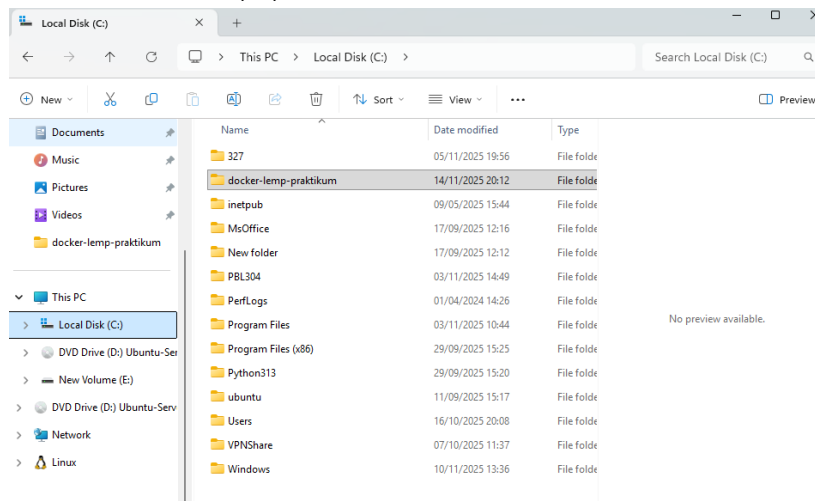


Praktikum: Instalasi LEMP Stack dengan Docker Compose (Windows)

Persiapan Awal (Pre-Requisites)

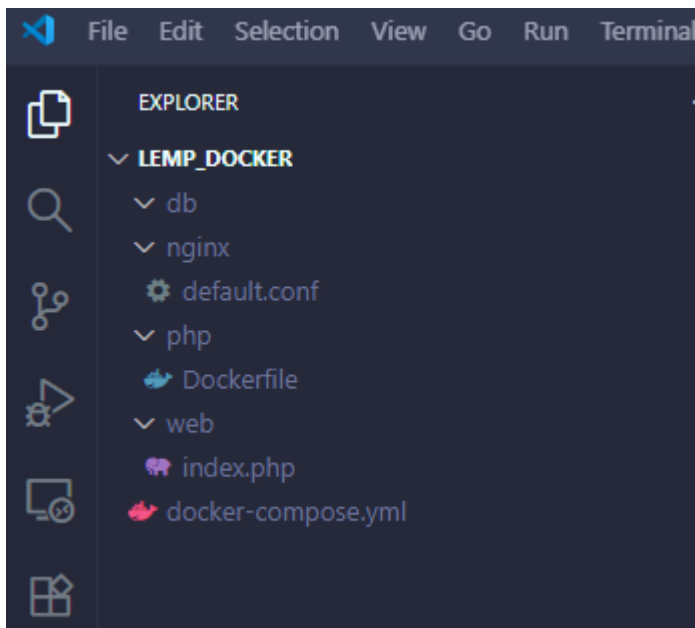
1. Docker Desktop Terinstal: Pastikan Docker Desktop sudah terinstal, WSL 2 aktif, dan Docker Engine berjalan (ikon Docker berwarna hijau di system tray).
2. Direktori Proyek: Buat sebuah folder proyek utama di drive lokal Anda, misalnya: C:\docker-lemp-praktikum.



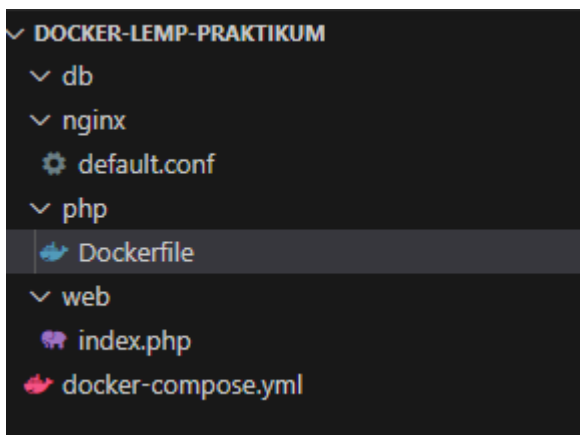
3. File Konfigurasi: Di dalam folder proyek tersebut, buat tiga sub-folder dan tiga file kunci:

Folder / File	Kegunaan
web (Folder)	Menyimpan kode PHP/HTML/aplikasi Anda.
db (Folder)	Menyimpan data database secara persisten.
nginx (Folder)	Menyimpan file konfigurasi Nginx kustom.
Php (Folder)	Menyimpan konfigurasi yang dibutuhkan
docker-compose.yml	File utama untuk mendefinisikan semua layanan.
nginx/default.conf	File konfigurasi Nginx untuk <i>virtual host</i> .
web/index.php	File uji coba PHP.

Contoh:



Hasil :



A. Mendefinisikan Layanan dengan docker-compose.yml

Tujuan: Mendefinisikan tiga layanan utama (Nginx, PHP, MySQL) dan network dalam satu file konfigurasi.

Buat File docker-compose.yml: Gunakan editor teks (misalnya VS Code atau Notepad++) untuk membuat dan mengisi file ini di direktori proyek utama Anda.

```

1 version: '3.8'
2 services:
3   # LAYANAN 1: NGINX Web Server
4   nginx:
5     image: nginx:stable-alpine # Image Nginx yang ringan
6     container_name: lemp_nginx
7     ports:
8       - "8080:80" # Map port 8080 di Host (Windows) ke port 80 di Container
9     volumes:
10      - ./web:/var/www/html # Map folder web lokal ke folder root Nginx
11      - ./nginx/default.conf:/etc/nginx/conf.d/default.conf # Konfigurasi Nginx kustom
12     depends_on:
13       - php # Pastikan PHP berjalan sebelum Nginx
14
15   # LAYANAN 2: PHP-FPM (PHP FastCGI Process Manager)
16   php:
17     build:
18       context: ./php # Gunakan Dockerfile dari folder php
19       dockerfile: Dockerfile
20     container_name: lemp_php
21     volumes:
22       - ./web:/var/www/html # Menggunakan folder kode yang sama dengan Nginx
23
24   # LAYANAN 3: MySQL Database
25   db:
26     image: mysql:5.7 # Image MySQL versi 5.7
27     container_name: lemp_mysql
28     environment:
29       MYSQL_ROOT_PASSWORD: passwordku # Ganti dengan password yang Lebih kuat
30       MYSQL_DATABASE: praktikumbd
31       MYSQL_USER: userku
32       MYSQL_PASSWORD: passwordku
33     volumes:
34       - db:/var/lib/mysql # Map folder db lokal untuk persistensi data
35
36   # Volume untuk menyimpan data MySQL (Persistence)
37   volumes:
38     db:

```

Hasil :

```

1 version: '3.8'
2
3 services:
4   # LAYANAN 1: NGINX Web Server
5   nginx:
6     image: nginx:stable-alpine # Image Nginx yang ringan
7     container_name: lemp_nginx
8     ports:
9       - "8080:80" # Map Port 8080 di Host (Windows) ke Port 80 di Container
10    volumes:
11      - ./web:/var/www/html # Map folder Web lokal ke folder Web di Nginx
12      - ./nginx/default.conf:/etc/nginx/conf.d/default.conf # Konfigurasi Nginx khusus
13    depends_on:
14      - php # Nginx menunggu PHP berjalan sebelum Nginx
15    networks:
16      - lemp_net
17
18   # LAYANAN 2: PHP-FPM (PHP FastCGI Process Manager)
19   php:
20     build:
21       context: ./php # Gunakan Dockerfile dari folder php
22       dockerfile: Dockerfile
23     container_name: lemp_php
24     volumes:
25       - ./web:/var/www/html # Menggunakan folder kode yang sama dengan Nginx
26     networks:
27       - lemp_net
28
29   # LAYANAN 3: MySQL Database
30   db:
31     image: mysql:5.7 # Image MySQL versi 5.7
32     container_name: lemp_mysql
33     environment:
34       MYSQL_ROOT_PASSWORD: passwordku # Ganti dengan password yang lebih kuat
35       MYSQL_DATABASE: praktikumbd
36       MYSQL_USER: userku
37       MYSQL_PASSWORD: passwordku
38     volumes:
39       - db:/var/lib/mysql # Map folder db lokal untuk persistent data
40     networks:
41       - lemp_net
42
43   # Volume untuk menyimpan data MySQL (Persistence)
44   volumes:
45     db:
46
47   networks:
48     lemp_net:

```

B. Konfigurasi Nginx dan File Uji Coba

Tujuan: Menyiapkan konfigurasi Nginx agar berkomunikasi dengan container PHP.

Buat File nginx/default.conf: Buat file ini di dalam folder nginx dan pastikan Nginx meneruskan permintaan .php ke container php (sesuai nama service di docker-compose.yml).

```
nginx > default.conf
1  server {
2      listen 80;
3      index index.php index.html;
4      root /var/www/html;
5
6      location / {
7          try_files $uri $uri/ =404;
8      }
9
10     location ~ \.php$ {
11         fastcgi_split_path_info ^(.+\.php)(/.+)$;
12         fastcgi_pass php:9000; # Meneruskan ke Service PHP (Port 9000 default PHP-FPM)
13         fastcgi_index index.php;
14         include fastcgi_params;
15         fastcgi_param SCRIPT_FILENAME $document_root$fastcgi_script_name;
16         fastcgi_param PATH_INFO $fastcgi_path_info;
17     }
18 }
```

Hasil :

```
nginx > default.conf
1  server {
2      listen 80;
3      index index.php index.html;
4      root /var/www/html;
5
6      location / {
7          try_files $uri $uri/ =404;
8      }
9
10     location ~ \.php$ {
11         fastcgi_split_path_info ^(.+\.php)(/.+)$;
12         fastcgi_pass php:9000; # Meneruskan ke Service PHP (Port 9000 default PHP-FPM)
13         fastcgi_index index.php;
14         include fastcgi_params;
15         fastcgi_param SCRIPT_FILENAME $document_root$fastcgi_script_name;
16         fastcgi_param PATH_INFO $fastcgi_path_info;
17     }
18 }
```

Buat File Uji Coba web/index.php: Buat file ini di dalam folder web untuk menguji konektivitas Nginx dan PHP.

```
web > index.php > ...
1  <?php
2  echo "<h1>LEMP Stack Berhasil Dijalankan!</h1>";
3  echo "<p>PHP Version: " . phpversion() . "</p>";
4
5  $host = 'db';
6  $user = 'userku';
7  $pass = 'passwordku'; // Pastikan sesuai dengan variabel ENV di docker-compose.yml
8  $db = 'praktikumd';
9
10 $conn = mysqli_connect($host, $user, $pass, $db);
11
12 if ($conn) {
13     echo "<p style='color: green;'>Koneksi Database Berhasil!</p>";
14 } else {
15     echo "<p style='color: red;'>Koneksi Database Gagal: " . mysqli_connect_error() . "</p>";
16 }
17 }
```

Hasil :

```

web > index.php
1  <?php
2  echo "<h1>LEMP Stack Berhasil Dijalankan!</h1>";
3  echo "<p>PHP Version: " . phpversion() . "</p>";
4
5  $host = 'db';
6  $user = 'userku';
7  $pass = 'passwordku'; // Pastikan sesuai dengan variabel ENV di docker-compose.yml
8  $db = 'praktikumbd';
9
10 $conn = mysqli_connect($host, $user, $pass, $db);
11
12 if ($conn) {
13     echo "<p style='color: green;'>Koneksi Database Berhasil</p>";
14 } else {
15     echo "<p style='color: red;'>Koneksi Database Gagal: " . mysqli_connect_error() . "</p>";
16 }
17 ?>

