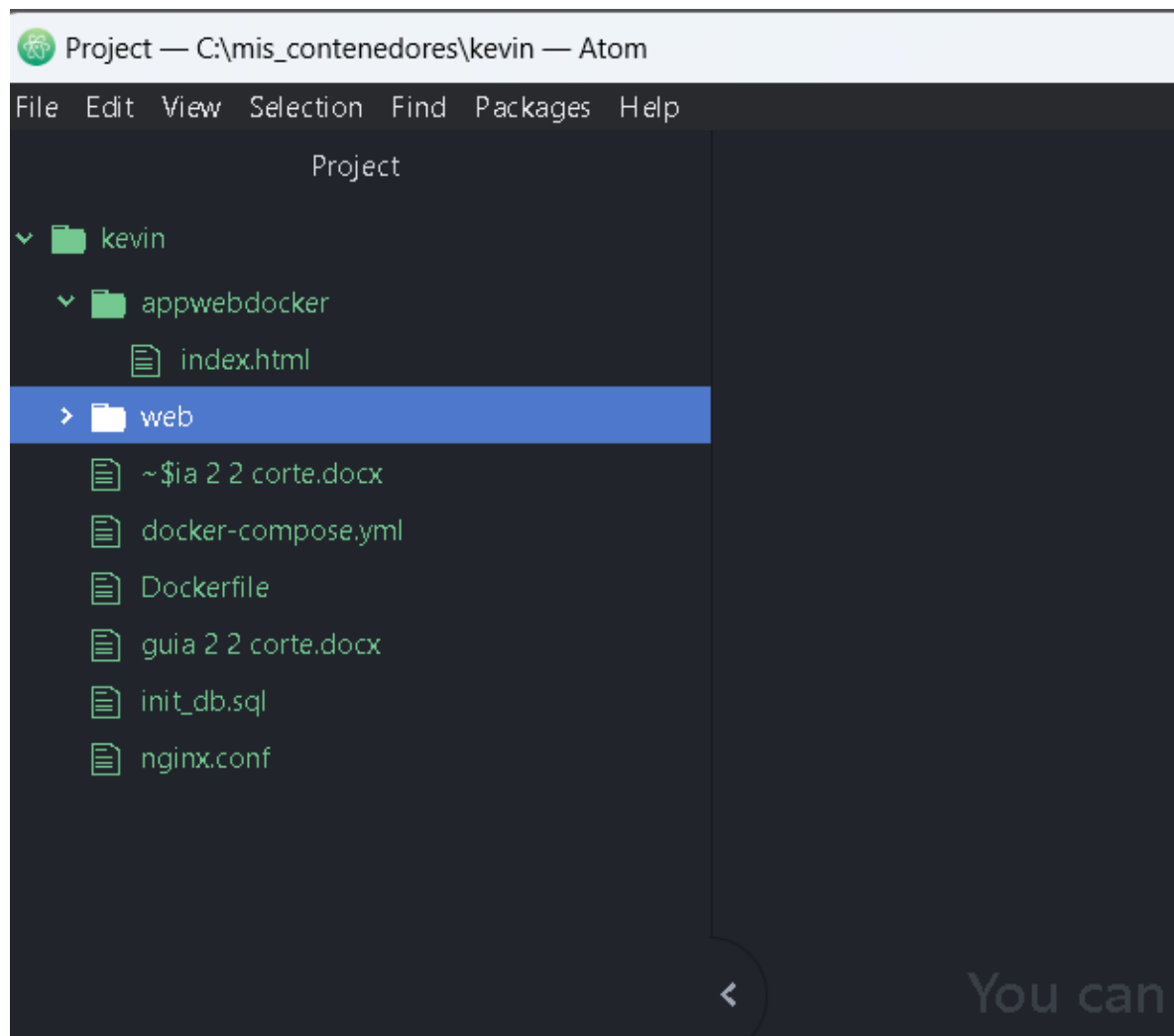
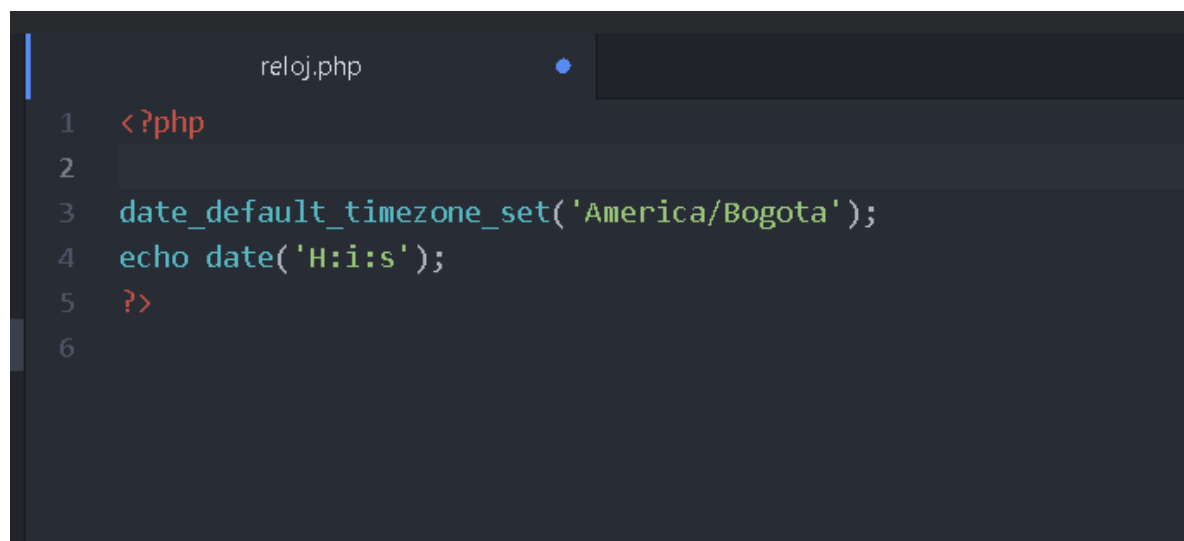


