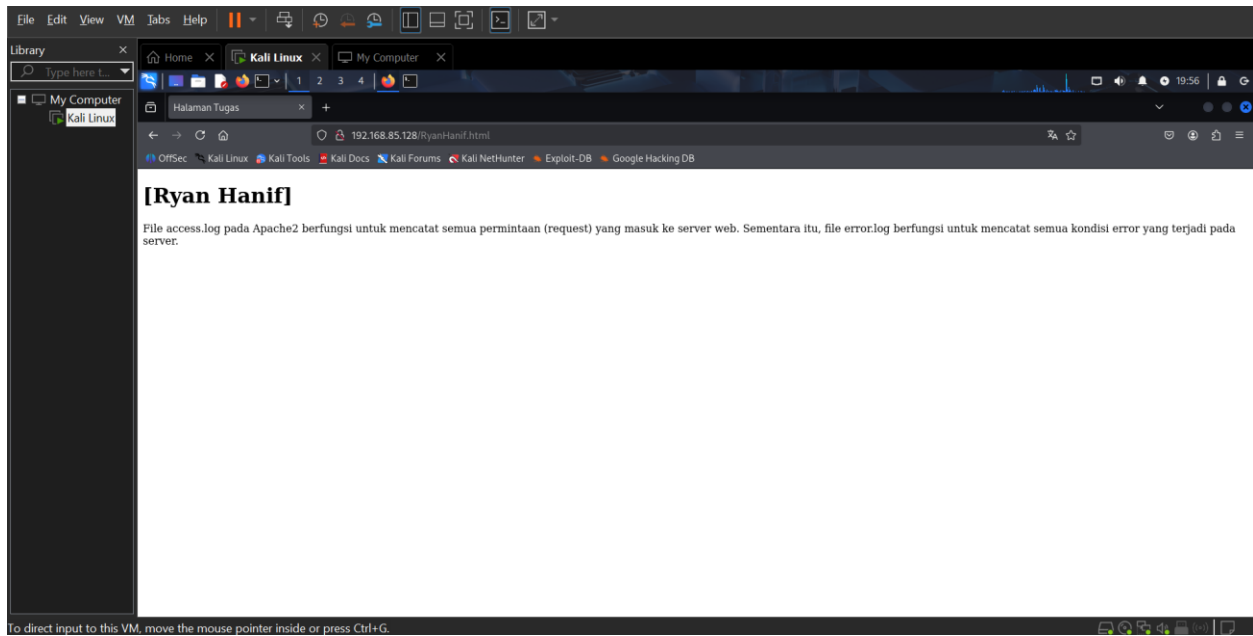
(ryan@kali)-[~]
$
```

“**IP a**” atau “**IP address**” untuk IP mengakses server web dari browser, menggunakan “**nano**” untuk membuat file html, dan melakukan perubahan nama html atau domainnya menggunakan “**sudo mv**” dan “**cat**” untuk menampilkan sebuah hal yang ingin kita tampilkan mengenai keadaannya.

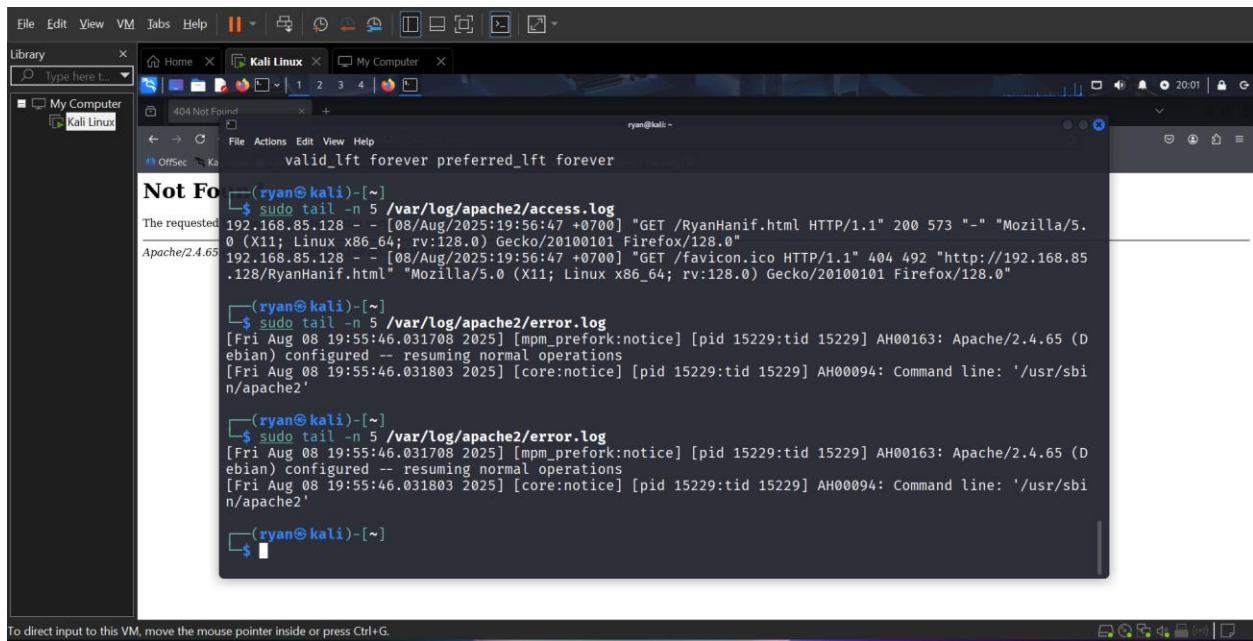
```
2: eth0: <BROADCAST,MULTICAST,UP,LOWER_UP> mtu 1500 qdisc fq_codel state UP group default qlen 1000
    link/ether 00:0c:29:7b:6c:8a brd ff:ff:ff:ff:ff:ff
    inet 192.168.85.128/24 brd 192.168.85.255 scope global dynamic noprefixroute eth0
        valid_lft 1461sec preferred_lft 1461sec
    inet6 fe80::20c:29ff:fe7b:6c8a/64 scope link noprefixroute
        valid_lft forever preferred_lft forever
```

192.168.85.128 adalah ip untuk mengakses file html yang ingin kita lihat di browser yaitu

<http://192.168.85.128/RyanHanif.html>



menggunakan domain salah