```

Agar mysqli bisa digunakan oleh PHP maka, dockerfile perlu di buat:

```

php > Dockerfile
1  # php/Dockerfile
2
3  # 1. Image Dasar
4  FROM php:7.4-fpm-alpine
5
6  # Install MySQLi extension
7  RUN docker-php-ext-install mysqli
8
9
10

```

Hasil :

```

php > Dockerfile
1  # php/Dockerfile
2
3  # 1. Image Dasar
4  FROM php:7.4-fpm-alpine
5
6  # Install MySQLi extension
7  RUN docker-php-ext-install mysqli
8

```

C. Menjalankan dan Menguji Stack

Tujuan: Menjalankan semua container dan memverifikasi koneksi.

1. Buka Terminal Windows: Buka PowerShell atau Command Prompt dan arahkan ke direktori proyek utama Anda (cd C:\docker-lemp-praktikum).

```
Windows PowerShell
Copyright (C) Microsoft Corporation. All rights reserved.

Install the latest PowerShell for new features and improvements! https://aka.ms/PSWindows

PS C:\docker-lemp-praktikum> |
```

2. Jalankan Docker Compose: Jalankan perintah untuk membangun (build) image jika diperlukan dan menjalankan semua layanan.

- a. Perintah: docker-compose up -d
- b. Opsi -d (detached) akan menjalankan container di latar belakang.

```
PS C:\docker-lemp-praktikum> docker-compose up -d
time="2025-11-14T20:22:31+07:00" level=warning msg="C:\\docker-lemp-praktikum\\docker-compose.yml: the attribute 'version'
[+] Running 21/21
  ✓ nginx Pulled                                9.9s
  ✓ 3e308a7cb18c Pull complete                  5.0s
  ✓ f637881d1138 Pull complete                  4.3s
  ✓ c4fca37af7b3 Pull complete                  2.1s
  ✓ e6918dcfd20d Pull complete                  1.8s
  ✓ b8554c5f1ad0 Pull complete                  4.6s
  ✓ bcd17488b05e Pull complete                  4.8s
  ✓ 71a39d0d04b2 Pull complete                  4.7s
  ✓ 8e049f0fd151 Pull complete                  1.9s
  ✓ db Pulled                                  20.7s
  ✓ df9a4d85569b Pull complete                  1.4s
  ✓ 6b95a940e7b6 Pull complete                  15.0s
  ✓ 1c56c3d4ce74 Pull complete                  0.8s
  ✓ 90986bb8de6e Pull complete                  1.4s
  ✓ ae71319cb779 Pull complete                  15.3s
  ✓ e9f03a1c24ce Pull complete                  0.8s
  ✓ ffc89e9df888 Pull complete                  2.9s
  ✓ 20e4dcae4c69 Pull complete                  14.7s
  ✓ 68c3898c2015 Pull complete                  14.9s
  ✓ 064b2d298fba Pull complete                  2.0s
  ✓ 43d05e938198 Pull complete                  16.9s
[+] Building 34.4s (8/8) FINISHED
=> [internal] Load local bake definitions          0.0s
=> => reading from stdin 530B                      0.0s
=> [internal] Load build definition from Dockerfile 0.1s
=> => transferring dockerfile: 163B                 0.0s
=> [internal] Load metadata for docker.io/library/php:7.4-fpm-alpine 5.6s
=> [internal] Load .dockernignore                  0.1s
=> => transferring context: 2B                      0.0s
=> [1/2] FROM docker.io/library/php:7.4-fpm-alpine@sha256:0aeb129a60daff2874c5c70fcd9d88cdf3015b4fb4cc7c3f1a32a2 5.1s
=> => resolve docker.io/library/php:7.4-fpm-alpine@sha256:0aeb129a60daff2874c5c70fcd9d88cdf3015b4fb4cc7c3f1a32a2 0.0s
=> => sha256:9820b782a6282df04c53f7626b7de4fd19ef69ddff066214efa5b2fc73a739f 18.66kB / 18.66kB 0.3s
=> => sha256:a9e6097c1efac68e19dae7ae83dd5b74a4fac7b246320168387aa66637b1c901 8.44kB / 8.44kB 0.6s
=> => sha256:759eb398abada1578a620d6474e5e3affec372d7b589bd83051c5407e6bfe2e71 2.45kB / 2.45kB 0.9s
=> => sha256:e427679e7c26bleeba93df4fd79a0c88bfc721bc4510195968798bb655456f 11.46MB / 11.46MB 4.3s
=> => sha256:96243f515dda95b97690b395de3ca9d9acfd9b9434602618e0a040bc0419d53d1 496B / 496B 0.6s
=> => sha256:3b1be5f82bec4a03578bdc484547818e26c7313d2fb9889428db6718b00850c 10.44MB / 10.44MB 2.3s
=> => sha256:0e2e66b89284d71ee13c90182fe35d46d2461573064ae7f020aa4c22c1235e2a 267B / 267B 0.3s
=> => sha256:9d6040f2a28f7fd4288a87be2db7a8886104a1080402d0343e1c527c232d8963 1.26kB / 1.26kB 2.0s
=> => sha256:1b78b4fe0ca1ca5277d0b56997b3a74ac05ac52ff34cf9d5c6c063bd3feca07e 1.72MB / 1.72MB 0.4s
=> => sha256:ca7dd9ec2225f2385955c43b2379305acd51543c28cf1d4e94522b3d94cce3ce 2.81MB / 2.81MB 1.7s
=> => extracting sha256:ca7dd9ec2225f2385955c43b2379305acd51543c28cf1d4e94522b3d94cce3ce 0.1s
=> => extracting sha256:1b78b4fe0ca1ca5277d0b56997b3a74ac05ac52ff34cf9d5c6c063bd3feca07e 0.1s
```

