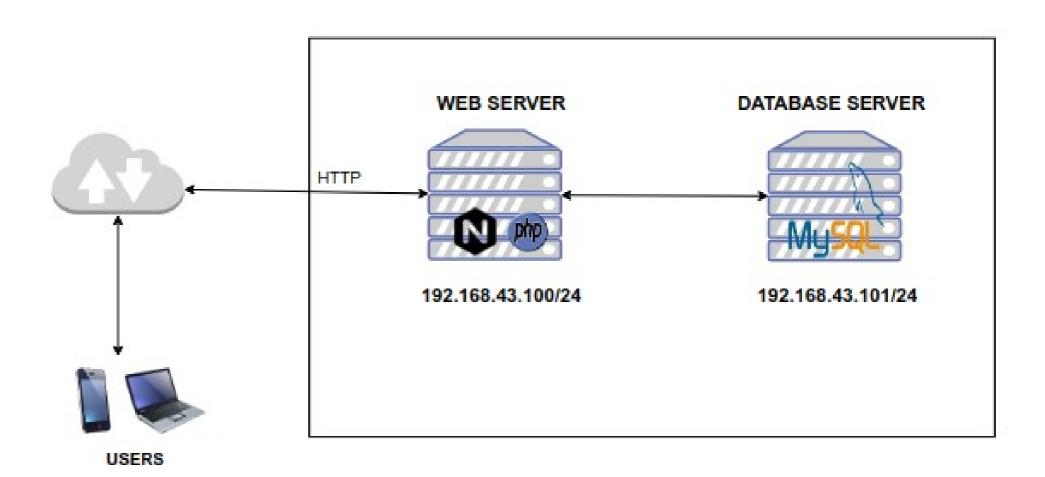


LATAR BELAKANG

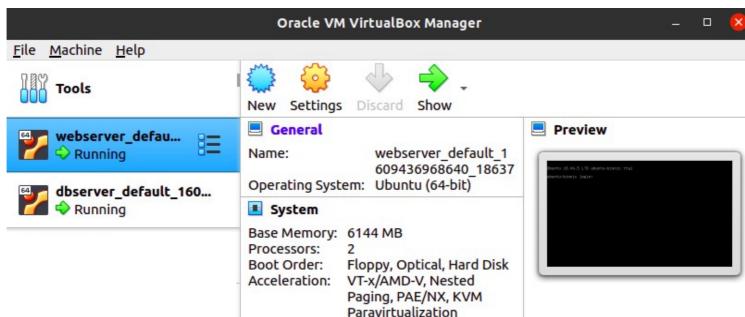
Sebuah perusahaan startup bernama PT. Samehada, merupakan perusahaan software host yang menjual aplikasi web dan infrastrukturnya. Perusahaan tersebut berencana membuat sebuah infrastruktur server on premises sederhana, yaitu layanan webserver dan database server untuk Web Aplikasi Sosial Media. Infrastruktur yang dibuat harus dibangun secara automasi dengan script bash, agar ketika nanti membuat infrastruktur yang sama hanya cukup menjalankan sebuah script dan web aplikasi disimpan di repository Github.

