LAPORAN TUGAS AKHIR SISTEM TERDISTRIBUSI KELOMPOK 11

Anggota kelompok:

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- 1. Membuat LXC baru dan konfigurasi masing masing lxc:
 - sudo lxc-create -t download -n LXC_PHP7_1 -- -d ubuntu -r focal -a amd64
 - sudo lxc-create -t download -n LXC_PHP7_2 -- -d ubuntu -r focal -a amd64
 - sudo lxc-create -t download -n LXC_PHP7_3 -- -d ubuntu -r focal -a amd64
 - sudo lxc-create -t download -n LXC PHP7 4 -- -d ubuntu -r focal -a amd64
 - sudo lxc-create -t download -n LXC_PHP7_5 -- -d ubuntu -r focal -a amd64
 - sudo lxc-create -t download -n LXC_PHP7_6 -- -d ubuntu -r focal -a amd64
 - sudo lxc-create -t download -n LXC PHP5 1 -- -d debian -r buster -a amd64
 - sudo lxc-create -t download -n LXC_PHP5_2 -- -d debian -r buster -a amd64
 - sudo lxc-create -t download -n LXC DB SERVER -- -d debian -r buster -a amd64
- 2. Pada Setiap LXC lakukan langkah-langkah ini:
 - sudo lxc-attach -n LXC PHP7 1 -- apt update
 - sudo lxc-attach -n LXC PHP7 1 -- apt install -y php7.4 php7.4-fpm openssh-server
 - sudo lxc-attach -n LXC_PHP7_2 -- apt update
 - sudo lxc-attach -n LXC PHP7 2 -- apt install -y php7.4 php7.4-fpm openssh-server
 - sudo lxc-attach -n LXC_PHP7_3 -- apt update
 - sudo lxc-attach -n LXC_PHP7_3 -- apt install -y php7.4 php7.4-fpm openssh-server
 - sudo lxc-attach -n LXC PHP7 4 -- apt update
 - sudo lxc-attach -n LXC_PHP7_4 -- apt install -y php7.4 php7.4-fpm openssh-server
 - sudo lxc-attach -n LXC PHP7 5 -- apt update
 - sudo lxc-attach -n LXC_PHP7_5 -- apt install -y php7.4 php7.4-fpm openssh-server
 - sudo lxc-attach -n LXC_PHP7_6 -- apt update
 - sudo lxc-attach -n LXC PHP7 6 -- apt install -y php7.4 php7.4-fpm openssh-server
 - sudo lxc-attach -n LXC_PHP5_1 -- apt-get install -y software-properties-common apttransport-https lsb-release ca-certificates
 - sudo lxc-attach -n LXC_PHP5_1 -- wget -O /etc/apt/trusted.gpg.d/php.gpg https://packages.sury.org/php/apt.gpg
 - sudo lxc-attach -n LXC_PHP5_1 -- sh -c 'echo "deb https://packages.sury.org/php/ \$(lsb_release -sc) main" > /etc/apt/sources.list.d/php.list'

- sudo lxc-attach -n LXC_PHP5_1 -- apt update
- sudo lxc-attach -n LXC_PHP5_2 -- apt-get install -y software-properties-common apttransport-https lsb-release ca-certificates
- sudo lxc-attach -n LXC_PHP5_2 -- wget -O /etc/apt/trusted.gpg.d/php.gpg https://packages.sury.org/php/apt.gpg
- sudo lxc-attach -n LXC_PHP5_2 -- sh -c 'echo "deb https://packages.sury.org/php/ \$(lsb_release -sc) main" > /etc/apt/sources.list.d/php.list'
- sudo lxc-attach -n LXC_PHP5_2 -- apt update
- sudo lxc-attach -n LXC_PHP5_1 -- apt install php5.6 php5.6-fpm php5.6-cli php5.6-ison
- sudo lxc-attach -n LXC_PHP5_2 -- apt install php5.6 php5.6-fpm php5.6-cli php5.6-json
- sudo lxc-attach -n LXC_DB_SERVER -- apt update
- sudo lxc-attach -n LXC_DB_SERVER -- apt install mariadb-server
- sudo lxc-attach -n LXC_DB_SERVER -- systemctl start mariadb
- sudo lxc-attach -n LXC DB SERVER -- mysql secure installation
- sudo apt install openssh-server python
- apt install nano
- cd /etc/ssh
- nano sshd_config
- tambahkan
- PermitRootLogin yes
- sudo service sshd restart
- passwd
- set passwd bebas
- exit
- ssh root@ip lxc
- 3. Pergi ke " nano host" untuk mengklasifikasi pada setiap lxc seperti skema yang ada di bawah ini

```
| Compared to the content of the con
```