```
valid_lft forever preferred_lft forever

(ryan@kali)-[~]
$ sudo tail -n 5 /var/log/apache2/access.log
192.168.85.128 - - [08/Aug/2025:19:56:47 +0700] "GET /RyanHanif.html HTTP/1.1" 200 573 "-" "Mozilla/5.0 (X11; Linux x86_64; rv:128.0) Gecko/20100101 Firefox/128.0"
192.168.85.128 - - [08/Aug/2025:19:56:47 +0700] "GET /favicon.ico HTTP/1.1" 404 492 "http://192.168.85.128/RyanHanif.html" "Mozilla/5.0 (X11; Linux x86_64; rv:128.0) Gecko/20100101 Firefox/128.0"

(ryan@kali)-[~]
$ sudo tail -n 5 /var/log/apache2/error.log
[Fri Aug 08 19:55:46.031708 2025] [mpm_prefork:notice] [pid 15229:tid 15229] AH00163: Apache/2.4.65 (Debian) configured -- resuming normal operations
[Fri Aug 08 19:55:46.031803 2025] [core:notice] [pid 15229:tid 15229] AH00094: Command line: '/usr/sbin/apache2'

(ryan@kali)-[~]
$ sudo tail -n 5 /var/log/apache2/error.log
[Fri Aug 08 19:55:46.031708 2025] [mpm_prefork:notice] [pid 15229:tid 15229] AH00163: Apache/2.4.65 (Debian) configured -- resuming normal operations
[Fri Aug 08 19:55:46.031803 2025] [core:notice] [pid 15229:tid 15229] AH00094: Command line: '/usr/sbin/apache2'

(ryan@kali)-[~]
$
```

Setelah sengaja mengakses halaman yang tidak ada untuk menghasilkan sebuah error jalankan perintah `error.log`, `tail -n 5` digunakan untuk menampilkan 5 baris terakhir dari sebuah file, dan ini akan menunjukkan catatan akses saat kita membuka halaman web tersebut.