

CLOUD COMPUTING KUIS 2

CONTINUED FROM THE UTS WEBSITE



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(1941720080/21)

PROGRAM STUDI D-IV TEKNIK INFORMATIKA

JURUSAN TEKNOLOGI INFORMASI

POLITEKNIK NEGERI MALANG



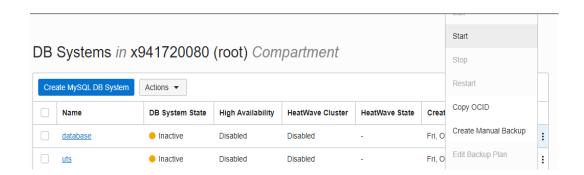
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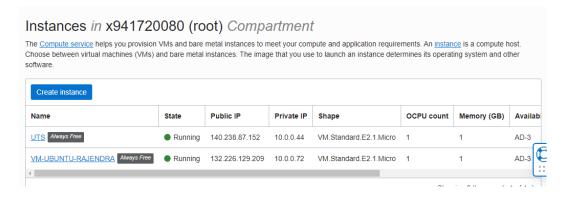
STEP 1

(COMPONENT SET-UP)

> START DATABASE



START INSTANCES



➤ Installing Ubuntu server → sudo apt install apache2 -y



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➤ Install Composer → <u>REFERENCES INSTALL</u>

```
omposer
All settings correct for using Composer
Downloading...

Composer (version 2.1.14) successfully installed to: /usr/local/bin/composer
Use it: php /usr/local/bin/composer

ubuntu@uts:~$ composer --version
Composer version 2.1.14 2021-11-30 10:51:43
ubuntu@uts:~$
```

➤ Install Mysql → sudo apt install mysql-client-core-8.0

```
ubuntu@uts:~$ mysql --version
mysql Ver 8.0.27-Oubuntu0.20.04.1 for Linux on x86_64 ((Ubuntu))
ubuntu@uts:~$ ■
```

➤ Cloning Framework Apps to /var/www/html from github → FRAMEWORK-APPS

```
ubuntu@uts:/var/www/html$ sudo git clone https://github.com/Rjndrkha/Kuis2-Cloud.git Cloning into 'Kuis2-Cloud'...
remote: Enumerating objects: 9260, done.
remote: Counting objects: 100% (9260/9260), done.
remote: Compressing objects: 100% (6683/6683), done.
remote: Total 9260 (delta 2312), reused 9260 (delta 2312), pack-reused 0
Receiving objects: 100% (9260/9260), 14.85 MiB | 6.42 MiB/s, done.
Resolving deltas: 100% (2312/2312), done.
Updating files: 100% (8204/8204), done.
ubuntu@uts:/var/www/html$ l
Kuis2-Cloud/ ajc/ index.html
```

➤ Install Node.js → <u>REFERENCES INSTALL</u>

```
ubuntu@uts:~$ nodejs -v
v10.19.0
ubuntu@uts:~$ ■
```

➤ Install PHP → sudo apt-get install php-curl

```
ubuntu@uts:~$ php --version
PHP 7.4.3 (cli) (built: Oct 25 2021 18:20:54) ( NTS )
Copyright (c) The PHP Group
Zend Engine v3.4.0, Copyright (c) Zend Technologies
with Zend OPcache v7.4.3, Copyright (c), by Zend Technologies
```

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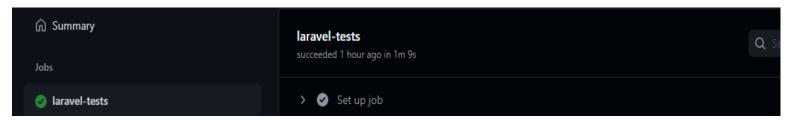
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STEP 2

(Laravel CI Test, Docker, CD Hosting)

1. Laravel CI Test Configuration

- Copy This Code to make Laravel CI Test → LINK
- Testing The Workflow

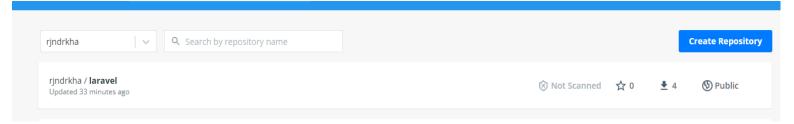


2. Docker Create, Push Configuration

- Copy This Code to make Docker Image Laravel → LINK
- Pull Docker Image → LINK
- Make Sure Docker image already in The Computer!



