

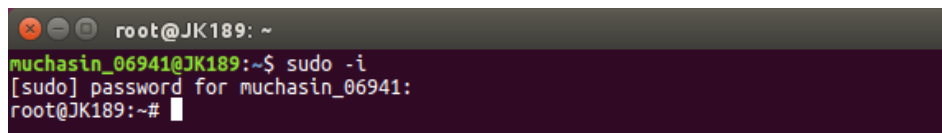
TUGAS PRAKTIKUM

SOAL PRAKTIKUM

Pada Modul V(Lima), kalian telah membuat sebuah DNS Server yang sudah dapat diakses oleh kedua client. Sekarang, buat Web Server sesuai dengan DNS yang telah kalian buat sebelumnya(**Boleh menggunakan template**). Pada domain utama, sediakan juga pintasan/link untuk menuju ke setiap sub domain. Pada sub domain, buat tampilan sesuai dengan nama sub domainnya, lalu buat agar tampilan lebih menarik(**60 poin**).

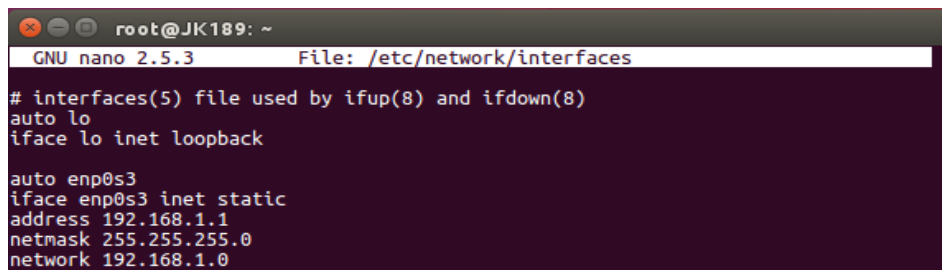
Jawaban :

1. Login sebagai root



```
root@JK189: ~  
muchasin_06941@JK189:~$ sudo -i  
[sudo] password for muchasin_06941:  
root@JK189:~#
```

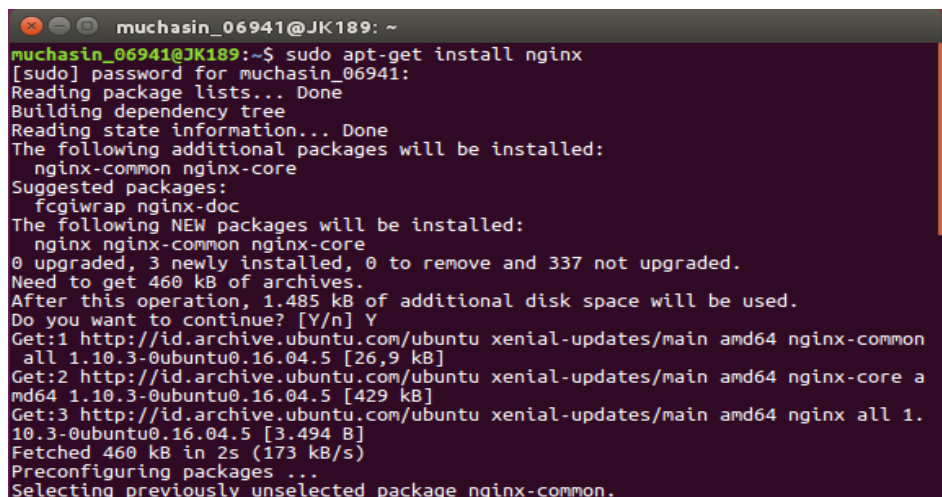
2. Set IP menjadi 192.168.1.1/24 dan buat domain dengan nama jarkom.com



```
GNU nano 2.5.3 File: /etc/network/interfaces  
  
# interfaces(5) file used by ifup(8) and ifdown(8)  
auto lo  
iface lo inet loopback  
  
auto enp0s3  
iface enp0s3 inet static  
address 192.168.1.1  
netmask 255.255.255.0  
network 192.168.1.0
```

3. Lalu install Nginx dengan perintah:

apt-get install nginx



```
muchasin_06941@JK189: ~  
muchasin_06941@JK189:~$ sudo apt-get install nginx  
[sudo] password for muchasin_06941:  
Reading package lists... Done  
Building dependency tree  
Reading state information... Done  
The following additional packages will be installed:  
  nginx-common nginx-core  
Suggested packages:  
  fcgiwrap nginx-doc  
The following NEW packages will be installed:  
  nginx nginx-common nginx-core  
0 upgraded, 3 newly installed, 0 to remove and 337 not upgraded.  
Need to get 460 kB of archives.  
After this operation, 1.485 kB of additional disk space will be used.  
Do you want to continue? [Y/n] Y  
Get:1 http://id.archive.ubuntu.com/ubuntu xenial-updates/main amd64 nginx-common  
all 1.10.3-0ubuntu0.16.04.5 [26,9 kB]  
Get:2 http://id.archive.ubuntu.com/ubuntu xenial-updates/main amd64 nginx-core a  
md64 1.10.3-0ubuntu0.16.04.5 [429 kB]  
Get:3 http://id.archive.ubuntu.com/ubuntu xenial-updates/main amd64 nginx all 1.  
10.3-0ubuntu0.16.04.5 [3,494 B]  
Fetched 460 kB in 2s (173 kB/s)  
Preconfiguring packages ...  
Selecting previously unselected package nginx-common.
```

