

Laporan Praktikum Modul 2

Kelompok Jarkom C05

Joseph Eric Amadeo S. / 05111840000077 Feinard / 05111840000081

1. Membuat sebuah website utama dengan alamat http://semeruyyy.pw

```
MALANG (on YUDHISTIRA)
 GNU nano 2.7.4
                          File: /etc/bind/named.conf.local
                                                                     Modified
  Do any local configuration here
/ Consider adding the 1918 zones here, if they are not used in your
/ organization
//include "/etc/bind/zones.rfc1918";
zone "semeruc05.pw"{
   type master;
  //notify yes;
  // also-notify { 10,151,77,51; };
  // allow-transfer { 10,151,77,51; };
  // allow-transfer { 10,151,77,52; };
   file "/etc/bind/semeruc05/semeruc05.pw";
zone "77.151.10.in-addr.arpa" {
   type master;
            ^O Write Out ^W Where Is
                                      ^K Cut Text
                                                   ^J Justify
                                                                ^C Cur Pos
G Get Help
               Read File N Replace
                                         Uncut Text
  Exit
                                                      To Spell
                                                                   Go To Line
```

```
MALANG (on YUDHISTIRA)
                                                                              GNU nano 2,7,4
                          File: /etc/bind/semeruc05/semeruc05.pw
; BIND data file for local loopback interface
$TTL
         604800
                          semeruc05.pw. root.semeruc05.pw. (
2020110902 ; Serial
         IN
                 SOA
                                            ; Refresh
                           604800
                             86400
                                            ; Retry
                           2419200
                                            ; Expire
                           604800 )
                                            ; Negative Cache TTL
                                   semeruc05.pw.
10.151.77.52
                 IN
IN
                          NS
```

Hasil ping:

2. Memiliki alias http://www.semeruyyy.pw

```
MALANG (on YUDHISTIRA)
                                                                      GNU nano 2.7.4
                       File: /etc/bind/semeruc05/semeruc05.pw
                                                                     Modified
 BIND data file for local loopback interface
$TTL
       604800
                       semeruc05.pw. root.semeruc05.pw. (
       IN
               SOA
                                       ; Serial
                       2020110902
                        604800
                                       ; Refresh
                         86400
                                       ; Retry
                       2419200
                                       ; Expire
                        604800 )
                                       ; Negative Cache TTL
                       NS
                               semeruc05.pw.
               IN
                               10,151,77,52
                               semeruc05.pw.
               ΙN
                       CNAME
```

