

# Activity Log Minggu 1

## Membuat Image dan Container

### Install Repository Docker di Lokal

Sebelum kita install Docker, kita harus melakukan setting Docker repository, selanjutnya kita bisa install dan update Docker dari repository.

Syntaxnya adalah sebagai berikut.

```
sudo apt-get update
```

```
student@student-PC:~$ sudo apt-get update
Get:2 http://security.ubuntu.com/ubuntu xenial-security InRelease [102 kB]
Get:4 http://id.archive.ubuntu.com/ubuntu xenial-backports InRelease [102 kB]
Get:5 http://security.ubuntu.com/ubuntu xenial-security/main amd64 Packages [430
kB]
0% [4 InRelease 45,1 kB/102 kB 44%] [5 Packages 321 kB/430 kB 75%]
```

Tunggu proses download sampai selesai.

```
1 Metadata [157 B]
Get:64 http://id.archive.ubuntu.com/ubuntu xenial-updates/universe amd64 Package
s [577 kB]
Get:65 http://id.archive.ubuntu.com/ubuntu xenial-updates/universe i386 Packages
[536 kB]
Get:66 http://id.archive.ubuntu.com/ubuntu xenial-updates/universe Translation-e
n [233 kB]
Get:67 http://id.archive.ubuntu.com/ubuntu xenial-updates/universe amd64 DEP-11
Metadata [190 kB]
Get:68 http://id.archive.ubuntu.com/ubuntu xenial-updates/universe DEP-11 64x64
Icons [265 kB]
Get:69 http://id.archive.ubuntu.com/ubuntu xenial-updates/multiverse amd64 Packa
ges [16,2 kB]
Get:70 http://id.archive.ubuntu.com/ubuntu xenial-updates/multiverse i386 Packag
es [15,3 kB]
Get:71 http://id.archive.ubuntu.com/ubuntu xenial-updates/multiverse Translation
-en [8.052 B]
Get:72 http://id.archive.ubuntu.com/ubuntu xenial-updates/multiverse amd64 DEP-1
1 Metadata [5.892 B]
Get:73 http://id.archive.ubuntu.com/ubuntu xenial-updates/multiverse DEP-11 64x6
4 Icons [14,3 kB]
Fetched 41,3 MB in 32min 23s (21,2 kB/s)
Reading package lists... Done
student@student-PC:~$
```

Install package agar apt bisa melalui https, dengan syntax :

```
sudo apt-get install \
  apt-transport-https \
  ca-certificates \
  curl \
  software-properties-common
```

```

student@student-PC:~$ sudo apt-get install \
> apt-transport-https \
> ca-certificates \
> curl \
> software-properties-common
[sudo] password for student:
Reading package lists... Done
Building dependency tree
Reading state information... Done
apt-transport-https is already the newest version (1.2.24).
software-properties-common is already the newest version (0.96.20.7).
The following additional packages will be installed:
  libcurl3-gnutls
The following NEW packages will be installed:
  curl
The following packages will be upgraded:
  ca-certificates libcurl3-gnutls
2 upgraded, 1 newly installed, 0 to remove and 294 not upgraded.
Need to get 490 kB of archives.
After this operation, 280 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 ca-certificates all 20170717-16.04.1 [168 kB]
2% [1 ca-certificates 14,0 kB/168 kB 8%]

```

Tunggu sampai selesai.

```

17 added, 42 removed, done.
Running hooks in /etc/ca-certificates/update.d...
done.
Processing triggers for libc-bin (2.23-0ubuntu9)...
student@student-PC:~$

```

Tambahkan Docker's official GPG key dengan syntax seperti di bawah.

```
curl -fsSL https://download.docker.com/linux/ubuntu/gpg | sudo apt-key add -
```

```

student@student-PC:~$ curl -fsSL https://download.docker.com/linux/ubuntu/gpg |
sudo apt-key add -
OK
student@student-PC:~$

```

Cek kita sudah punya key dengan kode 9DC8 5822 9FC7 DD38 854A E2D8 8D81 803C 0EBF CD88, dengan mencarinya dengan syntax.

```
sudo apt-key fingerprint 0EBFCD88
```

```

student@student-PC:~$ sudo apt-key fingerprint 0EBFCD88
pub 4096R/0EBFCD88 2017-02-22
    Key fingerprint = 9DC8 5822 9FC7 DD38 854A E2D8 8D81 803C 0EBF CD88
uid                               Docker Release (CE deb) <docker@docker.com>
sub 4096R/F273FCD8 2017-02-22
student@student-PC:~$