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4. Install MySQL Server dengan perintah:

apt-get install mysql-server

```
muchasin_06941@JK189: ~
muchasin_06941@JK189:~$ sudo apt-get install mysql-server
[sudo] password for muchasin_06941:
Reading package lists... Done
Building dependency tree
Reading state information... Done
The following additional packages will be installed:
  libaio1 libevent-core-2.0-5 libhtml-template-perl mysql-client-5.7
  mysql-client-core-5.7 mysql-common mysql-server-5.7 mysql-server-core-5.7
Suggested packages:
  libipc-sharedcache-perl mailx tinycd
The following NEW packages will be installed:
  libaio1 libevent-core-2.0-5 libhtml-template-perl mysql-client-5.7
  mysql-client-core-5.7 mysql-common mysql-server mysql-server-5.7
  mysql-server-core-5.7
0 upgraded, 9 newly installed, 0 to remove and 337 not upgraded.
Need to get 17,7 MB of archives.
After this operation, 156 MB of additional disk space will be used.
Do you want to continue? [Y/n] Y
Get:1 http://id.archive.ubuntu.com/ubuntu xenial-updates/main amd64 mysql-common
  all 5.7.30-0ubuntu0.16.04.1 [14,8 kB]
Get:2 http://id.archive.ubuntu.com/ubuntu xenial/main amd64 libaio1 amd64 0.3.11
  0-2 [6.356 B]
Get:3 http://id.archive.ubuntu.com/ubuntu xenial-updates/main amd64 mysql-client
  -core-5.7 amd64 5.7.30-0ubuntu0.16.04.1 [6.231 kB]
```

5. Jalankan Service Nginx dengan perintah:

service nginx start

Atau

/etc/init.d/nginx start

```
root@JK189: ~
muchasin_06941@JK189:~$ sudo -i
[sudo] password for muchasin_06941:
root@JK189:~# service nginx start
root@JK189:~#
```

6. Install php7 fpm dengan perintah:

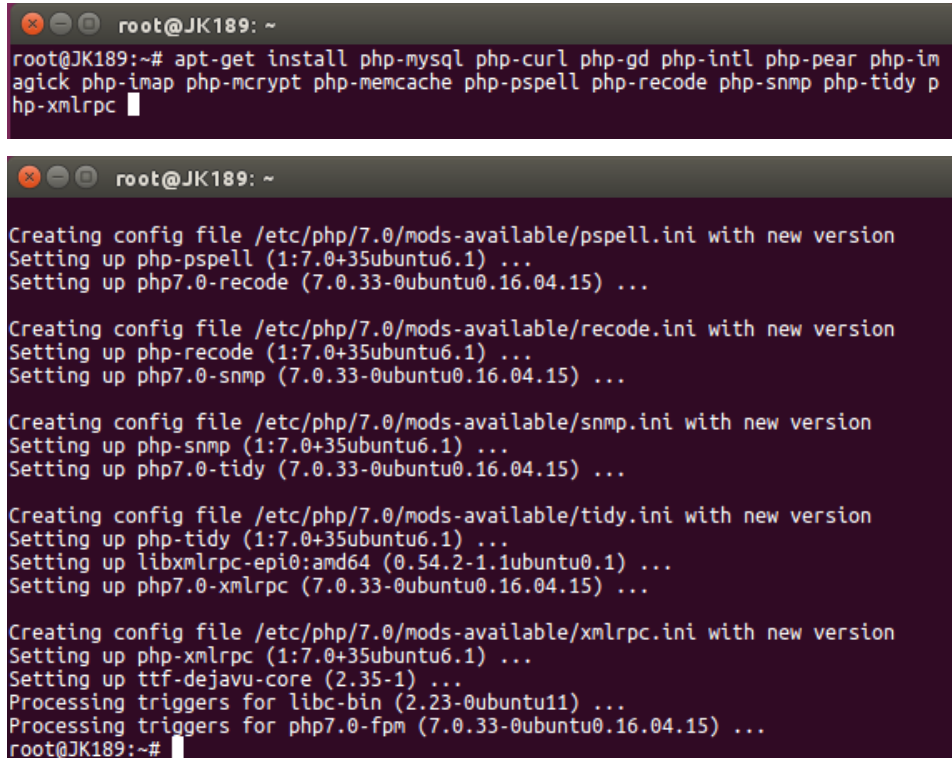
apt-get install php-fpm

```
root@JK189: ~
root@JK189:~# apt-get install php-fpm
Reading package lists... Done
Building dependency tree
Reading state information... Done
The following additional packages will be installed:
  php-common php7.0-cli php7.0-common php7.0-fpm php7.0-json php7.0-opcache
  php7.0-readline
Suggested packages:
  php-pear
The following NEW packages will be installed:
  php-common php-fpm php7.0-cli php7.0-common php7.0-fpm php7.0-json
  php7.0-opcache php7.0-readline
0 upgraded, 8 newly installed, 0 to remove and 337 not upgraded.
Need to get 3.539 kB of archives.
After this operation, 14,1 MB of additional disk space will be used.
Do you want to continue? [Y/n] Y
Get:1 http://id.archive.ubuntu.com/ubuntu xenial-updates/main amd64 php-common a
  ll 1:35ubuntu6.1 [10,8 kB]
Get:2 http://id.archive.ubuntu.com/ubuntu xenial-updates/main amd64 php7.0-commo
  n amd64 7.0.33-0ubuntu0.16.04.15 [846 kB]
Get:3 http://id.archive.ubuntu.com/ubuntu xenial-updates/main amd64 php7.0-json
  amd64 7.0.33-0ubuntu0.16.04.15 [16,9 kB]
Get:4 http://id.archive.ubuntu.com/ubuntu xenial-updates/main amd64 php7.0-opcac
  he amd64 7.0.33-0ubuntu0.16.04.15 [77,2 kB]
```