ORGANIZACIÓN DE CARPETAS



RELOG.PHP



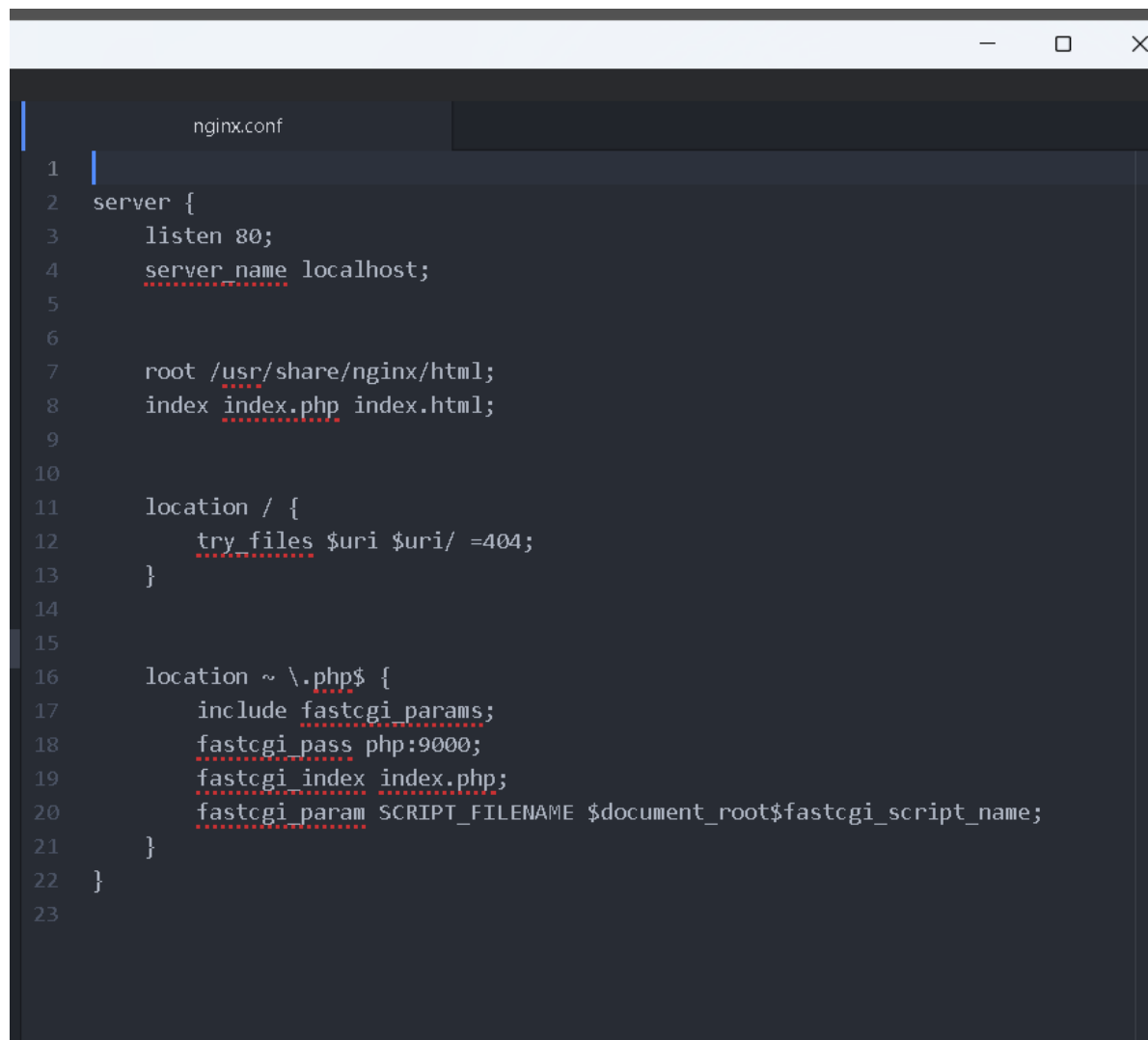
INDEX.HTML

```
reloj.php | index.html
1 <!DOCTYPE html>
2 <html lang="en">
3 <head>
4   <meta charset="UTF-8" />
5   <meta name="viewport" content="width=device-width, initial-scale=1.0"/>
6   <title>Reloj Digital</title>
7   <link href="https://fonts.googleapis.com/css2?family=Orbitron:wght@500&display=swap" rel="stylesheet">
8   <style>
9     body {
10       margin: 0;
11       height: 100vh;
12       display: flex;
13       justify-content: center;
14       align-items: center;
15       background: linear-gradient(135deg, #0f2027, #203a43, #2c5364);
16       font-family: 'Orbitron', sans-serif;
17     }
18
19     .clock {
20       font-size: 6em;
21       color: #00ffe7;
22       text-shadow: 0 0 20px rgba(0, 255, 231, 0.7), 0 0 40px rgba(0, 255, 231, 0.5);
23       transition: all 0.3s ease;
24       padding: 20px 40px;
25       border: 3px solid #00ffe7;
26       border-radius: 15px;
27       background-color: rgba(0, 0, 0, 0.3);
28     }
29   </style>
30 </head>
31 <body>
32   <div class="clock" id="clock">Cargando...</div>
33   <script>
```

DOCKER-COMPOSE.YML

```
docker-compose.yml
1 version: '3.8'
2
3 services:
4   web:
5     image: nginx:latest
6     ports:
7       - "8080:80"
8     volumes:
9       - ./web:/usr/share/nginx/html
10      - ./nginx.conf:/etc/nginx/conf.d/default.conf
11     depends_on:
12       - php
13
14   php:
15     build:
16       context: .
17       dockerfile: Dockerfile
18     volumes:
19       - ./web:/usr/share/nginx/html
20     depends_on:
21       - db
22
23   db:
24     image: mysql:5.7
25     restart: always
26     environment:
27       MYSQL_ROOT_PASSWORD: root
28       MYSQL_DATABASE: reloj_db
29       MYSQL_USER: user
30       MYSQL_PASSWORD: password
31     ports:
32       - "3306:3306"
33     volumes:
```

