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TUGAS PERTEMUAN 6
ADMINISTRASI DAN INTEGRASI SISTEM
KONFIGURASI WEB SERVER LANJUTAN

Status firewall yang di izinkan (apache)

```
hazbie@ubuntuserver22:~$ sudo ufw allow 'Apache Full'
Rule added
Rule added (v6)
hazbie@ubuntuserver22:~$ sudo ufw status
Status: active
```

To	Action	From
---	-----	----
22	ALLOW	Anywhere
2222/tcp	ALLOW	Anywhere
80/tcp	ALLOW	Anywhere
443/tcp	ALLOW	Anywhere
Samba	ALLOW	Anywhere
53	ALLOW	Anywhere
Bind9	ALLOW	Anywhere
53/udp	ALLOW	Anywhere
53/tcp	ALLOW	Anywhere
Apache Full	ALLOW	Anywhere
22 (v6)	ALLOW	Anywhere (v6)
2222/tcp (v6)	ALLOW	Anywhere (v6)
80/tcp (v6)	ALLOW	Anywhere (v6)
443/tcp (v6)	ALLOW	Anywhere (v6)
Samba (v6)	ALLOW	Anywhere (v6)
53 (v6)	ALLOW	Anywhere (v6)
Bind9 (v6)	ALLOW	Anywhere (v6)
53/udp (v6)	ALLOW	Anywhere (v6)
53/tcp (v6)	ALLOW	Anywhere (v6)
Apache Full (v6)	ALLOW	Anywhere (v6)

Gambar 1.

Setelah Menjalankan perintah (sudo ufw allow 'Apache Full') dan sudo ufw status untuk melihat firewall yang dizinkan apasaja terlampir pada Gambar 1.

Membuat Direktori (portal.qolil.com & webmail.qoli.com)

```
hazbie@ubuntuserver22:~$ sudo ls -l /var/www
total 12
drwxr-xr-x 2 root root 4096 Oct 23 18:33 html
drwxr-xr-x 3 root root 4096 Nov  6 16:19 portal.hazbie.com
drwxr-xr-x 3 root root 4096 Nov  6 16:19 webmail.hazbie.com
```

Gambar 2

Setelah Menjalankan perintah `sudo mkdir -p /var/www/portal.hazbie.com/html` dan `sudo mkdir -p /var/www/webmail.hazbie.com/html` lalu `sudo ls -l /var/www/` untuk menampilkan direktori yang sudah di buat terlampir pada Gambar 2.

Membuat halaman uji coba (portal.hazbie.com & webmail.hazbie.com)

Gambar 3.

Membuat file uji coba dan menjalankan perintah seperti yang terlampira pada gambar 3.

```
hazbie@ubuntu22:~$ sudo tee /var/www/portal.hazbie.com/html/index.html
echo "<h1> Welcome to Hazbie's portal </h1>"
echo "<h1> Welcome to Hazbie's portal </h1>"
^C
hazbie@ubuntu22:~$ sudo tee /var/www/webmail.hazbie.com/html/index.html
echo "<h1> Ini halaman Webmail hazbie.com </h1>"
echo "<h1> Ini halaman Webmail hazbie.com </h1>"
```

Membuat file konfigurasi virtual host

```
GNU nano 6.2 /etc/apache2/sites-available/portal.hazbie.com.conf
<VirtualHost *:80>
    ServerAdmin admin@hazbie.com
    ServerName portal.hazbie.com
    DocumentRoot /var/www/portal.hazbie.com/html

    ErrorLog ${APACHE_LOG_DIR}/portal-error.log
    CustomLog ${APACHE_LOG_DIR}/portal-access.log combined
</VirtualHost>
```

Gambar 4

```
GNU nano 6.2 /etc/apache2/sites-available/webmail.hazbie.com.conf
<VirtualHost *:80>
    ServerAdmin admin@hazbie.com
    ServerName webmail.hazbie.com
    DocumentRoot /var/www/webmail.hazbie.com/html

    ErrorLog ${APACHE_LOG_DIR}/webmail-error.log
    CustomLog ${APACHE_LOG_DIR}/webmail-access.log combined
</VirtualHost>
```

Gambar 5

```
# vim: syntax=apache ts=4 sw=4 sts=4 sr noet
ServerName portal.hazbie.com
```

