

**NAMA : HAZBIE ALFARHIZI SYAHWADANA**

**NIM : 2022230022**

**DOSEN : HERIANTO**

**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 dibuat teralmpir pada Gambar 2.

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

Gambar 3.

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

```
hazbie@ubuntuserver22:~$ 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@ubuntuserver22:~$ sudo tee /var/www/webmail.hazbie.com/html/index.html
echo "<h1> Ini halaman Webmail hazbie.com </h1>"^C
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)

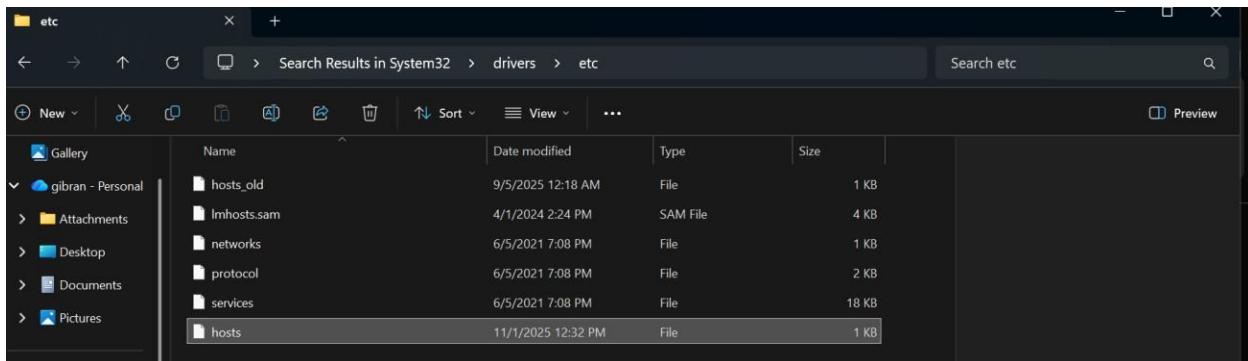
```

127.0.0.1      DVWA.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 configurasi 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.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>  
  
<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