```

Set up stable repository

Gunakan perintah berikut untuk mengatur stable repository. Kita selalu membutuhkan stable repository , bahkan jika Anda ingin menginstal build dari edge atau repository tes juga.

```
sudo add-apt-repository \
    "deb [arch=amd64] https://download.docker.com/linux/ubuntu \
    $(lsb_release -cs) \
    stable"
```

```
student@student-PC:~$ sudo add-apt-repository "deb [arch=amd64] https://downl
oad.docker.com/linux/ubuntu \
    $(lsb_release -cs) \
    stable"
student@student-PC:~$
```

## Install Docker CE

Disini akan dimulai untuk proses install dockernya. Pertama jalankan perintah apt-get update terlebih dahulu. apt-get update mendownload daftar paket dari repositori dan "update" mereka untuk mendapatkan informasi tentang versi terbaru dari paket dan dependensinya. Dengan syntax seperti di bawah ini.

```
sudo apt-get update
```

```
student@student-PC:/etc/apt$ sudo apt-get update
Hit:1 https://download.docker.com/linux/ubuntu xenial InRelease
Get:2 http://security.ubuntu.com/ubuntu xenial-security InRelease [102 kB]
Hit:3 http://id.archive.ubuntu.com/ubuntu xenial InRelease
Get:4 http://id.archive.ubuntu.com/ubuntu xenial-updates InRelease [102 kB]
Get:5 http://id.archive.ubuntu.com/ubuntu xenial-backports InRelease [102 kB]
Fetched 306 kB in 14s (21,7 kB/s)
Reading package lists... Done
student@student-PC:/etc/apt$
```

Setelah repo terupdate, kemudian install docker dengan syntax seperti di bawah ini.

```
sudo apt-get install docker-ce
```

```
student@student-PC:/etc/apt$ sudo apt-get install docker-ce
Reading package lists... Done
Building dependency tree
Reading state information... Done
The following additional packages will be installed:
  aufs-tools cgroupfs-mount git git-man liberror-perl
Suggested packages:
  git-daemon-run | git-daemon-sysvinit git-doc git-el git-email git-gui gitk
  gitweb git-arch git-cvs git-mediawiki git-svn
The following NEW packages will be installed:
  aufs-tools cgroupfs-mount docker-ce git git-man liberror-perl
0 upgraded, 6 newly installed, 0 to remove and 294 not upgraded.
Need to get 34,1 MB of archives.
After this operation, 175 MB of additional disk space will be used.
Do you want to continue? [Y/n] y
Get:1 https://download.docker.com/linux/ubuntu xenial/stable amd64 docker-ce amd
64 17.12.0-ce-0~ubuntu [30,2 MB]
Get:2 http://id.archive.ubuntu.com/ubuntu xenial/universe amd64 aufs-tools amd64
1:3.2+20130722-1.1ubuntu1 [92,9 kB]
11% [2 aufs-tools 1.146 B/92,9 kB 1%] [1 docker-ce 4.660 kB/30,2 MB 15%]
```

Tunggu sampai selesai

```
Setting up git (1:2.7.4-0ubuntu1.3) ...
Processing triggers for libc-bin (2.23-0ubuntu9) ...
Processing triggers for systemd (229-4ubuntu19) ...
Processing triggers for ureadahead (0.100.0-19) ...
student@student-PC:/etc/apt$
```

Cek apakah docker sudah terpasang dengan baik dengan menjalankan perintah run hello-world.

```
sudo docker run hello-world
```

```
student@student-PC:~$ sudo docker run hello-world
Unable to find image 'hello-world:latest' locally
latest: Pulling from library/hello-world
ca4f61b1923c: Pull complete
Digest: sha256:66ef312bbac49c39a89aa9bcc3cb4f3c9e7de3788c944158df3ee0176d32b751
Status: Downloaded newer image for hello-world:latest

Hello from Docker!
This message shows that your installation appears to be working correctly.

To generate this message, Docker took the following steps:
1. The Docker client contacted the Docker daemon.
2. The Docker daemon pulled the "hello-world" image from the Docker Hub.
   (amd64)
3. The Docker daemon created a new container from that image which runs the
   executable that produces the output you are currently reading.
4. The Docker daemon streamed that output to the Docker client, which sent it
   to your terminal.

To try something more ambitious, you can run an Ubuntu container with:
$ docker run -it ubuntu bash

Share images, automate workflows, and more with a free Docker ID:
https://cloud.docker.com/

For more examples and ideas, visit:
https://docs.docker.com/engine/userguide/

student@student-PC:~$
```