Gambar 6

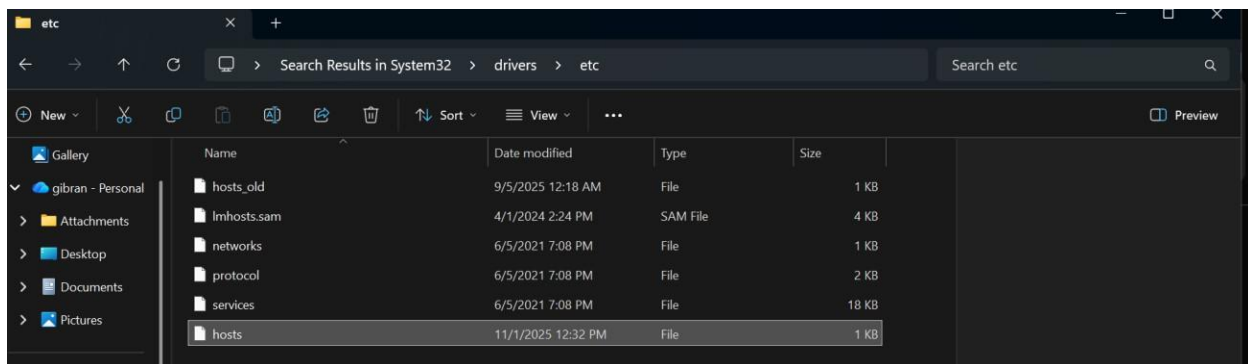
Melakukan konfigurasi untuk portal.hazbie.com dan webmail.hazbie.com dengan menjalankan perintah `sudo nano /etc/apache2/sites-available/portal.hazbie.com.conf`, `sudo nano /etc/apache2/sites-available/webmail.hazbie.com.conf`, `sudo nano /etc/apache2/apache2.conf` lalu mengisi konfigurasi seperti pada Gambar 4, Gambar 5 dan Gambar 6.

Hasil dari Klien (windows)

```
127.0.0.1    DWA.test      #laragon magic!
127.0.0.1    grand-tamansari-residence.test #laragon magic!
127.0.0.1    polargate-jasa.test #laragon magic!
127.0.0.1    polargate-jasa-app.test #laragon magic!

192.168.1.25 portal.hazbie.com
192.168.1.25 webmail.hazbie.com
```

Gambar 7



Gambar 8



Gambar 9. <http://portal.hazbie.com>



Gambar 10. <http://webmail.hazbie.com>

Menjalankan notepad sebagai administrator dan konfigurasi Alamat ip ubuntu server pada host terlampir seperti gambar 7 dan menyimpannya pada direktori klien C:\Windows\System32\drivers\etc terlampir pada Gambar 8. Hasil dari klien tertera pada Gambar 9 dan Gambar 10.

Konfigurasi SSL/TLS (Self-Signed)

```
hazbie@ubuntuserver22:~$ sudo a2enmod ssl
Considering dependency setenvif for ssl:
Module setenvif already enabled
Considering dependency mime for ssl:
Module mime already enabled
Considering dependency socache_shmcb for ssl:
Module socache_shmcb already enabled
Module ssl already enabled
hazbie@ubuntuserver22:~$ _
```

Gambar 11

```

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]:id
State or Province Name (full name) [Some-State]:
Locality Name (eg, city) []:
Organization Name (eg, company) [Internet Widgits Pty Ltd]:
Organizational Unit Name (eg, section) []:
Common Name (e.g. server FQDN or YOUR name) []:portal.hazbie.com
Email Address []:
hazbie@ubuntuserver22:~$ _

```

Gambar 12

```

GNU nano 6.2 /etc/apache2/sites-available/portal.hazbie.com.conf
<VirtualHost *:80>
    ServerAdmin admin@hazbie.ccom
    ServerName portal.hazbie.com
    DocumentRoot /var/www/portal.hazbie.com/html

    ErrorLog ${APACHE_LOG_DIR}/portal-error.log
    CustomLog ${APACHE_LOG_DIR}/portal-access.log combined
</VirtualHost>

<VirtualHost *:443>
    ServerAdmin admin@hazbie.com
    ServerName portal.hazbie.com
    DocumentRoot /var/www/portal.hazbie.com/html

    ErrorLog ${APACHE_LOG_DIR}/portal-error.log
    CustomLog ${APACHE_LOG_DIR}/portal-access.log combined

    SSLEngine on

    SSLCertificateFile /etc/apache2/ssl/portal.crt
    SSLCertificateKeyFile /etc/apache2/ssl/portal.key
</VirtualHost>

```

Gambar 13