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7. Install paket agar mysql support dengan php7 dengan perintah:

```
# apt-get install php-mysql php-curl php-gd php-intl php-pear php-imagick php-imap php-mcrypt php-memcache php-pspell php-recode php-snmp php-tidy php-xmlrpc
```



```
root@JK189: ~  
root@JK189:~# apt-get install php-mysql php-curl php-gd php-intl php-pear php-imagick php-imap php-mcrypt php-memcache php-pspell php-recode php-snmp php-tidy php-xmlrpc  
  
Creating config file /etc/php/7.0/mods-available/pspell.ini with new version  
Setting up php-pspell (1:7.0+35ubuntu6.1) ...  
Setting up php7.0-recode (7.0.33-0ubuntu0.16.04.15) ...  
  
Creating config file /etc/php/7.0/mods-available/recode.ini with new version  
Setting up php-recode (1:7.0+35ubuntu6.1) ...  
Setting up php7.0-snmp (7.0.33-0ubuntu0.16.04.15) ...  
  
Creating config file /etc/php/7.0/mods-available/snmp.ini with new version  
Setting up php-snmp (1:7.0+35ubuntu6.1) ...  
Setting up php7.0-tidy (7.0.33-0ubuntu0.16.04.15) ...  
  
Creating config file /etc/php/7.0/mods-available/tidy.ini with new version  
Setting up php-tidy (1:7.0+35ubuntu6.1) ...  
Setting up libxmlrpc-epi0:amd64 (0.54.2-1.1ubuntu0.1) ...  
Setting up php7.0-xmlrpc (7.0.33-0ubuntu0.16.04.15) ...  
  
Creating config file /etc/php/7.0/mods-available/xmlrpc.ini with new version  
Setting up php-xmlrpc (1:7.0+35ubuntu6.1) ...  
Setting up ttf-dejavu-core (2.35-1) ...  
Processing triggers for libc-bin (2.23-0ubuntu11) ...  
Processing triggers for php7.0-fpm (7.0.33-0ubuntu0.16.04.15) ...  
root@JK189:~#
```

8. Lalu kita buat agar php-fpm menggunakan koneksi TCP dengan mengedit file “/etc/php/7.0/fpm/pool.d/www.conf”

```
# nano /etc/php/7.0/fpm/pool.d/www.conf
```



```
GNU nano 2.5.3 File: /etc/php/7.0/fpm/pool.d/www.conf Modified  
  
; a specific port;  
; '[ip:6:addr:ess]:port' - to listen on a TCP socket to a specific IPv6 address  
; a specific port;  
; 'port' - to listen on a TCP socket to all addresses  
; (IPv6 and IPv4-mapped) on a specific port;  
; '/path/to/unix/socket' - to listen on a unix socket.  
; Note: This value is mandatory.  
;listen = /run/php/php7.0-fpm.sock  
listen = 127.0.0.1:9000  
; Set listen(2) backlog  
; Default Value: 511 (-1 on FreeBSD and OpenBSD)  
;listen.backlog = 511
```

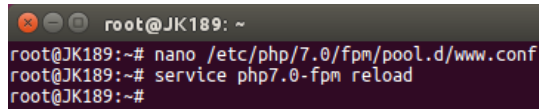
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9. Lalu reload service php7-fpm dengan perintah:

```
# service php7.0-fpm reload
```

Atau

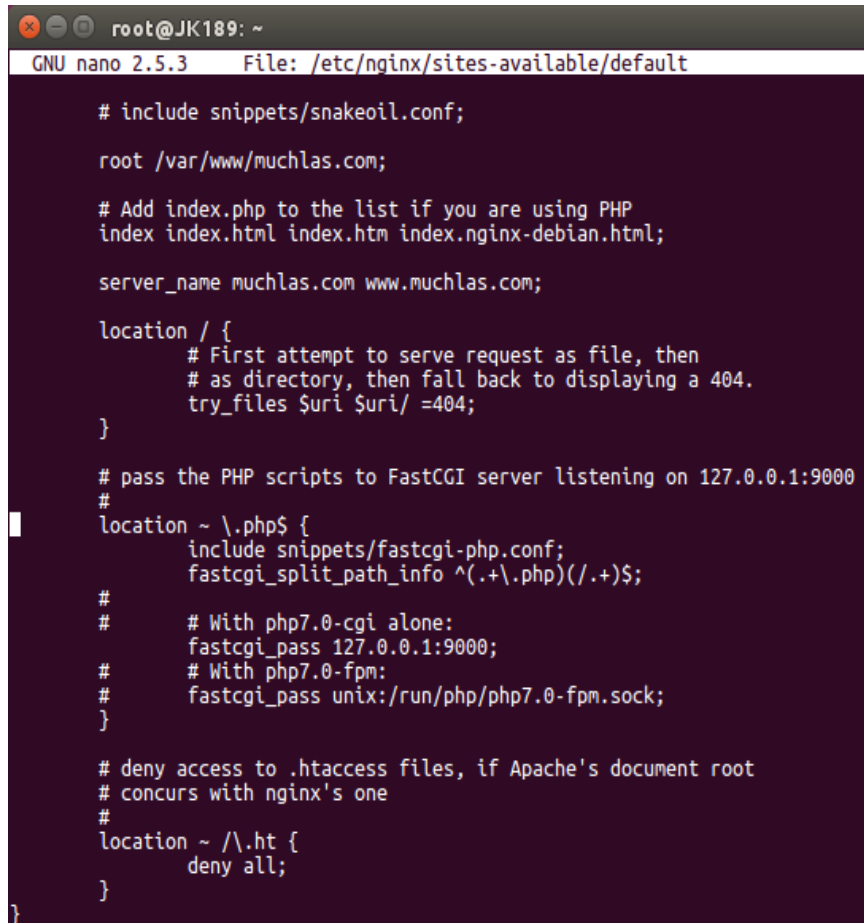
```
# /etc/init.d/php7.0-fpm reload
```



```
root@JK189: ~  
root@JK189:~# nano /etc/php/7.0/fpm/pool.d/www.conf  
root@JK189:~# service php7.0-fpm reload  
root@JK189:~#
```