Hasil Ping:

```
GRESIK (on YUDHISTIRA)

64 bytes from semeruc05.pw (10.151.77.52): icmp_seq=1 ttl=63 time=0.331 ms
64 bytes from semeruc05.pw (10.151.77.52): icmp_seq=2 ttl=63 time=0.627 ms
64 bytes from semeruc05.pw (10.151.77.52): icmp_seq=3 ttl=63 time=0.438 ms
64 bytes from semeruc05.pw (10.151.77.52): icmp_seq=4 ttl=63 time=0.449 ms
64 bytes from semeruc05.pw (10.151.77.52): icmp_seq=5 ttl=63 time=0.672 ms
64 bytes from semeruc05.pw (10.151.77.52): icmp_seq=6 ttl=63 time=0.731 ms
64 bytes from semeruc05.pw (10.151.77.52): icmp_seq=7 ttl=63 time=0.731 ms
64 bytes from semeruc05.pw (10.151.77.52): icmp_seq=7 ttl=63 time=0.559 ms
64 bytes from semeruc05.pw (10.151.77.52): icmp_seq=8 ttl=63 time=0.559 ms
64 bytes from semeruc05.pw (10.151.77.52): icmp_seq=9 ttl=63 time=0.595 ms
62
---- semeruc05.pw ping statistics ---
9 packets transmitted, 9 received, 0% packet loss, time 8280ms
rtt min/avg/max/mdev = 0.331/0.542/0.731/0.122 ms
root@JARKOM:"# ping www.semeruc05.pw
PING semeruc05.pw (10.151.77.52): icmp_seq=1 ttl=63 time=0.256 ms
64 bytes from semeruc05.pw (10.151.77.52): icmp_seq=2 ttl=63 time=0.395 ms
64 bytes from semeruc05.pw (10.151.77.52): icmp_seq=2 ttl=63 time=0.395 ms
64 bytes from semeruc05.pw (10.151.77.52): icmp_seq=2 ttl=63 time=0.395 ms
64 bytes from semeruc05.pw (10.151.77.52): icmp_seq=4 ttl=63 time=0.395 ms
64 bytes from semeruc05.pw (10.151.77.52): icmp_seq=4 ttl=63 time=0.395 ms
64 bytes from semeruc05.pw (10.151.77.52): icmp_seq=4 ttl=63 time=0.353 ms
64 bytes from semeruc05.pw (10.151.77.52): icmp_seq=4 ttl=63 time=0.353 ms
64 bytes from semeruc05.pw (10.151.77.52): icmp_seq=4 ttl=63 time=0.353 ms
64 bytes from semeruc05.pw (10.151.77.52): icmp_seq=4 ttl=63 time=0.353 ms
64 bytes from semeruc05.pw (10.151.77.52): icmp_seq=4 ttl=63 time=0.353 ms
64 bytes from semeruc05.pw (10.151.77.52): icmp_seq=4 ttl=63 time=0.353 ms
64 bytes from semeruc05.pw (10.151.77.52): icmp_seq=4 ttl=63 time=0.353 ms
65 bytes from semeruc05.pw (10.151.77.52): icmp_seq=4 ttl=63 time=0.353 ms
66 bytes from semeruc05.pw (10.151.77.52
```

3. Memiliki subdomain http://penanjakan.semeruyyy.pw yang diatur DNS-nya pada MALANG dan mengarah ke IP Server PROBOLINGGO

```
MALANG (on YUDHISTIRA)
 GNU nano 2.7.4
                        File: /etc/bind/semeruc05/semeruc05.pw
                                                                        Modified
 BIND data file for local loopback interface
$TTL
        604800
        IN
                SOA
                         semeruc05.pw. root.semeruc05.pw. (
                         2020110902
                                         ; Serial
                         604800
                                         ; Refresh
                          86400
                                         ; Retry
                         2419200
                                         ; Expire
                         604800 )
                                         ; Negative Cache TTL
                        NS
                                 semeruc05.pw.
                                 10,151,77,52
                IN
                        Ĥ
                                 semeruc05.pw.
10.151.77.52
                IN
                        CNAME
penanjakan
```

Hasil ping:

```
GRESIK (on YUDHISTIRA)

Imp_seq=2 ttl=63 time=0.256 ms

64 bytes from semeruc05.pw (10.151.77.52): icmp_seq=4 ttl=63 time=0.533 ms

GRESIK (on YUDHISTIRA)

GRESIK (on YUDHISTIRA)

Imp_seq=4 ttl=63 time=0.518 ms

GRESIK (on YUDHISTIRA)

GRESIK (on YUDHISTIRA)

GRESIK (on YUDHISTIRA)

Imp_seq=4 ttl=63 time=0.548 ms

GRESIK (on YUDHISTIRA)

GRESIC (on YUDHISTIRA)

GR
```