NGINX.CONF

A screenshot of a code editor window showing the configuration file 'nginx.conf'. The editor has a dark theme and a light blue vertical bar on the left side. The code is written in a light gray font. The configuration is for a single server listening on port 80, with the server name 'localhost'. The root directory is '/usr/share/nginx/html'. The index files are 'index.php' and 'index.html'. There are two location blocks: one for the root path '/' that tries to serve files and returns 404 if not found, and another for PHP files that includes 'fastcgi_params', passes requests to 'php:9000', and sets the 'SCRIPT_FILENAME' parameter to the document root plus the script name. The code is numbered from 1 to 23 on the left margin.

```
1 |
2 | server {
3 |     listen 80;
4 |     server_name localhost;
5 |
6 |
7 |     root /usr/share/nginx/html;
8 |     index index.php index.html;
9 |
10 |
11 |     location / {
12 |         try_files $uri $uri/ =404;
13 |     }
14 |
15 |
16 |     location ~ /\.php$ {
17 |         include fastcgi_params;
18 |         fastcgi_pass php:9000;
19 |         fastcgi_index index.php;
20 |         fastcgi_param SCRIPT_FILENAME $document_root$fastcgi_script_name;
21 |     }
22 | }
23 |
```

COMANDO docker-compose up -d PARA LEVANTAS LOS CONTENEDORES

```
PS C:\mis_contenedores\kevin> docker-compose up -d
docker-compose : time="2025-05-03T00:54:09-05:00" level=warning msg="C:\\mis_contenedores\\kevin\\docker-compose.yml: the attribute
'version' is obsolete, it will be ignored, please remove it to avoid potential confusion"
En línea: 1 Carácter: 1
+ docker-compose up -d
+ ~~~~~
+ CategoryInfo          : NotSpecified: (time="2025-05-0...tial confusion":String) [], RemoteException
+ FullyQualifiedErrorId : NativeCommandError

web Pulling
db Pulling
web Pulled
db Pulled
Compose now can delegate build to bake for better performances
Just set COMPOSE_BAKE=true
#0 building with "desktop-linux" instance using docker driver

#1 [php internal] load build definition from Dockerfile
#1 transferring dockerfile:
#1 transferring dockerfile: 92B 0.1s done
#1 DONE 0.2s

#2 [php internal] load metadata for docker.io/library/php:8.1-fpm
#2 DONE 0.1s

#3 [php internal] load .dockerignore
#3 transferring context: 0.0s
#3 transferring context: 2B 0.0s done
#3 DONE 0.1s

#4 [php 1/2] FROM docker.io/library/php:8.1-fpm@sha256:9711445cf92fbdeb42c4396ce4ad405ead54f38ff876d1093ec0abad98c75a16
#4 resolve docker.io/library/php:8.1-fpm@sha256:9711445cf92fbdeb42c4396ce4ad405ead54f38ff876d1093ec0abad98c75a16
#4 ...