10. Edit file “/etc/nginx/sites-available/default” dengan perintah:

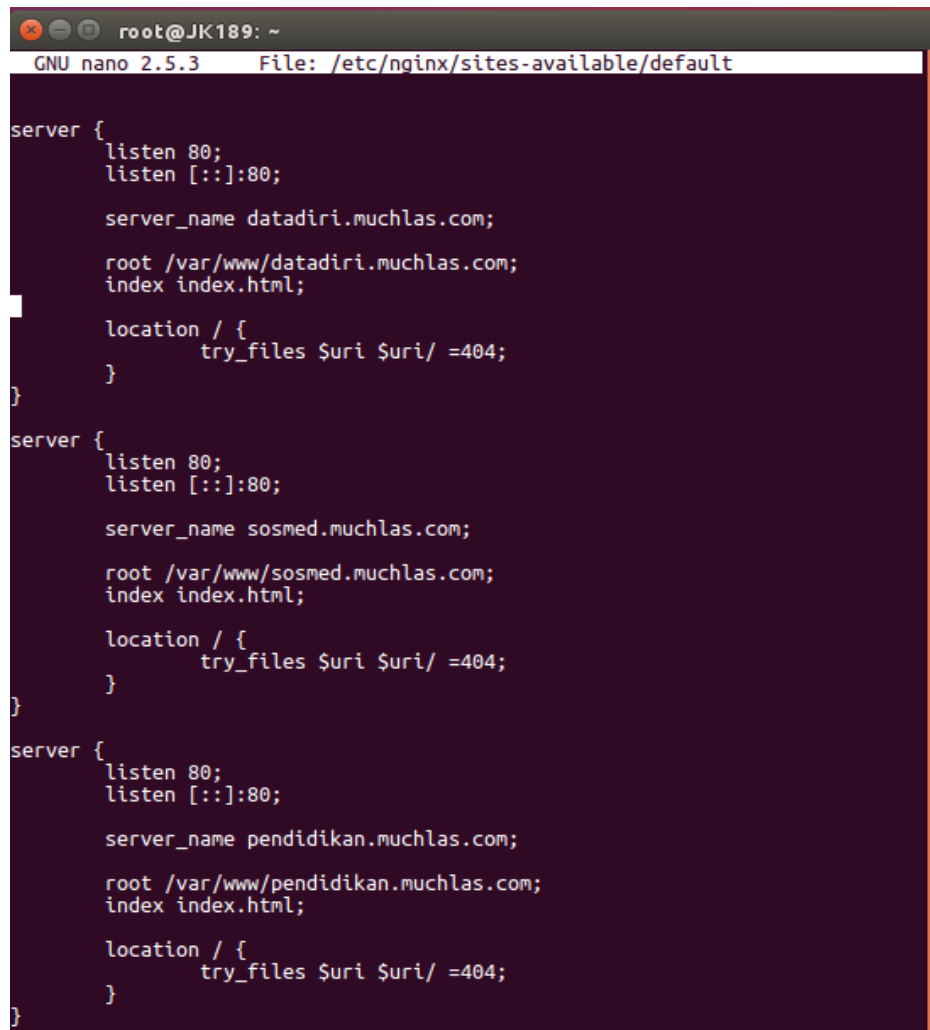
```
# nano /etc/nginx/sites-available/default
```



```
GNU nano 2.5.3 File: /etc/nginx/sites-available/default  
  
# include snippets/snakeoil.conf;  
  
root /var/www/muchlas.com;  
  
# Add index.php to the list if you are using PHP  
index index.html index.htm index.nginx-debian.html;  
  
server_name muchlas.com www.muchlas.com;  
  
location / {  
    # First attempt to serve request as file, then  
    # as directory, then fall back to displaying a 404.  
    try_files $uri $uri/ =404;  
}  
  
# pass the PHP scripts to FastCGI server listening on 127.0.0.1:9000  
#  
location ~ \.php$ {  
    include snippets/fastcgi-php.conf;  
    fastcgi_split_path_info ^(.+\.php)(/.+)$;  
  
    #  
    # With php7.0-cgi alone:  
    fastcgi_pass 127.0.0.1:9000;  
    # With php7.0-fpm:  
    fastcgi_pass unix:/run/php/php7.0-fpm.sock;  
}  
  
# deny access to .htaccess files, if Apache's document root  
# concurs with nginx's one  
#  
location ~ /\.ht {  
    deny all;  
}  
}
```