4. Dibuatkan reverse domain untuk domain utama

```
MALANG (on YUDHISTIRA) — 

GNU nano 2.7.4 File: /etc/bind/named.conf.local

notify yes;
also-notify { 10.151.77.51; };
allow-transfer { 10.151.77.51; };
// allow-transfer { 10.151.77.52; };
file "/etc/bind/semeruc05/semeruc05.pw";
};

zone "77.151.10.in-addr.arpa" {
   type master;
   file "/etc/bind/semeruc05/77.151.10.in-addr.arpa";
};
```

```
MALANG (on YUDHISTIRA)
                                                                             GNU nano 2.7.4
                    File: /etc/bind/semeruc05/77.151.10.in-addr.arpa
  BIND data file for local loopback interface
$TTL
        604800
                          semeruc05.pw. root.semeruc05.pw. (
2020110905 ; Serial
604800 ; Refresh
         IN
                 SOA
                            86400
                                            ; Retry
                                            : Expire
                          2419200
                           604800 )
                                            ; Negative Cache TTL
77.151.10.in-addr.arpa. IN
                                   NS
                                           semeruc05.pw.
                          IN
                                   PTR
                                           semeruc05.pw.
```

Hasil Ping:

```
GRESIK (on YUDHISTIRA) — □ &
root@JARKOM:~# host -t PTR 10.151.77.52
52.77.151.10.in-addr.arpa domain name pointer semeruc05.pw.
root@JARKOM:~# ■
```

5. Dibuatkan DNS Server Slave pada MOJOKERTO

```
MALANG (on YUDHISTIRA) — 
GNU nano 2.7.4 File; /etc/bind/named.conf.local

//

// Do any local configuration here

//

// Consider adding the 1918 zones here, if they are not used in your

// organization

//include "/etc/bind/zones.rfc1918";

zone "semeruc05.pw"{
   type master;
   notify yes;
   also-notify { 10.151.77.51; };
   allow-transfer { 10.151.77.52; };
   // allow-transfer { 10.151.77.52; };
   file "/etc/bind/semeruc05/semeruc05.pw";
};
```

```
GNU nano 2.7.4 File: /etc/bind/named.conf.local

//
// Do any local configuration here
//
// Consider adding the 1918 zones here, if they are not used in your
// organization
//include "/etc/bind/zones.rfc1918";

zone "semeruc05.pw" {
   type slave;
   masters { 10.151.77.50; }; // Masukan IP MALANG tanpa tanda petik
   file "/var/lib/bind/semeruc05.pw";
};
```

6. Subdomain dengan alamat http://gunung.semeruyyy.pw yang didelegasikan pada server MOJOKERTO dan mengarah ke IP Server PROBOLINGGO

```
MALANG (on YUDHISTIRA)
                                                                             GNU nano 2.7.4
                         File: /etc/bind/semeruc05/semeruc05.pw
  BIND data file for local loopback interface
$TTL
        604800
                         semeruc05.pw. root.semeruc05.pw. (
2020110902 ; Serial
        IN
                 SOA
                          604800
                                           ; Refresh
                                           ; Retry
                           86400
                          2419200