#5 [php auth] library/php:pull token for registry-1.docker.io
#5 DONE 0.0s
```

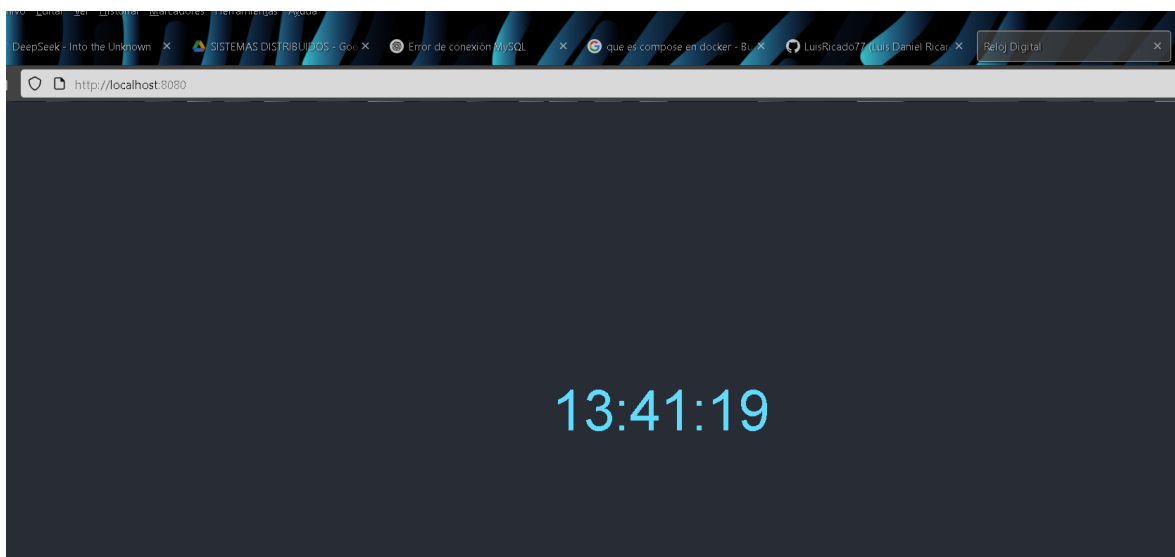
Docker ps

```
PS C:\mis_contenedores\kevin> docker ps
PS C:\mis_contenedores\kevin>


| CONTAINER ID | IMAGE        | COMMAND                  | CREATED        | STATUS        | PORTS                             | NAMES    |
|--------------|--------------|--------------------------|----------------|---------------|-----------------------------------|----------|
| b88d4d8cea0c | nginx:latest | "/docker-entrypoint.â€¦" | 45 seconds ago | Up 42 seconds | 0.0.0.0:8080->80/tcp              | kevin-we |
| b-1          | kevin-php    | "docker-php-entrypoiâ€¦" | 45 seconds ago | Up 43 seconds | 9000/tcp                          | kevin-ph |
| 607275c4450b | mysql:5.7    | "docker-entrypoint.sâ€¦" | 46 seconds ago | Up 44 seconds | 0.0.0.0:3306->3306/tcp, 33060/tcp | kevin-db |
| p-1          |              |                          |                |               |                                   |          |
| 4755779578d3 |              |                          |                |               |                                   |          |
| -1           |              |                          |                |               |                                   |          |


PS C:\mis_contenedores\kevin> |
```

Resultado



Ver_horas.php

```
nginx.conf | ver_horas.php | X
1 <?php
2 $host = 'db';
3 $db = 'reloj_db';
4 $user = 'user';
5 $pass = 'password';
6 $conn = new mysqli($host, $user, $pass, $db);
7 if ($conn->connect_error) {
8     die("Error de conexión: " . $conn->connect_error);
9
10 }
11
12 $result = $conn->query("SELECT * FROM horas ORDER BY id DESC LIMIT 10");
13 echo "<h2>Últimas horas registradas:</h2>";
14 echo "<table border='1'><tr><th>ID</th><th>Hora</th><th>Fecha</th></tr>";
15     while ($row = $result->fetch_assoc()) {
16         echo "<tr><td>{$row['id']}</td><td>{$row['hora']}</td><td>{$row['fecha']}</td>";
17     } echo "</table>";
18     $conn->close();
19     ?>
```

Dockerfile

```
nginx.conf | ver_horas.php |
FROM php:8.1-fpm

RUN docker-php-ext-install mysqli
```

init_db.sql

p

	nginx.conf	ver_horas.php	init_db.sql
1	CREATE TABLE IF NOT EXISTS horas (
2	id INT AUTO_INCREMENT PRIMARY KEY,		
3	hora TIME NOT NULL, fecha DATE NOT NULL		
4);		

Docker-compose.yml