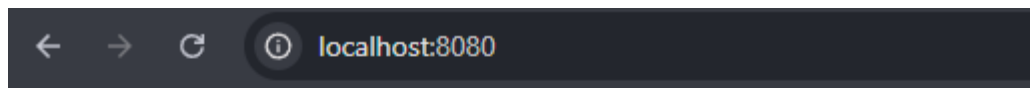
3. Verifikasi Status Container: Pastikan ketiga container (nginx, php, db) sedang berjalan.

- a. Perintah: docker ps

CONTAINER ID	IMAGE	COMMAND	CREATED	STATUS	PORTS	NAMES
b913e7a2de21	nginx:stable-alpine	"/docker-entrypoint..."	34 seconds ago	Up 33 seconds	0.0.0.0:8080->80/tcp, [::]:8080->80/tcp	lemp_nginx
7cbb59abf081	docker-lemp-praktikum-php	"docker-php-entrypoi..."	34 seconds ago	Up 34 seconds	9000/tcp	lemp_php
4873a24a6c2e	mysql:5.7	"docker-entrypoint.s..."	34 seconds ago	Up 34 seconds	3306/tcp, 33060/tcp	lemp_mysql

4. Uji Coba di Browser: Akses web server melalui port 8080 yang sudah di-mapping.

- a. Alamat: <http://localhost:8080>
- b. Jika Anda melihat halaman PHP yang menunjukkan "Koneksi Database Berhasil!", maka seluruh LEMP stack Anda sudah berjalan dengan baik di Docker Desktop.



LEMP Stack Berhasil Dijalankan!

PHP Version: 7.4.33

Koneksi Database Berhasil

5. Menghentikan Container: Untuk menghentikan dan membersihkan container serta network saat praktikum selesai:

- a. Perintah: docker-compose down

```
PS C:\docker-lemp-praktikum> docker-compose down
time="2025-11-10T20:37:43+07:00" level=warning msg="C:\\docker-lemp-praktikum\\docker-compose.yml: the attribute 'version' is obsolete, it will be ignored, please remove it to avoid potential confusion"
[+] Running 4/4
  ✓ Container lemp_nginx      Removed
  ✓ Container lemp_mysql      Removed
  ✓ Container lemp_php        Removed
  ✓ Network docker-lemp-praktikum_lemp_net  Removed
```

D. Tugas Praktikum

- a. List service apa saja yang dibutuhkan oleh PBL mu untuk di jalankan didalam docker.