Push To Docker Hub

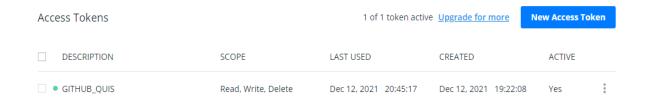




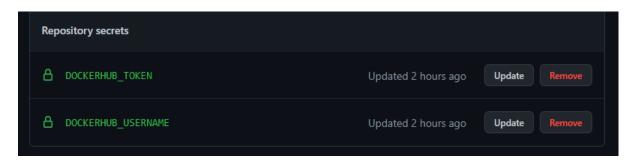
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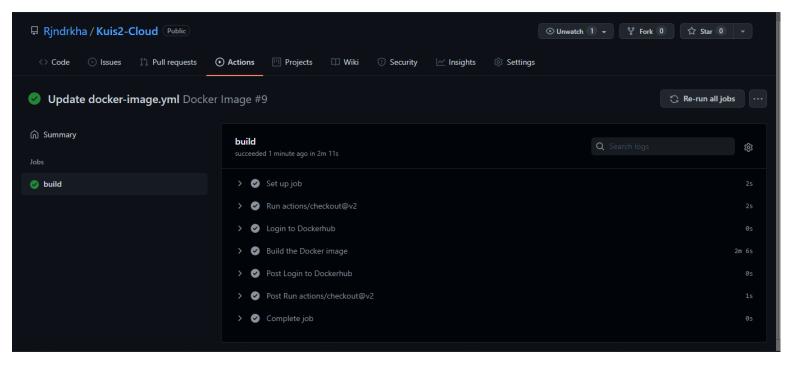
Make Acces Token For Github Workflow Access



Copy To Github -> Setting -> Secrets And Also add docker use



Testing the Workflow





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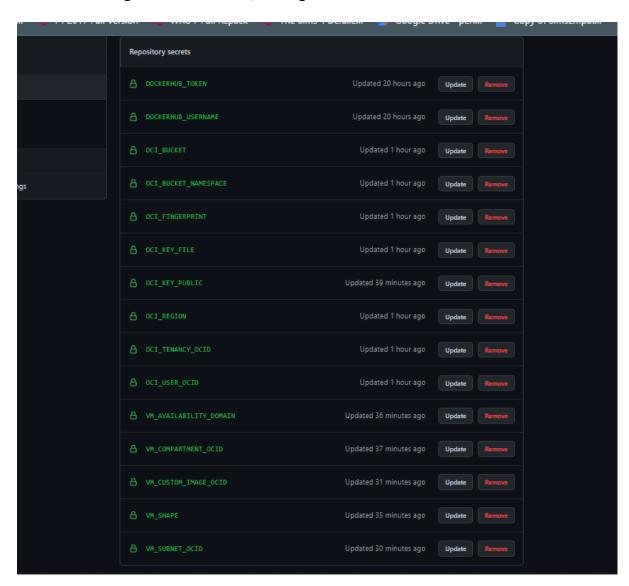
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3. CD (Continous Delivery) Configuration

- Full Code Pipeline -> LINK
- How To Get Oci Secreet and Others (SEE JOBSHEET 12 CLOUD
- Generate OCI_KEY_PUBLIC