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Kemudian tambahkan konfigurasi sebagai berikut :



```
GNU nano 2.5.3 File: /etc/nginx/sites-available/default

server {
    listen 80;
    listen [::]:80;

    server_name datadiri.muchlas.com;

    root /var/www/datadiri.muchlas.com;
    index index.html;

    location / {
        try_files $uri $uri/ =404;
    }
}

server {
    listen 80;
    listen [::]:80;

    server_name sosmed.muchlas.com;

    root /var/www/sosmed.muchlas.com;
    index index.html;

    location / {
        try_files $uri $uri/ =404;
    }
}

server {
    listen 80;
    listen [::]:80;

    server_name pendidikan.muchlas.com;

    root /var/www/pendidikan.muchlas.com;
    index index.html;

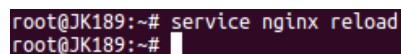
    location / {
        try_files $uri $uri/ =404;
    }
}
```

11. Save konfigurasi dan restart nginx dengan perintah:

service nginx reload

Atau

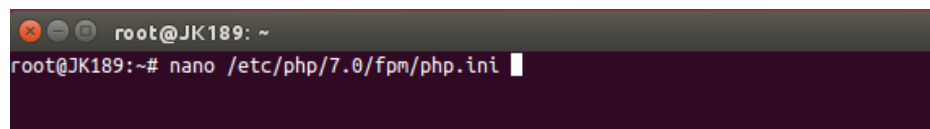
/etc/init.d/nginx reload



```
root@JK189:~# service nginx reload
root@JK189:~#
```

12. Edit file “/etc/php/7.0/fpm/php.ini” seperti berikut:

nano /etc/php/7.0/fpm/php.ini



```
root@JK189:~# nano /etc/php/7.0/fpm/php.ini
```

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```
root@JK189: ~
GNU nano 2.5.3 File: /etc/php/7.0/fpm/php.ini Modified
; cgi.fix_pathinfo provides *real* PATH_INFO/PATH_TRANSLATED support for CGI. $
; previous behaviour was to set PATH_TRANSLATED to SCRIPT_FILENAME, and to not $
; what PATH_INFO is. For more information on PATH_INFO, see the cgi specs. Se$
; this to 1 will cause PHP CGI to fix its paths to conform to the spec. A sett$
; of zero causes PHP to behave as before. Default is 1. You should fix your s$
; to use SCRIPT_FILENAME rather than PATH_TRANSLATED.
; http://php.net/cgi.fix-pathinfo
cgi.fix_pathinfo=0
```

13. Buat folder baru pada folder /var/www/html sebagai berikut :

```
root@JK189: /var/www
root@JK189:~# cd /var/www/
root@JK189:/var/www# mkdir muchlas.com datadiri.muchlas.com sosmed.muchlas.com p
endidikan.muchlas.com
```

14. Copykan file web ke folder namapanggilan.com

```
root@JK189: ~
root@JK189:~# cp /home/muchasin_06941/Downloads/templated-privy.zip /var/www/muc
hlas.com
root@JK189:~#
```

15. Chek file apakah sudah tercopy ke folder tersebut

```
root@JK189: /var/www/muchlas.com
root@JK189:~# cp /home/muchasin_06941/Downloads/templated-privy.zip /var/www/muc
hlas.com
root@JK189:~# cd /var/www/muchlas.com
root@JK189:/var/www/muchlas.com# ls
templated-privy.zip
root@JK189:/var/www/muchlas.com#
```

16. Beri hak akses terhadap file tersebut,

```
root@JK189: /var/www/muchlas.com
root@JK189:/var/www/muchlas.com# chmod +x templated-privy.zip
root@JK189:/var/www/muchlas.com#
```

17. Ekstrak file zip tersebut

```
root@JK189: /var/www/muchlas.com
root@JK189:/var/www/muchlas.com# chmod +x templated-privy.zip
root@JK189:/var/www/muchlas.com# unzip templated-privy.zip
Archive: templated-privy.zip
  inflating: index.html
  inflating: images/pic02.jpg
  inflating: images/pic01.jpg
  inflating: license.txt
  inflating: fonts/FontAwesome.otf
  inflating: fonts/fontawesome-webfont.woff
  inflating: fonts/fontawesome-webfont.eot
  inflating: fonts/fontawesome-webfont.ttf
  inflating: fonts/fontawesome-webfont.svg
  inflating: default.css
  inflating: fonts.css
root@JK189:/var/www/muchlas.com# ls
default.css  fonts.css  index.html  templated-privy.zip
fonts        images     license.txt
root@JK189:/var/www/muchlas.com#
```


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18. Edit file index.html