1. Service Admin (PHP Native + Apache)

```
docker-compose.yml  Dockerfile admin  Dockerfile api
admin > Dockerfile
1 FROM php:8.2-apache
2
3 RUN docker-php-ext-install mysqli pdo pdo_mysql
4
5 COPY . /var/www/html/
6
7 EXPOSE 80
8
```

2. Service API (PHP Native)

```
docker-compose.yml  Dockerfile admin  Dockerfile api
api > Dockerfile
1 FROM php:8.2-apache
2
3 RUN docker-php-ext-install mysqli pdo pdo_mysql
4
5 COPY . /var/www/html/
6
7 EXPOSE 80
8
```

3. Service Database (MySQL 8)

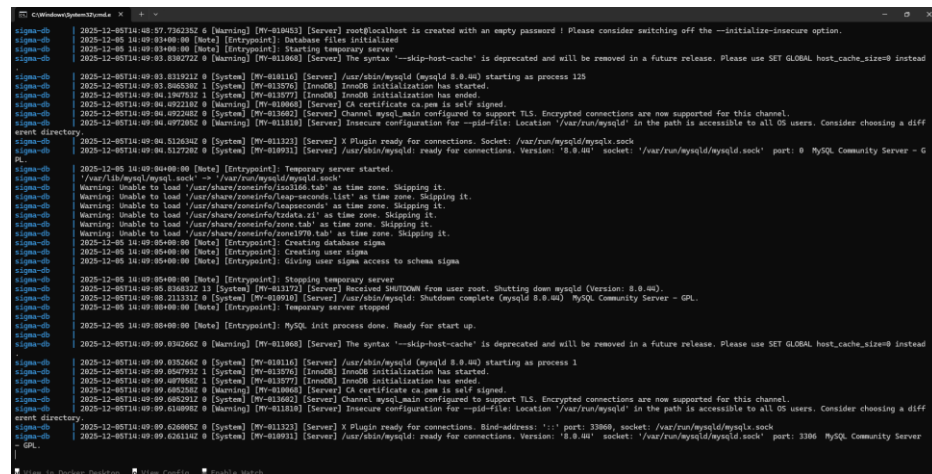
Menyimpan seluruh data PBL: users, students, lecturers, guidances, schedules, documents, activities, notifications, dll.

- b. Buat docker-compose.yml yang sesuai dengan service yang akan kamu gunakan.

```
1  services:
2    admin:
3      build:
4        context: ./admin
5        dockerfile: Dockerfile
6      container_name: sigma-admin
7      ports:
8        - "8080:80"
9      depends_on:
10       - db
11
12   api:
13     build:
14       context: ./api
15       dockerfile: Dockerfile
16     container_name: sigma-api
17     ports:
18       - "8081:80"
19     depends_on:
20       - db
21
22   db:
23     image: mysql:8.0
24     container_name: sigma-db
25     restart: always
26     environment:
27       MYSQL_ROOT_PASSWORD: root
28       MYSQL_DATABASE: sigma
29       MYSQL_USER: sigma
30       MYSQL_PASSWORD: sigma123
31     ports:
32       - "3307:3306"
33     volumes:
34       - db_data:/var/lib/mysql
35
36   volumes:
37     db_data:
```

- c. Lakukan uji coba.

