

Deployment Online Course MICRO

1. Persiapan Akun & Server

Untuk mengikuti chapter deployment, usahakan kalian sudah mempunyai akun di penyedia server / vps. Berikut saya sertakan pilihannya.

1. Vultr.com (**Recomended**)
2. Digitalocean.com
3. Aws.amazon.com
4. Cloud.google.com

Pada chapter kali ini saya akan menggunakan vultr untuk deployment. Kalian bisa mendaftar di vultr dengan menggunakan [link ini](#) agar mendapatkan **Free \$100**.

* Note: Semua server yang kita gunakan akan menggunakan [Linux Ubuntu](#) v18.04

2. Install Aplikasi

A. NVM (Node Version Manager)

- Install NVM

```
curl -o- https://raw.githubusercontent.com/nvm-sh/nvm/v0.36.0/install.sh | bash
```

- Jalankan source ~/.bashrc

- Install nodejs & npm menggunakan nvm

```
nvm install v12.19.0
```

- Cek nodejs & npm version

```
node -v && npm -v
```

B. PM2 (Process Manager)

- Install pm2

```
npm install pm2 -g
```

- Cek instalasi dengan command
pm2

C. MySQL

- Install MySQL
sudo apt update
sudo apt install mysql-server
sudo mysql_secure_installation
- Buat user baru di MySql
 1. mysql
 2. CREATE USER 'nama_user'@'localhost' IDENTIFIED BY 'passwordmu';
 3. GRANT ALL PRIVILEGES ON *.* TO 'nama_user'@'localhost' WITH GRANT OPTION;
 4. Exit

D. Nginx

- Install nginx
sudo apt update
sudo apt install nginx

E. PHP

- Install php
sudo apt install software-properties-common
sudo add-apt-repository ppa:ondrej/php
sudo apt update
sudo apt install php7.4-fpm
sudo php-fpm7.4 -v
- Install dependencies yang dibutuhkan (*copy semua sampai -y*)
sudo apt install php7.4-common php7.4-mysql php7.4-xml php7.4-xmldrpc php7.4-curl
php7.4-gd php7.4-imagick php7.4-cli php7.4-dev php7.4-imap php7.4-mbstring php7.4-
opcache php7.4-soap php7.4-zip php7.4-intl php7.4-bcmath -y

F. Composer

- Download composer

wget <https://getcomposer.org/composer-stable.phar>

- Install composer

```
chmod 755 composer-stable.phar
```

```
mv composer-stable.phar /usr/local/bin/composer
```

- Cek instalasi dengan command

Composer

3. Kumpulan Script

A. Nginx Reverse Proxy

```
server {  
    listen 80;  
  
    listen [::]:80;  
  
    server_name your_domain or ip;  
  
    location / {  
        proxy_pass http://localhost:3000/;  
    }  
  
}
```

B. Run nodejs dengan pm2

```
pm2 start --name=nama-service npm -- start
```

C. Memberi akses webserver ke directory

```
sudo chown -R www-data:www-data /var/www/direktori-project/storage
```

```
sudo chown -R www-data:www-data /var/www/direktori-project/bootstrap/cache
```

D. Nginx configuration for laravel

```
server {  
    listen 80;  
    root /var/www/nama-directory/public;  
    index index.php index.html index.htm;  
    server_name domain_atau_ip;  
  
    location / {  
        try_files $uri $uri/ /index.php$is_args$args;  
    }  
  
    location ~ \.php$ {  
        include snippets/fastcgi-php.conf;  
        fastcgi_pass unix:/var/run/php/php7.4-fpm.sock;  
    }  
  
    location ~ /\.ht {  
        deny all;  
    }  
}
```