cd ~/tubes/inventories

nano hosts

4. Buat file

- nano install-ci.yml //for code igniter
- nano install-laravel.yml //for laravel
- nano install-wp.yml //for wordpress
- nano install-yii.yml //for yii2.0
- nano install-mariadb.yml //for phpMyAdmin

```
GNU nano 6.2 install-ci.yml

- hosts: ci

vars:
    git_url: 'https://github.com/aldonesia/sas-ci'
    destdir: '/var/www/html/ci'
    domain: '10.0.3.94'

roles:
    -app
```

```
GNU nano 6.2 install-laravel.yml

- hosts: Laravel
vars:
    username: 'admin'
    password: '1234'
    domain: '10.0.3.115'
roles:
    - php
    - lv
```

```
GNU nano 6.2 install-mariadb.yml

hosts: database

vars:
    username: 'admin'
    password: '1234'
    domain: '10.0.3.140'

roles:
    -db
    -pma
```

```
GNU nano 6.2 install-wp.yml

---
- hosts: wordpress
vars:
   username: 'admin'
   password: '1234'
   domain: '10.0.3.49'
roles:
   -wp
```

- 5. Lalu jalankan perintah di bawah ini :
 - cd /roles/ci/tasks
 - nano main.yml

```
GNU nano 6.2
                                                                   main.yml
  name: delete apt chance
 become: yes
become_user: root
 become method: su
command: rm -vf /var/lib/apt/lists/*
  name: install regruitment dpkg to install php5
 become: yes
become_user: root
 become method: su
apt: name=([ item ]) state=latest update_cache=true
with_items:
    - python
- ca-certificates
    - apt-transport-https
    - wget
    - python-apt
    - software-properties-common
    - git
  name: Add key
 apt_key:
    url: https://packages.sury.org/php/apt.gog
    state: present
  name: Add Php Repository
       state: present
      filename: php.list
update_cache: | row
  name: install nginx php5
 become: yei
become_user: yes
become_method: su
apt: name={{ item }} state=latest update_cache=true
with_items:
    - nginx
    - nginx-extras
    - php5.6
- php5.6-fpm
- php5.6-common
    - php5.6-cli
- php5.6-curl
- php5.6-mbstring
```

- cd ../templates
- nano app.conf

```
GNU nano 6.2
server {
  listen 80;
  server_name {{servername}};
  root {{ destdir }};
  index index.php;
  location / {
    try_files $uri $uri/ /index.php?$querry_string;
  }
  location ~ \.php$ {
    fastcgi_pass unix: /run/php/php5.6-fpm.sock;
    fastcgi_index index.php;
    fastcgi_param SCRIPT_FILENAME {{ destdir }}$fastcgi_script_name;
    include fastcgi_params;
  }
}
```

- cd ../handlers
- nano main.yml

```
GNU nano 6.2

- name: restart nginx
become: yes
become_users: root
become_method: su
action: service name=nginx state=restarted

- name: restart php
become: yes
become_user: root
become_method: su
action: service name=php5.6-fpm state=restarted
```

- cd ../../
- cd php/tasks
- nano main.yml

```
GNU nano 6.2
                                                main.yml
name: delete apt chance
become_users: root
become_method: su
command: rm -vf /var/lib/apt/lists/*
name: install php
become_user: root
become_method: su
apt: name={{ item }} state=latest update_chance=true
  - gtkhash
  - crack-md5
  - git
  - curl
  - nginx
  - nginx-extras
  - php7.4
  - php7.4-fpm
  - php7.4-curl
  - php7.4-xml
  - php7.4-gd
  - php7.4-opcache
  - php7.4-mbstring
  - php7.4-zip
  - php7.4-json
  - php7.4-cli
name: enable module pghp mbstring
command: phpenmod mbstring
  - restart php
```

- cd ../handlers
- nano main.yml

```
GNU nano 6.2 main.yml
---
- name: restart php
become: yes
become_user: root
become_method: su
action: service name=php7.4-fpm state=restarted
```