                                           ; Expire
                          604800 )
                                           ; Negative Cache TTL
                         NS
                                  semeruc05.pw.
                 IN
                                  10,151,77,52
                                  semeruc05.pw.
10.151.77.52
                 IN
                         CNAME
                 IN
penanjakan
                 IN
www.penanjakan
                          CNAME
                                  penanjakan
                                  10,151,77,52
ns1
                 ΙN
                          Ĥ.
gunung
                 IN
                         NS
```

```
GNU nano 2.7.4 File: /etc/bind/named.conf.local

//

// Do any local configuration here

// Consider adding the 1918 zones here, if they are not used in your

// organization

//include "/etc/bind/zones.rfc1918";

zone "semeruc05.pw" {
    type slave;
    masters { 10.151.77.50; }; // Masukan IP MALANG tanpa tanda petik
    file "/var/lib/bind/semeruc05.pw";

};

zone "gunung.semeruc05.pw" {
    type master;
    file "/etc/bind/gunung/gunung.semeruc05.pw";
    allow-transfer {any;};

};
```

```
MOJOKERTO (on YUDHISTIRA)
                                                                          GNU nano 2,7,4
                      File: /etc/bind/gunung/gunung.semeruc05.pw
: BIND data file for local loopback interface
$TTL
        604800
        IN
                SOA
                         gunung,semeruc05.pw. root.gunung,semeruc05.pw. (
                                         ; Serial
; Refresh
                         2020110901
                          604800
                           86400
                                         : Retry
                         2419200
                                         ; Expire
                          604800 )
                                         ; Negative Cache TTL
.00
                         gunung.semeruc05.pw.
10.151.77.52
        IN
                NS
        IN
                Ĥ
        IN
                         10,151,77,52
naik
                Ĥ
```

```
Debian GNU/Linux comes with ABSOLUTELY NO WARRANTY, to the extent permitted by applicable law. root@JARKOM: # ping gunung.smeruc05.pw
NET: Registered protocol family 10
^C
root@JARKOM: # ping gunung.semeruc05.pw
PING gunung.semeruc05.pw (10.151.77.52) 56(84) bytes of data.
64 bytes from semeruc05.pw (10.151.77.52): icmp_seq=1 ttl=63 time=1.08 ms
64 bytes from semeruc05.pw (10.151.77.52): icmp_seq=2 ttl=63 time=0.250 ms
64 bytes from semeruc05.pw (10.151.77.52): icmp_seq=3 ttl=63 time=0.276 ms
^C
--- gunung.semeruc05.pw ping statistics ---
3 packets transmitted, 3 received, 0% packet loss, time 2044ms
rtt min/avg/max/mdev = 0.250/0.535/1.081/0.386 ms
root@JARKOM: # ping naik.gunung.semeruc05.pw
PING naik.gunung.semeruc05.pw (10.151.77.52) 56(84) bytes of data.
64 bytes from semeruc05.pw (10.151.77.52): icmp_seq=1 ttl=63 time=0.249 ms
64 bytes from semeruc05.pw (10.151.77.52): icmp_seq=2 ttl=63 time=0.490 ms
^C
```