```
root@JK189: /var/www/muchlas.com
GNU nano 2.5.3 File: index.html Modified

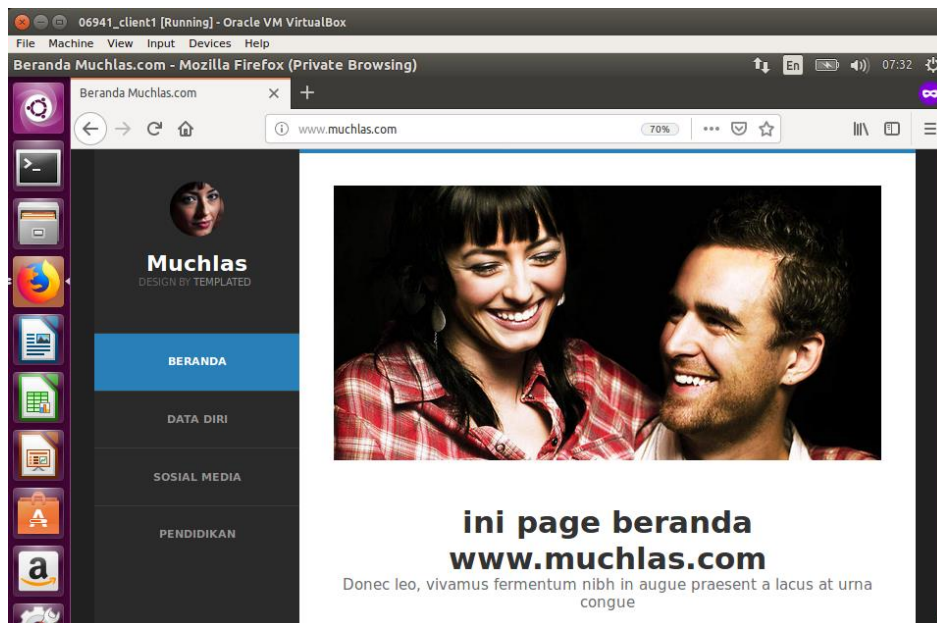
<link href="fonts.css" rel="stylesheet" type="text/css" media="all" />

<!--[if IE 6]><link href="default_ie6.css" rel="stylesheet" type="text/css" /><![endif]-->

</head>
<body>
<div id="page" class="container">
  <div id="header">
    <div id="logo">
      
