INSTALACIÓN PROYECTO REACT-SYMFONY + BD en AWS

GitHub: https://github.com/anaGG07/Despliegue.git

Partiendo de la tarea anterior, PHP, composer, git y la configuración del entorno ya está hecho.

1. Configurar Frontend

1. Crear poryecto con vite

```
Ana@ANIROG MINGW64 ~/Desktop/Curso/.Despliegue/UD 3/react-symfony/02.Despliegue-CompletoAMG (main)

$ cd 02.Despliegue-CompletoAMG (main)

$ mkdir backend frontend database web

Ana@ANIROG MINGW64 ~/Desktop/Curso/.Despliegue/UD 3/react-symfony/02.Despliegue-CompletoAMG (main)

$ cd frontend/

Ana@ANIROG MINGW64 ~/Desktop/Curso/.Despliegue/UD 3/react-symfony/02.Despliegue-CompletoAMG/frontend (main)

$ npm create vite@latest .

> npx

> create-vite .

$ Select a framework: ** React  
$ Select a variant: ** JavaScript + SWC
```

2. Variable de entorno

```
1 CHOKIDAR_USEPOLLING=true
```

3. Configuración .env

```
import { defineConfig } from 'vite'
import react from '@vitejs/plugin-react-swc'

// https://vitejs.dev/config/
export default defineConfig({
  plugins: [react()],
  server: {
   host: "0.0.0.0",
   allowedHosts: ['frontend'],
  }
})
```

4. Configuración App.jsx

5. Crear DockerfileFrontendAMG

```
FROM node:23-alpine

WORKDIR /app

COPY package*.json ./
RUN npm install

COPY . .

EXPOSE 5173

CMD ["npm", "run", "dev", "--", "--host", "0.0.0.0"]
```

2. Configurar Backend

1. Crear proyecto con Symfony

```
Ana@ANIROG MINGW64 ~/Desktop/Curso/.Despliegue/UD 3/react-symfony/02.Despliegue-CompletoAMG/backend (main) $ symfony new --webapp backend --no-git * Creating a new Symfony project with Composer
```

2. Crear controlador AMG_Controller.php

```
namespace App\Controller;

use Doctrine\DBAL\Connection;
use Symfony\Bundle\FrameworkBundle\Controller\AbstractController;
use Symfony\Component\HttpFoundation\JoonResponse;
use Symfony\Component\HttpFoundation\JoonResponse;
use Symfony\Component\Routing\Annotation\Route;

\text{You.koce3 horss[lauthor(You)]}
class AMG_Controller extends AbstractController

{
    private Connection $connection;

    public function __construct(Connection $connection)

{
        $this→connection = $connection;

    }

    labrine|Edit|Test|Explain|Document
        #fRoute('/api/ang', name:'get_amg')]
    public function index(): JoonResponse

{
        $sql = 'SELECT fraseAMG FROM secretosAMG LIMIT 1';
         $result = $this→connection→fetchOne($sql);
        return $this→json(['message' ⇒ $result ?: 'No hay mensajes en la BO']);
    }
}
```

3. Añadir la conexión a bd en .env

```
DATABASE_URL="mysql://alumnoDAW:passAMG@db:3306/AMG_BD"
```

4. Crear la entidad TablaAMG

5. Crear DockerfileBackendAMG

```
RUN apt-get update && apt-get install -y \
git unzip libicu-dev \
&& docker-php-ext-install pdo pdo_mysql

COPY --from=composer:2 /usr/bin/composer /usr/bin/composer

WORKDIR /app

COPY . .

RUN composer install
RUN php bin/console doctrine:migrations:migrate --no-interaction

EXPOSE 8000

CMD ["php", "-S", "0.0.0.0:8000", "-t", "public"]
```

6. Configuración base de datos database/init.sql

```
CREATE TABLE secretosAMG (
   id INT AUTO_INCREMENT PRIMARY KEY,
   fraseAMG VARCHAR(255) NOT NULL
);

> Run
INSERT INTO secretosAMG (fraseAMG) VALUES ('La base de datos responde, buenos días Ana María García García');
```

7. Configuración docker-compose en raíz

```
frontend:
  build:
  context: //frontend
  dockerfile: DockerfileFrontendAMG
  working_dir: /app
  volumes:
                                                                context: ./web
dockerfile: DockerfileWebAMG
                                                                - ./web/default.conf:/etc/nginx/conf.d/default.conf
                                                                                                                                                            image: phpmyadmin/phpmyadmin
    - ./frontend:/app
- /app/node_modules
                                                                  - '81:80'
                                                              depends_on:
- backend
 - "8080:80"
                                                                                                                                                            environment:
PMA_HOST: db
                                                                 - redAMG
                                                                                                                                                               PMA_USER: alumnoDAW
PMA_PASSWORD: passAMG
                                                              image: mysql:5.7
                                                                                                                                                             depends_on:
                                                                 - ./database/init.sql:/docker-entrypoint-initdb.d/init.sql
                                                                 - db_data:/var/lib/mysql
   context: ./backend
dockerfile: DockerfileBackendAMG
                                                               environment:

MYSQL_ROOT_PASSWORD: root

MYSQL_DATABASE: AMG_BD

MYSQL_USER: alumnoDAW

MYSQL_PASSWORD: passAMG
                                                                                                                                                                - redAMG
 ports:
- '8000:8000'
   - ./backend:/app
                                                                                                                                                         db_data:
 environment:
- APP_ENV=dev
  - db
                                                              networks:
- redAMG
                                                                                                                                                            driver: bridge
```

3. Subida a AWS y Levantar los contenedores

- 1. Levantar todos los servicios con Docker Compose
 - > docker-compose up -d
 - > docker-compose up --build

2. Verificar contenedores

> docker ps

```
ubuntu@ip-172-31-86-69:~/Despliegue$ docker ps
CONTAINER ID
                                                             COMMAND
                                                                                            CREATED
                 IMAGE
                                                             "docker-entrypoint.s.."

"/docker-entrypoint..."
                                                                                            6 minutes ago
6 minutes ago
                                                                                                                Up 6 minutes
Up About a minute
                  despliegue-frontend
35c2e1237251
                  despliegue-nginx
                                                              "docker-php-entrypoi..."
                                                                                                               Up 6 minutes
efbf8217afbd
                 despliegue-backend
                                                                                            6 minutes ago
                                                                                                                Exited (137) 10 days ago
     4cf24434 anagg07/examen_apache_amg:diurno
tu@ip-172-31-86-69:~/Desplieque$ []
                                                              "/bin/bash'
                                                                                            10 days ago
```

4. Pruebas