Configuration in Secrets , Setting -> Secrets

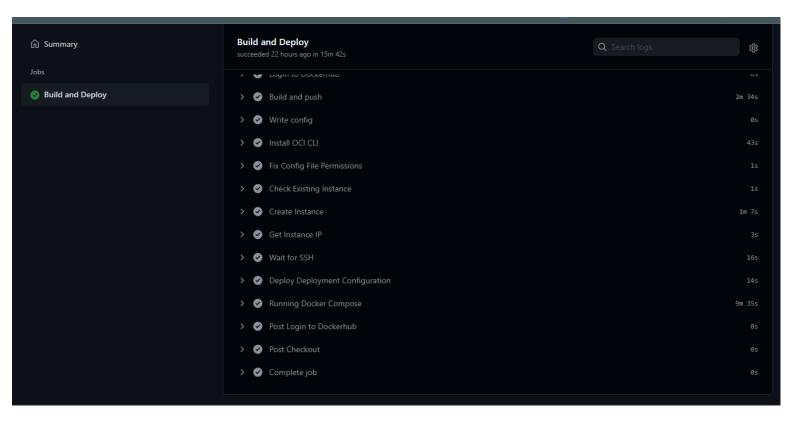




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Testing Workflow

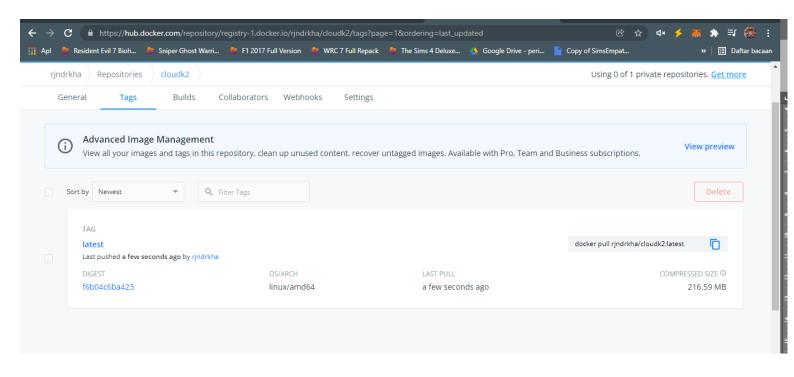




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View Image In Docker



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STEP 3

(LARAVEL CONFIGURATION & DATABASE)

→ rename the file to make it shorter → sudo my Kuis2-Cloud cloudk2

```
ubuntu@uts:/var/www/html$ sudo mv Kuis2-Cloud cloudk2
ubuntu@uts:/var/www/html$ l
ajc/ cloudk2/ index.html
```

→ Move to cloudk2 Directory → cd cloudk2

```
ubuntu@uts:/var/www/html$ l
ajc/ cloudk2/ index.html
ubuntu@uts:/var/www/html$ cd cloudk2
ubuntu@uts:/var/www/html/cloudk2$ l
app/ composer.json database/ package.json resources/ storage/ vendor/
artisan composer.lock docker-compose.yml phpunit.xml routes/ tailwind.config.js webpack.mix.js
bootstrap/ config/ package-lock.json public/ server.php
ubuntu@uts:/var/www/html/cloudk2$
```

→ Create Database On Mysql

→ Configure .env to Database Oracle

```
ubuntu@uts:/var/www/html/cloudk2$ sudo cp .env.example .env
ubuntu@uts:/var/www/html/cloudk2$ l
app/ composer.json database/
                                           package.json resources/ storage/
                                                                                       vendor/
artisan composer.lock docker-compose.yml phpunit.xml routes/ tailwind.config.js webpack.mix.js
bootstrap/ config/ package-lock.json public/ server.php tests/
ubuntu@uts:/var/www/html/cloudk2$ sudo nano .env
GNU nano 4.8

APP_NAME=Laravel
APP_ENV=local
APP_KEY=
APP_DEBUG=true
APP_URL=http://localhost
LOG_CHANNEL=stack
LOG_LEVEL=debug
DB_CONNECTION=mysql
DB_HOST=10.0.0.217
DR PORT=3306
DB DATABASE=shamo
DB_USERNAME=rajendra
DB_PASSWORE
```