Jika muncul gambar seperti di atas, maka proses install docker sudah berhasil.



## **Pembuatan Aplikasi**

Aplikasi yang kita buat adalah POS berbasis php dengan css sebagai style-nya, dan menggunakan database mysql.

# Upload Aplikasi Ke GIT

Inisialisasi repo lokal dengan git init

```
MINGW64:/c/POS  
IT6YK@DESKTOP-80GCMH6 MINGW64 /c/POS  
$ git init  
Initialized empty Git repository in C:/POS/.git/
```

Git add . kita gunakan untuk memasukkan semua file di folder POS ke repo lokal kita

```
IT6YK@DESKTOP-80GCMH6 MINGW64 /c/POS (master)  
$ git add .
```

Kita lakukan commit untuk persiapan upload ke repo github dengan message Add Files

```
IT6YK@DESKTOP-80GCMH6 MINGW64 /c/POS (master)  
$ git commit -m "Add Files"  
[master (root-commit) b6f1597] Add Files  
2797 files changed, 133037 insertions(+)  
create mode 100644 class/._paging.php  
create mode 100644 class/paging.php  
create mode 100644 content.php  
create mode 100644 css/._font-awesome.css  
create mode 100644 css/._font-awesome.min.css
```

Kita setting reo online pada git dengan git remote add origin diikuti link repo online kita

```
IT6YK@DESKTOP-80GCMH6 MINGW64 /c/POS (master)  
$ git remote add origin https://github.com/rriikkoo/pos.git
```

Push ke repo online kita di git

```
IT6YK@DESKTOP-80GCMH6 MINGW64 /c/POS (master)  
$ git push -f origin master  
fatal: HttpRequestException encountered.  
An error occurred while sending the request.  
Username for 'https://github.com': rriikkoo  
Counting objects: 1343, done.  
Delta compression using up to 4 threads.  
Compressing objects: 100% (1338/1338), done.  
Writing objects: 6% (81/1343)
```

Kita cek di repo online kita

The screenshot shows the GitHub interface for the repository 'rriikkoo / pos'. At the top, there are buttons for 'Watch' (0), 'Star' (0), and 'Fork' (0). Below these are tabs for 'Code', 'Issues' (0), 'Pull requests' (0), 'Projects' (0), 'Wiki', 'Insights', and 'Settings'. A message states 'No description, website, or topics provided.' with an 'Edit' button. Below this, a progress bar shows '2 commits', '1 branch', '0 releases', and '1 contributor'. A row of buttons includes 'Branch: master', 'New pull request', 'Create new file', 'Upload files', 'Find file', and 'Clone or download'. The file list shows a directory structure with folders like 'class', 'css', 'fonts', 'genade', 'js', 'lib', 'mod', 'popup', and a file 'RFADMF.md'. Each item has an 'Add' button and a timestamp of '12 minutes ago' or '12 seconds ago'.

rriikkoo / pos

Watch 0 Star 0 Fork 0

Code Issues 0 Pull requests 0 Projects 0 Wiki Insights Settings

No description, website, or topics provided. Edit

Add topics

2 commits 1 branch 0 releases 1 contributor

Branch: master New pull request Create new file Upload files Find file Clone or download

rriikkoo Create README.md		Latest commit 1268087 12 seconds ago
class	Add	12 minutes ago
css	Add	12 minutes ago
fonts	Add	12 minutes ago
genade	Add	12 minutes ago
js	Add	12 minutes ago
lib	Add	12 minutes ago
mod	Add	12 minutes ago
popup	Add	12 minutes ago
RFADMF.md	Create RFADMF.md	12 seconds ago

Link repo aplikasi di github : <https://github.com/rriikkoo/pos>