1. docker compose up --build



```
C:\Windows\System32\cmd.exe
sigma-db 2025-12-05T14:08:57.7362352Z 6 [Warning] [MY-010833] [Server] root@localhost is created with an empty password ! Please consider switching off the --initialize-insecure option.
sigma-db 2025-12-05 14:08:57.84000000 [Note] [Entrypoint]: Database files initialized
sigma-db 2025-12-05 14:08:57.84000000 [Note] [Entrypoint]: Starting temporary server
sigma-db 2025-12-05T14:09:03.8392722Z 0 [Warning] [MY-011868] [Server] The syntax '--skip-host-cache' is deprecated and will be removed in a future release. Please use SET GLOBAL host_cache_size=0 instead
sigma-db 2025-12-05T14:09:03.8319212Z 0 [System] [MY-010116] [Server] /usr/sbin/mysqld (mysqld 8.0.40) starting as process 125
sigma-db 2025-12-05T14:09:03.8400350Z 1 [System] [MY-010790] [InnoDB] InnoDB initialization has started.
sigma-db 2025-12-05T14:09:04.1907532Z 1 [System] [MY-010797] [InnoDB] InnoDB initialization has ended.
sigma-db 2025-12-05T14:09:04.4022182Z 0 [Warning] [MY-010866] [Server] CA certificate ca.pem is self signed.
sigma-db 2025-12-05T14:09:04.4022482Z 0 [System] [MY-010662] [Server] Channel mysql_main configured to support TLS. Encrypted connections are now supported for this channel.
sigma-db 2025-12-05T14:09:04.4072852Z 0 [Warning] [MY-011810] [Server] Insecure configuration for --pid-file: Location '/var/run/mysqld' in the path is accessible to all OS users. Consider choosing a diff
erent directory.
sigma-db 2025-12-05T14:09:04.5126342Z 0 [System] [MY-011323] [Server] X Plugin ready for connections. Socket: /var/run/mysqld/mysqld.sock
sigma-db 2025-12-05T14:09:04.5127282Z 0 [System] [MY-010913] [Server] /usr/sbin/mysqld: ready for connections. Version: '8.0.40' socket: '/var/run/mysqld/mysqld.sock' port: 0 MySQL Community Server - G
PL
sigma-db 2025-12-05 14:09:04.60000000 [Note] [Entrypoint]: Temporary server started.
sigma-db /var/lib/mysql/mysql.sock -> /var/run/mysqld/mysqld.sock
sigma-db Warning: Unable to load '/usr/share/zoneinfo/iso3166.tab' as time zone. Skipping it.
sigma-db Warning: Unable to load '/usr/share/zoneinfo/leap-seconds.list' as time zone. Skipping it.
sigma-db Warning: Unable to load '/usr/share/zoneinfo/leapseconds' as time zone. Skipping it.
sigma-db Warning: Unable to load '/usr/share/zoneinfo/tzdata.zi' as time zone. Skipping it.
sigma-db Warning: Unable to load '/usr/share/zoneinfo/zone.tab' as time zone. Skipping it.
sigma-db Warning: Unable to load '/usr/share/zoneinfo/zone27b.tab' as time zone. Skipping it.
sigma-db 2025-12-05 14:09:05.40000000 [Note] [Entrypoint]: Creating database sigma
sigma-db 2025-12-05 14:09:05.40000000 [Note] [Entrypoint]: Creating user sigma
sigma-db 2025-12-05 14:09:05.40000000 [Note] [Entrypoint]: Giving user sigma access to schema sigma
sigma-db 2025-12-05 14:09:05.40000000 [Note] [Entrypoint]: Stopping temporary server
sigma-db 2025-12-05T14:09:05.8368322Z 13 [System] [MY-011723] [Server] Received SHUTDOWN from user root. Shutting down mysqld (Version: 8.0.40).
sigma-db 2025-12-05T14:09:05.2113172Z 0 [System] [MY-010912] [Server] /usr/sbin/mysqld: Shutdown complete (mysqld 8.0.40) MySQL Community Server - GPL.
sigma-db 2025-12-05 14:09:05.40000000 [Note] [Entrypoint]: Temporary server stopped.
sigma-db 2025-12-05 14:09:05.40000000 [Note] [Entrypoint]: MySQL init process done. Ready for start up.
sigma-db 2025-12-05T14:09:09.8392662Z 0 [Warning] [MY-011868] [Server] The syntax '--skip-host-cache' is deprecated and will be removed in a future release. Please use SET GLOBAL host_cache_size=0 instead
sigma-db 2025-12-05T14:09:09.8392662Z 0 [System] [MY-010116] [Server] /usr/sbin/mysqld (mysqld 8.0.40) starting as process 1
sigma-db 2025-12-05T14:09:09.8507932Z 1 [System] [MY-010790] [InnoDB] InnoDB initialization has started.
sigma-db 2025-12-05T14:09:09.8697682Z 1 [System] [MY-010797] [InnoDB] InnoDB initialization has ended.
sigma-db 2025-12-05T14:09:09.8697682Z 0 [Warning] [MY-010866] [Server] CA certificate ca.pem is self signed.
sigma-db 2025-12-05T14:09:09.8697682Z 0 [System] [MY-010662] [Server] Channel mysql_main configured to support TLS. Encrypted connections are now supported for this channel.
sigma-db 2025-12-05T14:09:09.8697682Z 0 [Warning] [MY-011810] [Server] Insecure configuration for --pid-file: Location '/var/run/mysqld' in the path is accessible to all OS users. Consider choosing a diff
erent directory.
sigma-db 2025-12-05T14:09:09.8697682Z 0 [System] [MY-011323] [Server] X Plugin ready for connections. Bind-address: '*' port: 3306, socket: /var/run/mysqld/mysqld.sock
sigma-db 2025-12-05T14:09:09.8697682Z 0 [System] [MY-010913] [Server] /usr/sbin/mysqld: ready for connections. Version: '8.0.40' socket: '/var/run/mysqld/mysqld.sock' port: 3306 MySQL Community Server
- GPL
Files in Docker Desktop View Config Enable Watch
```