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→ Composer Install → sudo composer install

```
ubuntu@uts:/var/www/html/cloudk2$ sudo composer install
 Continue as root/super user [ves]? ves
Installing dependencies from lock file (including require-dev)
Verifying lock file contents can be installed on current platform
Nothing to install, update or remove
      ge swiftmailer/swiftmailer is
ating optimized autoload file
> Illuminate\Foundation\ComposerScripts::postAutoloadDump
  @php artisan package:discover --ansi
Discovered Package: facade/ignition
Discovered Package: fideloper/proxy
Discovered Package: fruitcake/laravel-cors
Discovered Package: jenssegers/agent
Discovered Package: laravel/fortify
Discovered Package: laravel/jetstrea
Discovered Package: laravel/sail
Discovered Package: laravel/sanctu
Discovered Package: laravel/tinker
Discovered Package: livewire/livewire
Discovered Package: nesbot/carbon
Discovered Package: nunomaduro/collision
Discovered Package: yajra/laravel-datatables-oracle
Package manifest generated successfully.
80 packages you are using are looking for funding. Use the `composer fund` command to find out more!
ubuntu@uts:/var/www/html/cloudk2$
```

→ Migrating Database → sudo php artisan migrate

```
ubuntu@uts:/var/www/html/cloudk2$ sudo php artisan migrate
Migration table created successfully.
Migrating: 2014_10_12_000000_create_users_table
Migrated: 2014_10_12_000000_create_users_table (148.21ms)
Migrating: 2014_10_12_100000_create_password_resets_table
Migrated: 2014_10_12_100000_create_password_resets_table (89.89ms)
Migrating: 2014_10_12_200000_add_two_factor_columns_to_users_table
Migrated: 2014_10_12_200000_add_two_factor_columns_to_users_table (200.68ms)
Migrating: 2019_08_19_000000_create_failed_jobs_table
Migrated: 2019_08_19_000000_create_failed_jobs_table (53.61ms)
Migrating: 2019_12_14_000001_create_personal_access_tokens_table
Migrated: 2019_12_14_000001_create_personal_access_tokens_table (63.76ms)
Migrating: 2021_01_06_035346_create_sessions_table
Migrated: 2021_01_06_035346_create_sessions_table (85.67ms)
Migrating: 2021_01_17_161413_create_products_table
Migrated: 2021_01_17_161413_create_products_table (10.56ms)
Migrating: 2021_01_17_161417_create_product_categories_table
Migrated: 2021_01_17_161417_create_product_categories_table (30.17ms)
Migrating: 2021_01_17_161427_create_product_galleries_table
Migrated: 2021_01_17_161427_create_product_galleries_table (9.87ms)
Migrating: 2021_01_17_161441_create_transactions_table
Migrated: 2021_01_17_161441_create_transactions_table (10.25ms)
Migrating: 2021_01_18_014436_add_roles_and_username_to_users_table
Migrated: 2021_01_18_014436_add_roles_and_username_to_users_table (21.04ms)
Migrating: 2021_03_10_095130_create_transaction_items_table
Migrated: 2021_03_10_095130_create_transaction_items_table (9.45ms)
ubuntu@uts:/var/www/html/cloudk2$
```

→ Check Migration in Database

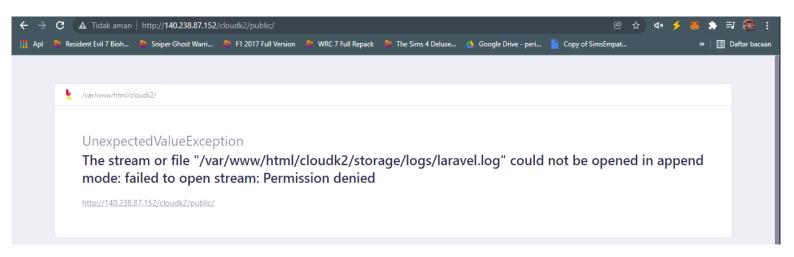


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1941720080-2H/21

```
mysql> use shamo;
Reading table information for completion of table and column names
You can turn off this feature to get a quicker startup with -A
Database changed
mysql> show tables;
| Tables_in_shamo
| failed_jobs
| migrations
| password_resets
 personal_access_tokens
| product_categories
| product_galleries
products
sessions
| transaction_items
| transactions
users
11 rows in set (0.01 sec)
mysql>
```