```
nginx.conf  *  ver_horas.php  init_db.sql  docker-compose.yml

version: '3.8'

services:
  web:
    image: nginx:latest
    ports:
      - "8080:80"
    volumes:
      - ./web:/usr/share/nginx/html
      - ./nginx.conf:/etc/nginx/conf.d/default.conf
    depends_on:
      - php

  php:
    build:
      context: .
      dockerfile: Dockerfile
    volumes:
      - ./web:/usr/share/nginx/html
    depends_on:
      - db

  db:
    image: mysql:5.7
    restart: always
    environment:
      MYSQL_ROOT_PASSWORD: root
      MYSQL_DATABASE: reloj_db
      MYSQL_USER: user
      MYSQL_PASSWORD: password
    ports:
      - "3306:3306"
    volumes:
```

test_db.php

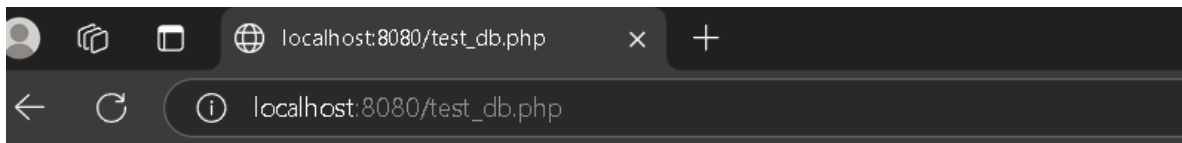
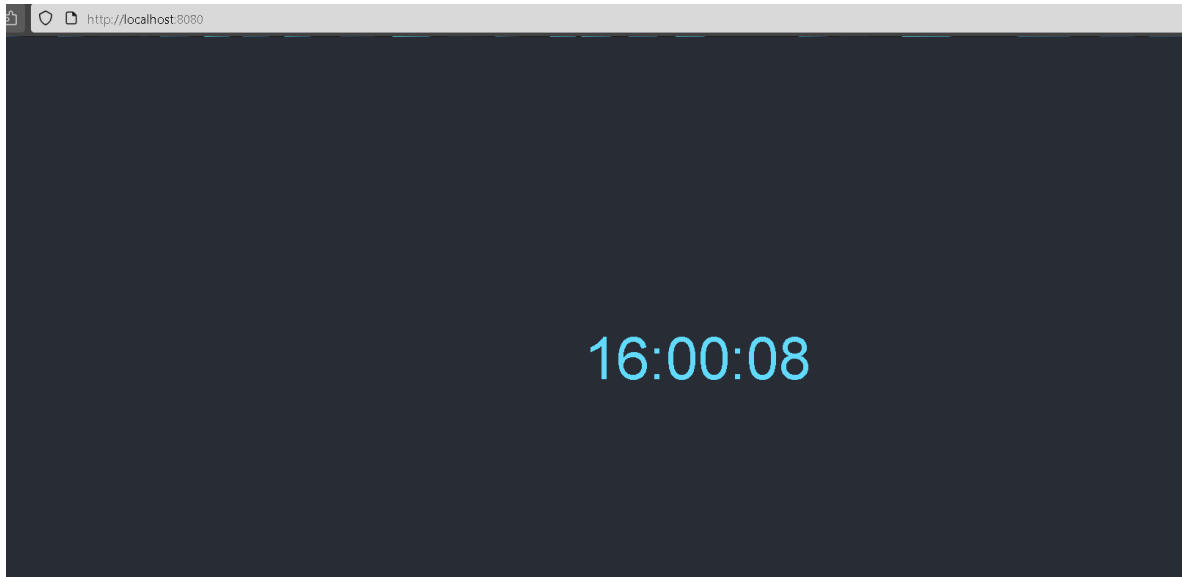
```
nginx.conf  ver_horas.php  init_db.sql  docker-compose.yml  test_db.php

1  <?php
2  date_default_timezone_set('America/Bogota');
3
4
5  $host = 'db';
6  $db = 'reloj_db';
7  $user = 'user';
8  $pass = 'password';
9  $conn = new mysqli($host, $user, $pass, $db);
10  if ($conn->connect_error) {
11      die("Error de conexión: " . $conn->connect_error);
12  }
13
14
15  $hora = date('H:i:s'); $fecha = date('Y-m-d');
16
17  $stmt = $conn->prepare("INSERT INTO horas (hora, fecha) VALUES (?, ?)");
18  $stmt->bind_param("ss", $hora, $fecha);
19  $stmt->execute();
20  $stmt->close();
21
22  echo $hora;
23
24
25  $conn->close();
26
27  ?>
```

Subiendo los contenedores