2. Docker compose up -d

```
time="2025-12-05T21:58:07+07:00" level=warning msg="C:\\xampp\\htdocs\\digita\\SIGMA\\docker-compose.yml: the attribute 'version' is obsolete, it will be ignored, please remove it to avoid potential confusion"
[+] Running 1/1
✓ Container sigma-db Started 0.3s
✓ Container sigma-api Started 0.3s
✓ Container sigma-admin Started 0.3s
```

3. Docker ps

```
C:\xampp\htdocs\digita\SIGMA>docker ps
CONTAINER ID   IMAGE          COMMAND                  CREATED        STATUS        PORTS                                                                 NAMES
29a508de5dcd   sigma-admin    "docker-php-entrypoi..." 9 minutes ago  Up 38 seconds  0.0.0.0:8080->80/tcp, [::]:8080->80/tcp  sigma-admin
91fe9be18cba   sigma-api      "docker-php-entrypoi..." 9 minutes ago  Up 38 seconds  0.0.0.0:8081->80/tcp, [::]:8081->80/tcp  sigma-api
428302a8a664   mysql:8.0      "docker-entrypoint.s..." 9 minutes ago  Up 39 seconds  0.0.0.0:3307->3306/tcp, [::]:3307->3306/tcp  sigma-db
```

- d. Lakukan Eksporting Image Docker agar mudah di pindahkan dan di gunakan di lingkungan pengembangan lain nya. Berikan gambaran hasil dari yang telah dilakukan.

```
C:\xampp\htdocs\SIGMA - ASK>docker save -o sigma-admin.tar sigma-ask-admin
C:\xampp\htdocs\SIGMA - ASK>docker images
IMAGE                                ID                DISK USAGE    CONTENT SIZE  EXTRA
mysql:8.0                           0275a35e79c6      1.06GB        232MB         U
sigma-ask-admin:latest               9e764e77fcc5      714MB         179MB         U
sigma-ask-api:latest                 4db1764a4aaa      708MB         176MB         U
C:\xampp\htdocs\SIGMA - ASK>docker save -o sigma-api.tar sigma-ask-api
C:\xampp\htdocs\SIGMA - ASK>
```