      <h1><a href="#">Muchlas</a></h1>
      <span>Design by <a href="http://templated.co" rel="nofollow">TEMPLATED</a></span>
    </div>
    <div id="menu">
      <ul>
        <li class="current_page_item"><a href="http://www.muchlas.com" accesskey="1" ti$
        <li><a href="http://datadiri.muchlas.com" accesskey="2" title="">Data Diri</a><$
        <li><a href="http://sosmed.muchlas.com" accesskey="3" title="">Sosial Media</a><$
        <li><a href="http://pendidikan.muchlas.com" accesskey="4" title="">Pendidikan</$
      </ul>
    </div>
  </div>
</div>
```

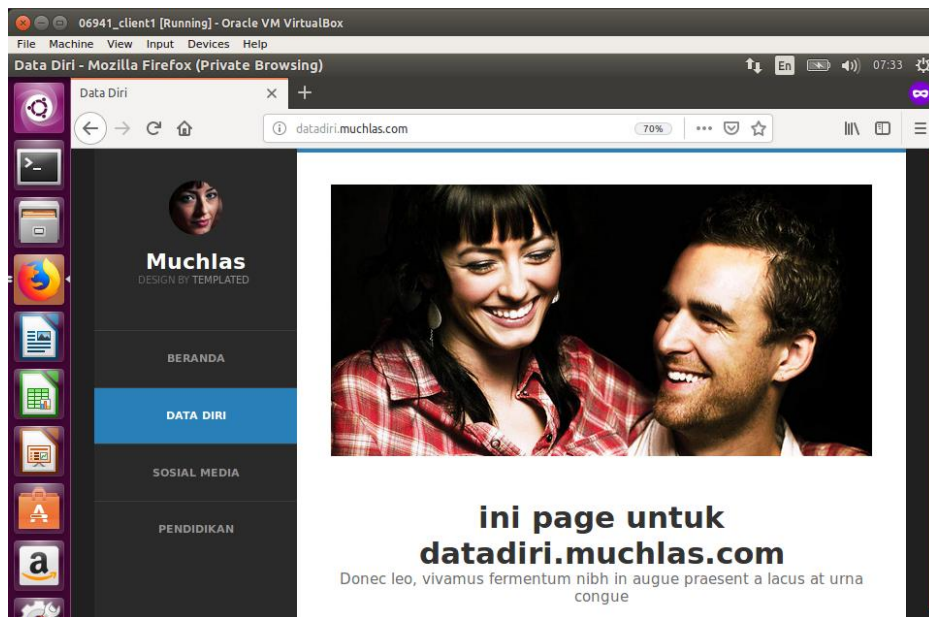
19. Dan hasil akhirnya ialah sebagai berikut