```
PS C:\mis_contenedores\appwebdocker> docker-compose up --build -d
time="2025-04-05T14:11:33-05:00" level=warning msg="C:\mis_contenedores\docker-compose.yml: the attribute
`version` is obsolete, it will be ignored, please remove it to avoid potential confusion"
[+] Running 13/13
 ✓ web Pulled                                14.7s
 ✓ db Pulled                                70.6s
   ✓ 1c56c3d4ce74 Pull complete              25.7s
   ✓ 43d05e938198 Pull complete              54.9s
   ✓ 064b2d298fba Pull complete               1.4s
   ✓ 20e4dcae4c69 Pull complete              25.6s
   ✓ ae71319cb779 Pull complete              27.6s
   ✓ 90986bb8de6e Pull complete               0.9s
   ✓ 6b95a940e7b6 Pull complete               0.8s
   ✓ ffc89e9dfd88 Pull complete               0.9s
   ✓ e9f03a1c24ce Pull complete              25.8s
   ✓ 68c3898c2015 Pull complete              26.1s
   ✓ df9a4d85569b Pull complete              54.9s
Compose now can delegate build to bake for better performances
Just set COMPOSE_BAKE=true
[+] Building 27.5s (8/8) FINISHED                                docker:desktop-linux
=> [php internal] load build definition from Dockerfile          0.3s
=> => transferring dockerfile: 92B                               0.1s
=> [php internal] load metadata for docker.io/library/php:8.1-fpm 0.6s
=> [php internal] load .dockerignore                             0.1s
=> => transferring context: 2B                                    0.0s
=> [php 1/2] FROM docker.io/library/php:8.1-fpm@sha256:9711445cf92fbdeb42c4396ce4ad405ead54f38ff876 3.4s
=> => resolve docker.io/library/php:8.1-fpm@sha256:9711445cf92fbdeb42c4396ce4ad405ead54f38ff876d109 2.7s
=> [php auth] library/php:pull token for registry-1.docker.io    0.0s
=> [php 2/2] RUN docker-php-ext-install mysqli                    21.3s
=> [php] exporting to image                                       1.0s
=> => exporting layers                                           0.4s
=> => exporting manifest sha256:91009e5e8f4457435765a0062fbcc1607fe6d69e1bcb0cb9003d74b2d90edb3f 0.1s
=> => exporting config sha256:bcf4f8752d5322d1f08d0e07965757086344a3f12cf0a681587c7392f7dcc89e 0.0s
=> => exporting attestation manifest sha256:3669bbe750fcd0f219a019bb184b8c4481881203df7556fa32f7b4e 0.1s
=> => exporting manifest list sha256:7b53cf31a4f39932ce86ccfa6ee8d6d68d18c24dcfecb61ac7cec2bebf9469 0.0s
=> => naming to docker.io/library/mis_contenedores-php:latest 0.0s
=> => unpacking to docker.io/library/mis_contenedores-php:latest 0.1s
=> [php] resolving provenance for metadata file                  0.1s
[+] Running 6/6
 ✓ php Built 0.0s
 ✓ Network mis_contenedores_default Created 0.1s
 ✓ Volume "mis_contenedores_db_data" Created 0.0s
 ✓ Container mis_contenedores-db-1 Started 2.3s
 ✓ Container mis_contenedores-php-1 Started 2.3s
 ✓ Container mis_contenedores-web-1 Started 2.4s
PS C:\mis_contenedores\appwebdocker>
```

Verificar los resultados



00:58:35

localhost:8080/ver_horas.php

×

+

←

↺

i

localhost:8080/ver_horas.php

Últimas horas registradas:

ID	Hora	Fecha
1	00:58:35	2025-05-03