- cd ../../
- cd lv/tasks
- nano main.yml

```
GNU nano 6.2
                                                main.yml *
name: delete apt cache
become user: root
become_method: su
command: rm -vf /var/lib/apt/lists/*
name: Download and install Composer
shell: curl -sS https://getcomposer.org/installer | php
args:
  chdir: /usr/src/
creates: /usr/local/bin/composer
name: Add Composer to global path
 dest: /usr/local/bin/composer
 group: root
 owner: root
  src: /usr/src/composer.phar
name: Ansible delete file create-project
file:
 path: /var/www/html/landing
  state: absent
name: composer create-project
shell: /usr/local/bin/composer create-project laravel/laravel /var/www/html/landing --prefer-d
name: Copy .env.template
template:
  src: templates/env.template
  dest: /var/www/html/landing/.env
name: composer
shell: cd /var/www/html/landing/; /usr/local/bin/composer install --no-interaction
```

- cd ../templates
- nano env.template

```
GMU nano 6.2
APP_NAME=Laravel_
APP_ENV=local
                                                             env.template *
APP KEY=
APP DEBUG-true
APP_URL=http://vm.local
LOG_CHANNEL=stack
LOG_DEPRECATIONS_CHANNEL=null
LOG_LEVEL=debug
OB_CONNECTION=mysql
OB_HOST=10.0.3.140
DB_PORT=3306
DB_DATABASE=landing
DB_USERNAME-admin
08_PASSWORD=1234
BROADCAST_DRIVER=log
CACHE_DRIVER=file
FILESYSTEM_DRIVER=local
QUEUE_CONNECTION=sync
SESSION_DRIVER-file
SESSION_LIFETIME=120
MEMCACHED_HOST=127.0.0.1
REDIS_HOST=127.0.0.1
REDIS_PASSWORD=null
REDIS_PORT=6379
MAIL_MAILER=smtp
MAIL_HOST=mailhog
MAIL_PORT=1025
MAIL_USERNAME=nu11
MAIL_PASSWORD=null
MAIL_ENCRYPTION=null
MAIL FROM ADDRESS=null
MAIL FROM NAME="$(APP_NAME)"
AWS_ACCESS_KEY_ID=
AWS_SECRET_ACCESS_KEY=
AWS_DEFAULT_REGION=us-east-1
AWS_BUCKET=
AWS_USE_PATH_STYLE_ENDPOINT=false
PUSHER_APP_ID=
PUSHER_APP_KEY=
PUSHER_APP_SECRET=
```

nano lv.conf

```
Server {
    listen 88;
    listen [::]:80;

# Log files for Debugging
    access log /var/log/nginx/whostlaravel-access.lng;
    error_log /var/log/nginx/whostlaravel-access.lng;
    error_log /var/log/nginx/whostlaravel-error_log;

# Mebroot Directory for Laravel project
    root /var/www/html/landing/public;
    index index.php index.html index.htm;

# Your Domain Name
    server_name ({servername});

location / {
        try_files Suri Suri/ /index.php?squery_string;
    }

# PHD FEMS Configuration Nginx
location - \.php$ {
        try_files Suri =484;
        fastegi_split_path_info ^(.*\.php)(/.*)$;
        fastegi_pass 127.0.8.1:9881;
        fastegi_param SCRIPT_FILENAME $document_root$fastegi_script_name;
        include fastegi_params;
}
```

- cd db/tasks
- nano main.yml

```
name: delete apt cache
become: yes
become user: root
become method: su
command: rm -vf /var/lib/apt/lists/*
name: install mariadb
become: yes
become user: root
become method: su
apt: name={{ item }} state=latest update_cache=true
with items:
  - python
  - mariadb-server

    python-mysqldb

  - python-pymysql
name: Stop MySQL
service: name=mysqld state=stopped
name: set environment variables
shell: systemctl set-environment MYSQLD_OPTS="--skip-grant-tables"
name: Start MySQL
service: name=mysqld state=started
```

- cd ../templates
- nano my.cnf

```
e groups are read by MariaDB server
 this is read by the standalone daemon and embedded servers
server
Basic Settings
                       = mysql
user
pid-file
                       = /var/run/mysqld/mysqld.pid
socket
                       = /var/run/mysqld/mysqld.sock
                       = 3306
port
basedir
                      = /var/lib/mysql
datadir
tmpdir
                      = /tmp
lc-messages-dir
                       = /usr/share/mysql
skip-external-locking
```

- cd ../handlers
- nano main.yml

```
- name: restart mysql
become: yes
become_user: root
become_method: su
action: service name=mysql state=restarted
```