a. Client 1

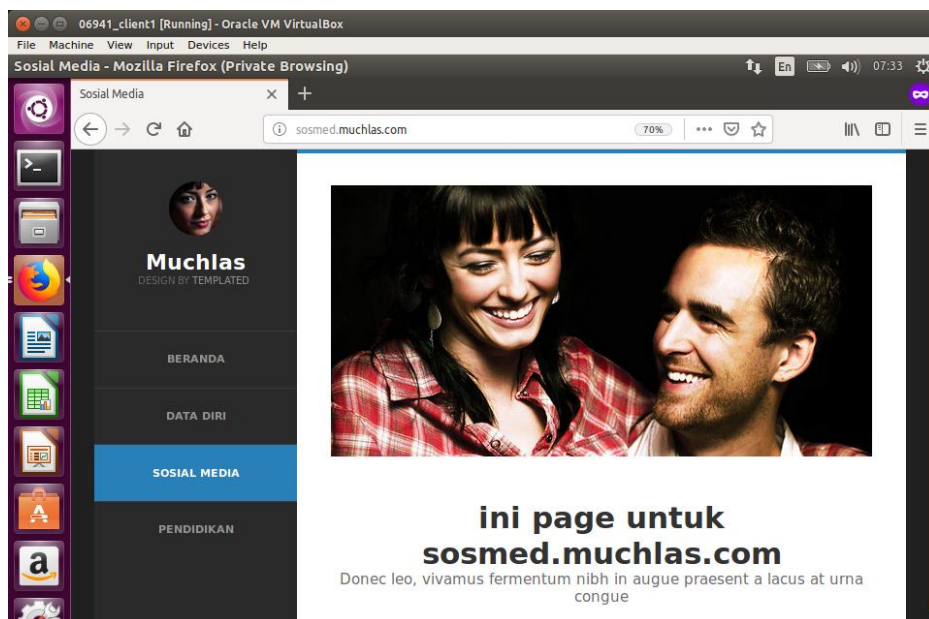


namapanggilan.com

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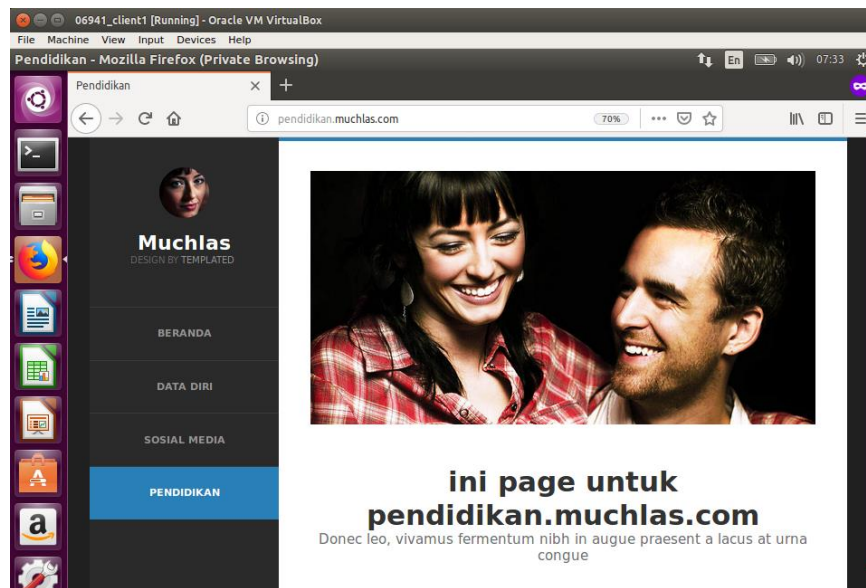


datadiri.namapanggilan.com



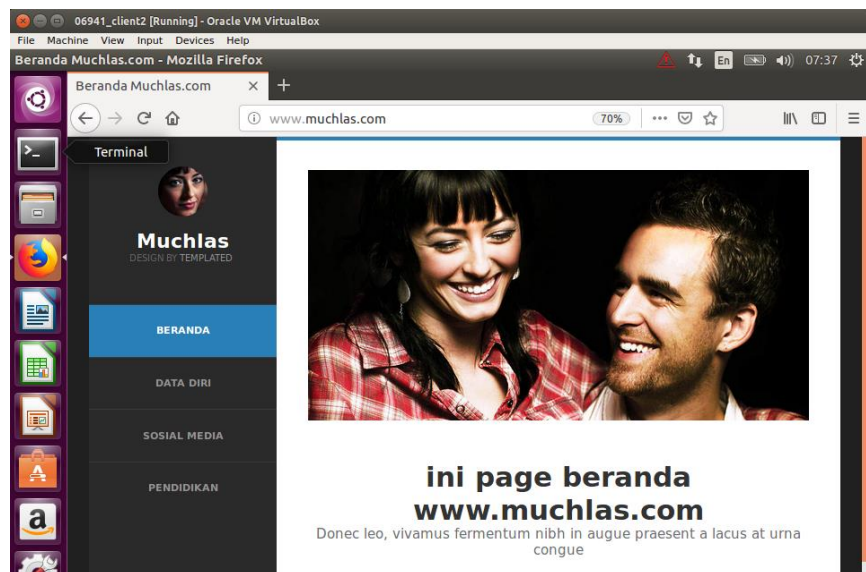
sosmed.namapanggilan.com

TUGAS PRAKTIKUM



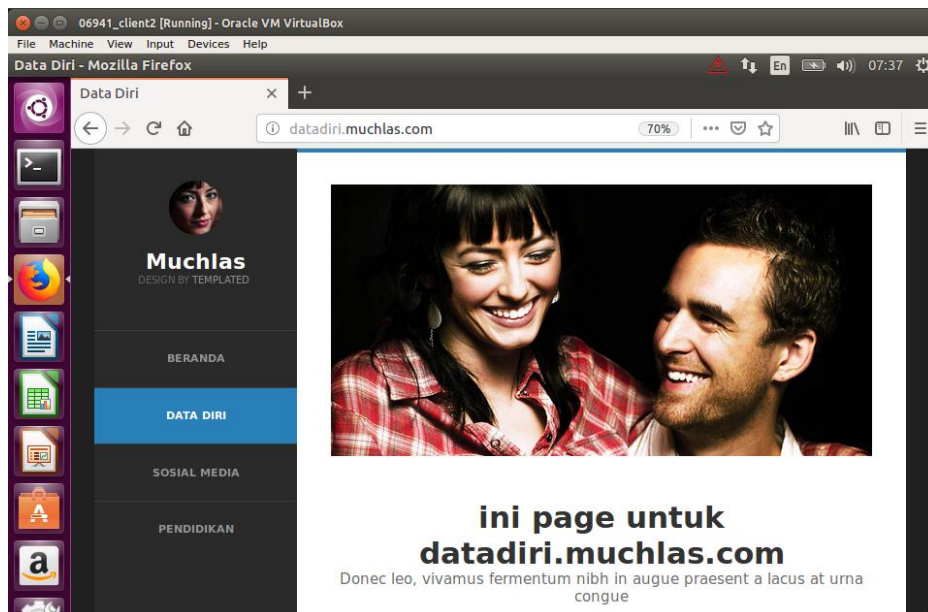
pendidikan.namapanggilan.com

b. Client 2

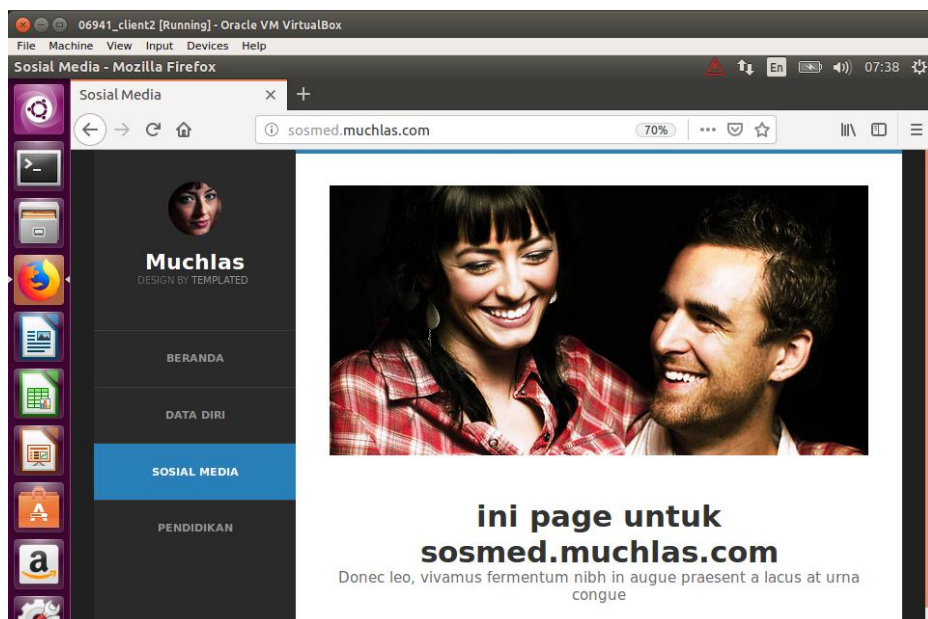


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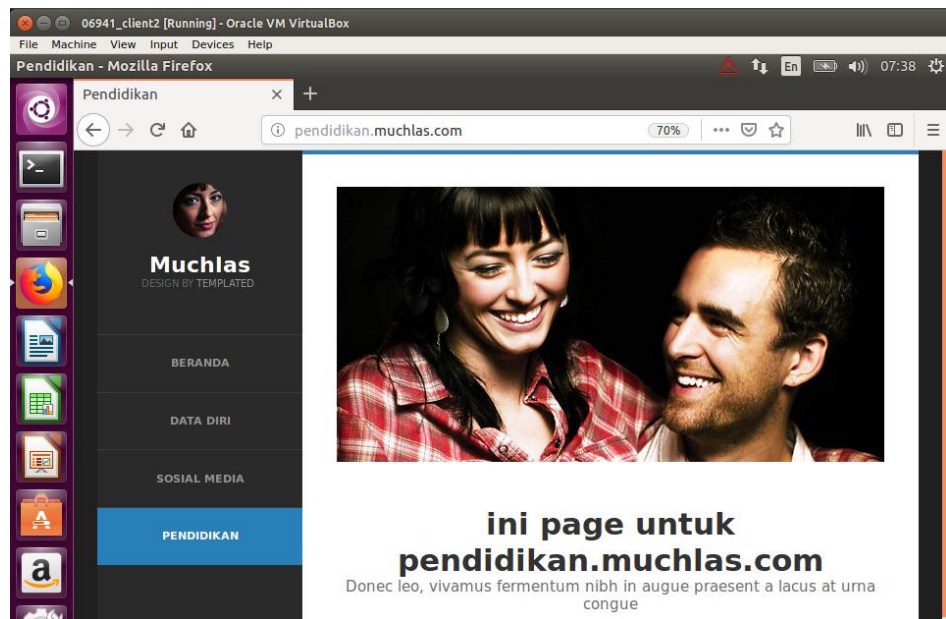


datadiri.namapanggilan.com



sosmed.namapanggilan.com

TUGAS PRAKTIKUM



pendidikan.namapanggilan.com