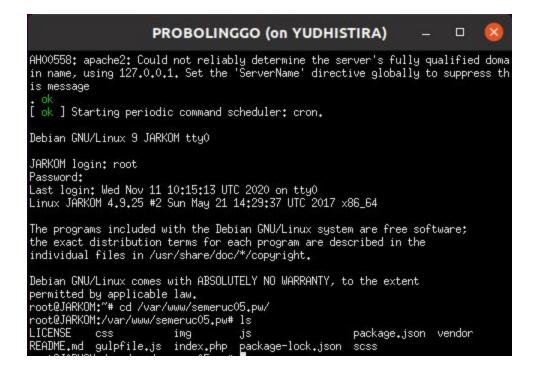
7. Dibuatkan subdomain dengan nama

http://naik.gunung.semeruyyy.pw, domain ini diarahkan ke IP Server PROBOLINGGO

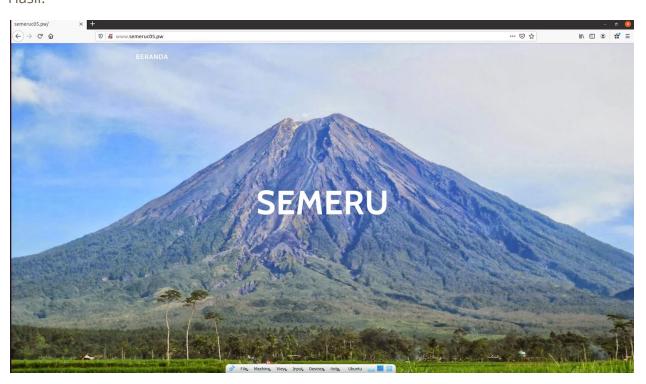
```
MOJOKERTO (on YUDHISTIRA)
                                                                        GNU nano 2,7,4
                      File: /etc/bind/gunung/gunung.semeruc05.pw
 BIND data file for local loopback interface
$TTL
        604800
        IN
                SOA
                        gunung.semeruc05.pw. root.gunung.semeruc05.pw. (
                                        ; Serial
                        2020110901
                         604800
                                        ; Refresh
                          86400
                                        ; Retry
                        2419200
                                         ; Expire
                         604800 )
                                        ; Negative Cache TTL
....
                        gunung.semeruc05.pw.
10.151.77.52
        IN
                NS
        IN
                Ĥ
        IN
naik
                Ĥ
                        10,151,77,52
```

```
Debian GNU/Linux comes with ABSOLUTELY NO WARRANTY, to the extent permitted by applicable law.
root@JARKOM:"# ping gunung.smeruc05.pw
NET: Registered protocol family 10
℃
root@JARKOM:"# ping gunung.semeruc05.pw
PING gunung.semeruc05.pw (10.151.77.52) 56(84) bytes of data.
64 bytes from semeruc05.pw (10.151.77.52): icmp_seq=1 tt1=63 time=1.08 ms
64 bytes from semeruc05.pw (10.151.77.52): icmp_seq=2 tt1=63 time=0.250 ms
64 bytes from semeruc05.pw (10.151.77.52): icmp_seq=3 tt1=63 time=0.276 ms
℃
--- gunung.semeruc05.pw ping statistics ---
3 packets transmitted, 3 received, 0% packet loss, time 2044ms
rtt min/avg/max/mdev = 0.250/0.535/1.081/0.386 ms
root@JARKOM:"# ping naik.gunung.semeruc05.pw
PING naik.gunung.semeruc05.pw (10.151.77.52): icmp_seq=1 tt1=63 time=0.249 ms
64 bytes from semeruc05.pw (10.151.77.52): icmp_seq=2 tt1=63 time=0.490 ms
℃
--- naik.gunung.semeruc05.pw ping statistics ---
2 packets transmitted, 2 received, 0% packet loss, time 1001ms
rtt min/avg/max/mdev = 0.249/0.369/0.490/0.122 ms
```