TOPOLOGI INFRASTRUKTUR



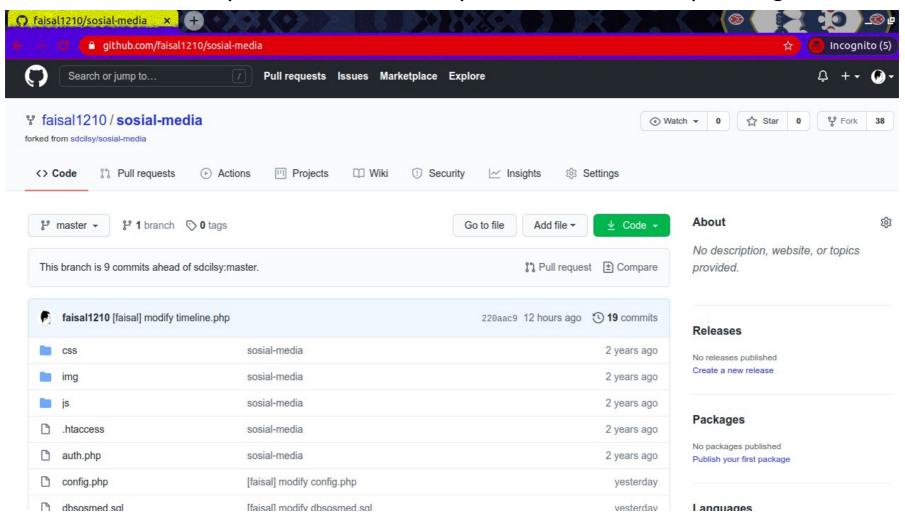
VAGRANT

```
$ mkdir webserver
:~$ cd webserver/
:~/webserver$ vagrant init ubuntu/bionic64
A `Vagrantfile` has been placed in this directory. You are now
ready to `vagrant up` your first virtual environment! Please read
the comments in the Vagrantfile as well as documentation on
`vagrantup.com` for more information on using Vagrant.
:~/webserver$ vagrant up
Bringing machine 'default' up with 'virtualbox' provider...
==> default: Importing base box 'ubuntu/bionic64'...
==> default: Matching MAC address for NAT networking...
==> default: Checking if box 'ubuntu/bionic64' version '20201211.1.0' is up to date...
==> default: Setting the name of the VM: webserver_default_1609436968640_18637
==> default: Clearing any previously set network interfaces...
==> default: Preparing network interfaces based on configuration...
    default: Adapter 1: nat
==> default: Forwarding ports...
    default: 22 (guest) => 2222 (host) (adapter 1)
==> default: Running 'pre-boot' VM customizations...
==> default: Booting VM...
==> default: Waiting for machine to boot. This may take a few minutes...
    default: SSH address: 127.0.0.1:2222
    default: SSH username: vagrant
    default: SSH auth method: private key
```



REPOSITORY (GITHUB)

Source code aplikasi web dan script automation disimpan di github



AUTOMATION SCRIPT (1)

deploy-webserver.sh

```
1 #!/bin/bash
2 ##### INSTALL NGINX, PHP MODULE & GIT #####
3 sudo apt update -y
4 sudo apt install -y nginx php-fpm php-mysgli git
5 ##### CONFIGURE NGINX ######
6 sudo tee /etc/nginx/sites-available/sosmed <<EOF
 7 server {
          listen 80:
          root /var/www/html;
          # Add index.php to the list if you are using PHP
          index index.php index.html index.htm index.nginx-debian.html;
          server name localhost;
          location / {
                  index index.php index.html index.htm;
                  # First attempt to serve request as file, then
                  # as directory, then fall back to displaying a 404.
                  try files \$uri \$uri/ =404;
          location ~ \.php$ {
            include snippets/fastcgi-php.conf;
            fastcgi pass unix:/run/php/php7.2-fpm.sock;
23 }
24 EOF
25 sudo unlink /etc/nginx/sites-enabled/default
26 sudo ln -s /etc/nginx/sites-available/sosmed /etc/nginx/sites-enabled/default
27 sudo nginx -t
28 sudo systemctl restart nginx
29 sudo systemctl restart php7.2-fpm
30 ##### CLONE WEB APPS DATA FROM GITHUB ######
31 cd /var/www/html/
32 sudo git clone https://github.com/faisal1210/sosial-media.git
33 sudo mv sosial-media/* . && sudo mv sosial-media/.git . && sudo rm -rf sosial-media/
34 sudo sed -i 's/$db host = "localhost";/$db host = "192.168.43.232";/g' config.php
```

AUTOMATION SCRIPT (2)

deploy-dbserver.sh

```
1 #!/bin/bash
2 ##### INSTALL MYSQL SERVER & GIT ######
3 sudo apt update -y
4 sudo apt install -y mysql-server git
5 ##### note: give comment bind-address at file /etc/mysql/mysql.conf.d/mysqld.cnf #####
6 ##### CREATE DATABASE & USER #####
7 sudo mysql << EOF
8 CREATE DATABASE IF NOT EXISTS dbsosmed;
9 CREATE USER IF NOT EXISTS 'faisal'@'%' IDENTIFIED BY '7654321';
LO GRANT ALL PRIVILEGES ON * . * TO 'faisal'@'%';
1 FLUSH PRIVILEGES;
12 EOF
13 ##### TMPORT DATABASE ######
14 git clone https://github.com/faisal1210/sosial-media.git
15 cd sosial-media/
16 sudo mysql dbsosmed < dbsosmed.sql</pre>
```

RESULT



Website Sosial Media

Bergabunglah bersama jutaan orang lainnya...