→ If Get eror like image below , do this syntax below to grant permission



```
ubuntu@uts:/var/www/html/cloudk2$ cd /var/www/html/cloudk2
ubuntu@uts:/var/www/html$ sudo chgrp -R www-data cloudk2/
ubuntu@uts:/var/www/html$ sudo chmod -R 775 cloudk2/storage
ubuntu@uts:/var/www/html$
```



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1941720080-2H/21

→ Add Laravel.conf

```
ubuntu@uts:/var/www/html$ cd /etc/apache2/sites-available/
ubuntu@uts:/etc/apache2/sites-available$ l
000-default.conf default-ssl.conf
ubuntu@uts:/etc/apache2/sites-available$ nano laravel.conf
ubuntu@uts:/etc/apache2/sites-available$ sudo nano laravel.conf
```

```
GNU nano 4.8

VirtualHost *:80>
ServerAdmin rajendra@localhost
DocumentRoot /var/www/html/cloudk2/public

<Directory />
Options FollowSymLinks
AllowOverride None

</Directory>
<Directory /var/www/html/cloudk2>
AllowOverride All

</Directory>
ErrorLog ${APACHE_LOG_DIR}/error.log
CustomLog ${APACHE_LOG_DIR}/access.log combined

</VirtualHost>
```

→ Activated Laravel.Conf

```
ubuntu@uts:~$ cd /etc/apache2/sites-available/
ubuntu@uts:/etc/apache2/sites-available$ l
000-default.conf default-ssl.conf laravel.conf
ubuntu@uts:/etc/apache2/sites-available$ sudo a2enmod rewrite
Enabling module rewrite.
To activate the new configuration, you need to run:
  systemctl restart apache2
ubuntu@uts:/etc/apache2/sites-available$ sudo a2dissite 000-default.conf
Site 000-default disabled.
To activate the new configuration, you need to run:
  systemctl reload apache2
ubuntu@uts:/etc/apache2/sites-available$ sudo a2ensite laravel.conf
Enabling site laravel.
To activate the new configuration, you need to run:
 systemctl reload apache2
ubuntu@uts:/etc/apache2/sites-available$
```

Restart Apache2 → sudo systemctl restart apache2



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1941720080-2H/21

Preview Website

LINK WEBSITE



→ Add User Data For Login

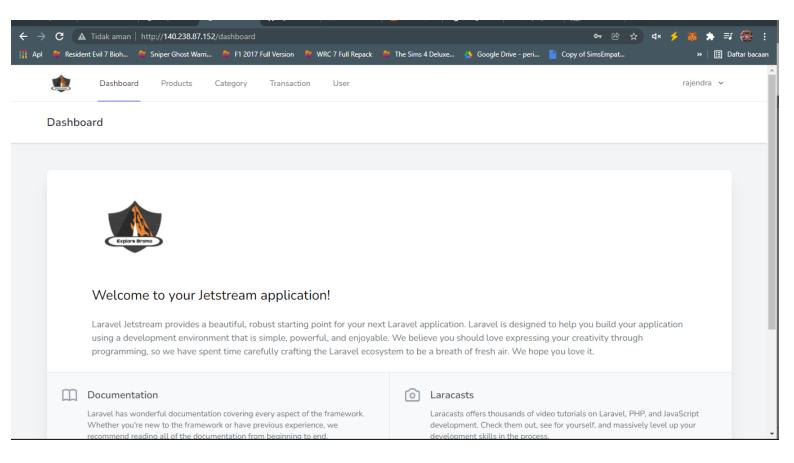
nysql> use shamo; Reading table information for completion of table and colu You can turn off this feature to get a quicker startup wit Database changed Nysql> INSERT INTO `users` (`id`, `name`, `email`, `userna_codes`, `remember_token`, `current_team_id`, `profile_phoom', 'rjndrkha', 'ADMIN', NULL, Query OK, 1 row affected (0.00 sec)	h -A me`, `roles`, `email_verified_at`, to_path`, `created_at`, `updated_a	
LOGIN PAGE →	Email Password Remember me	



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DASHBOARD PAGE



FULL LINK CODE

<u>GITHUB</u>