8. Mengatur web server dengan Domain http://semeruyyy.pw memiliki DocumentRoot pada /var/www/semeruyyy.pw

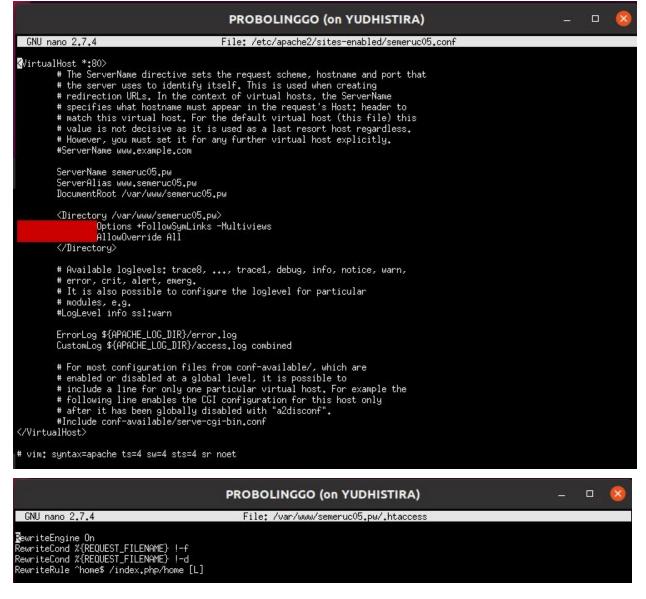


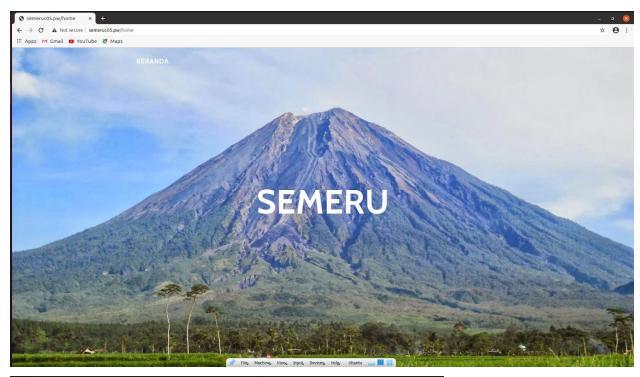


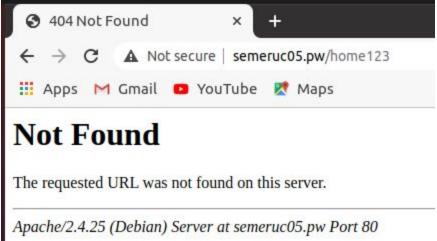


9. Diaktifkan mod rewrite agar url alamat

http://semeruyyy.pw/index.php/home menjadi
http://semeruyyy.pw/home







10. Web http://penanjakan.semeruyyy.pw akan digunakan untuk menyimpan assets file yang memiliki DocumentRoot pada /var/www/penanjakan.semeruyyy.pw

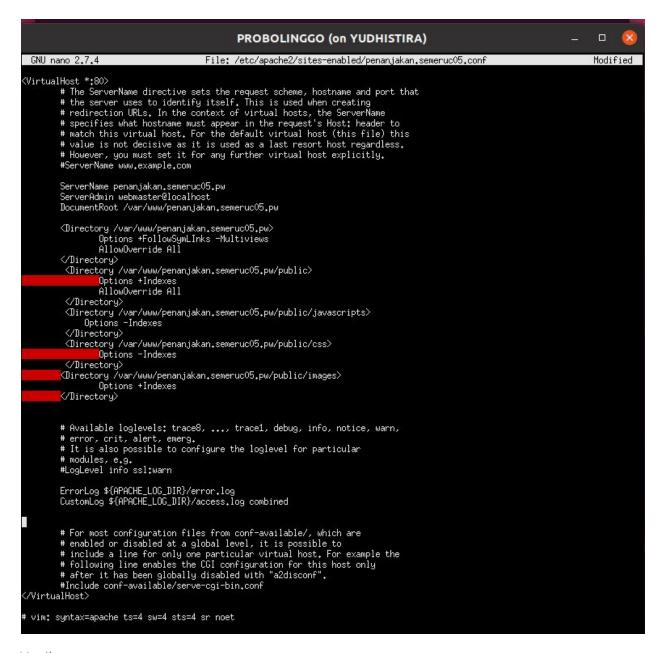
Memiliki struktur folder sebagai berikut: /var/www/penanjakan.semeruyyy.pw /public/javascripts /public/css

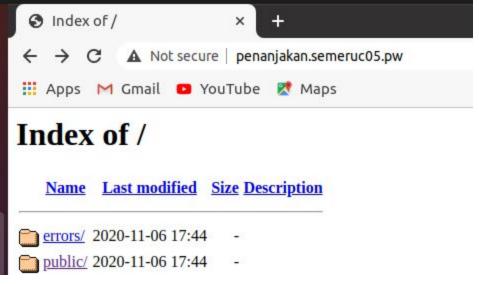
/public/images

/errors

Jawaban:



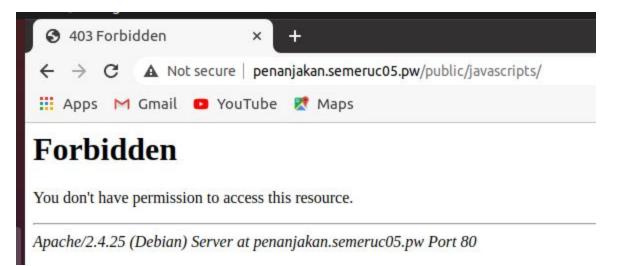




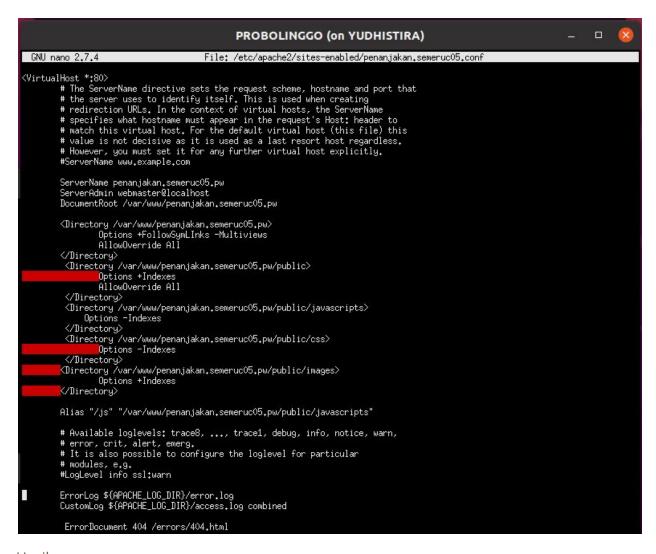


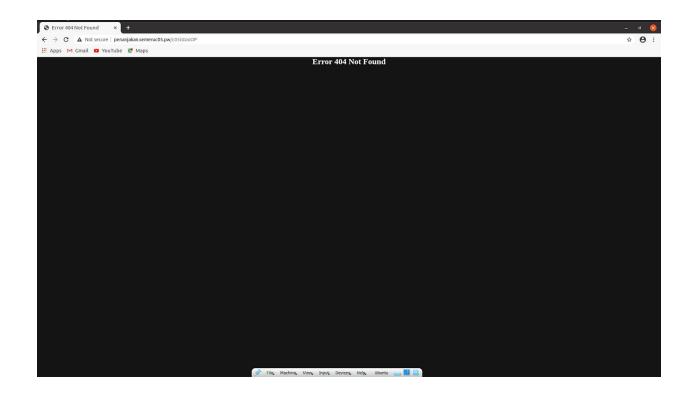
11. Pada folder /public dibolehkan directory listing namun untuk folder yang berada di dalamnya tidak dibolehkan





12. Disediakan file 404.html pada folder /errors untuk mengganti error default 404 dari Apache

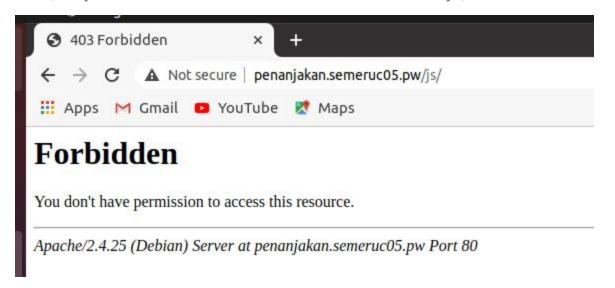




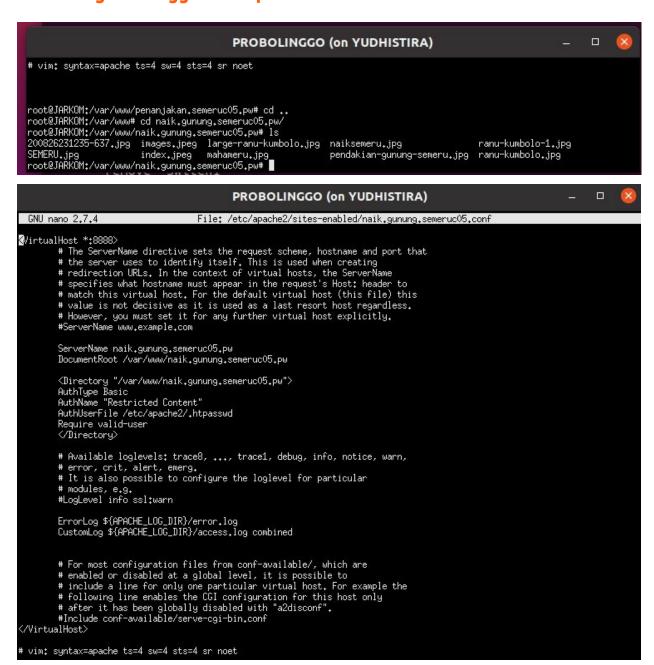
13. Dibuatkan konfigurasi virtual host agar ketika mengakses file assets menjadi http://penanjakan.semeruyyy.pw/js



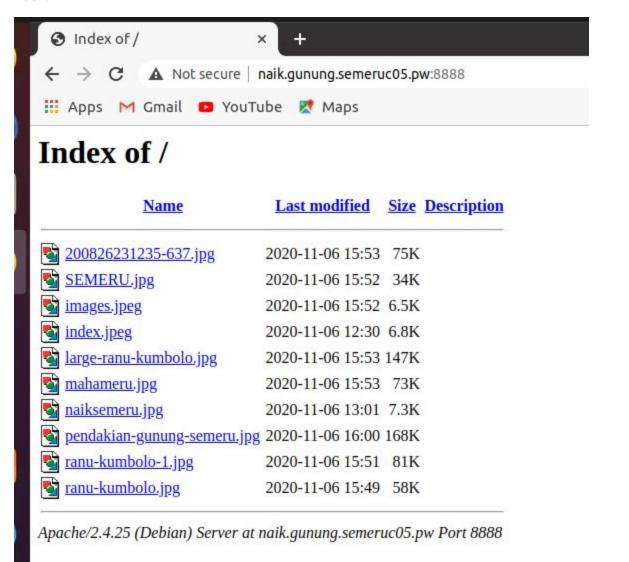
Hasil (menjadi forbidden dikarenakan ketentuan soal sebelumnya):



14. Web http://naik.gunung.semeruyyy.pw sudah bisa diakses hanya dengan menggunakan port 8888



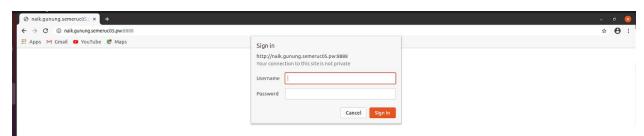




15. Web http://naik.gunung.semeruyyy.pw diberi autentikasi password dengan username "semeru" dan password "kuynaikgunung"

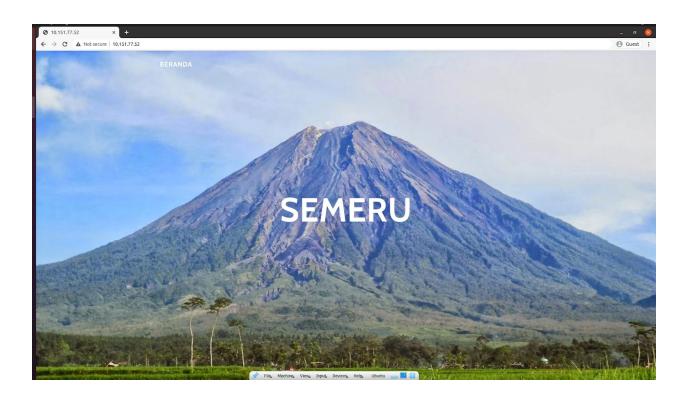


root@JARKOM:/var/www/naik.gunung.semeruc05.pw# cat /etc/apache2/.htpasswd semeru:\$apr1\$T5ia7YYK\$OdNr0CTV4cMbWmAu2Iewv0 root@JARKOM:/var/www/naik.gunung.semeruc05.pw#



16. Setiap kali mengunjungi IP PROBOLINGGO akan dialihkansecara otomatis ke http://semeruyyy.pw





17. Pengunjung

/var/www/penanjakan.semeruyyy.pw/public/images sangat banyak. Semua request gambar yang memiliki substring "semeru" akan diarahkan menuju semeru.jpg



