

Ya habiendo creado las carpetas frontend y backend nos iremos a la carpeta frontend y haremos un ng new frontend-app para crear el proyecto de Angular.

```
● PS C:\Users\deividsonic2\Desktop\docker-fullstack> cd frontend
● PS C:\Users\deividsonic2\Desktop\docker-fullstack\frontend> ng new frontend-app
  ✓ Which stylesheet format would you like to use? CSS [ https://developer.mozilla.org/docs/Web/CSS ]
  ✓ Do you want to enable Server-Side Rendering (SSR) and Static Site Generation (SSG/Prerendering)? Yes
  ✓ Do you want to create a 'zoneless' application without zone.js? Yes
  ✓ Which AI tools do you want to configure with Angular best practices? https://angular.dev/ai/develop-with-ai None
CREATE frontend-app/angular.json (2494 bytes)
CREATE frontend-app/package.json (1346 bytes)
CREATE frontend-app/README.md (1533 bytes)
CREATE frontend-app/tsconfig.json (1026 bytes)
CREATE frontend-app/.editorconfig (331 bytes)
CREATE frontend-app/.vscode/extensions.json (134 bytes)
CREATE frontend-app/.vscode/launch.json (490 bytes)
CREATE frontend-app/.vscode/tasks.json (988 bytes)
CREATE frontend-app/src/main.ts (228 bytes)
CREATE frontend-app/src/index.html (310 bytes)
CREATE frontend-app/src/styles.css (81 bytes)
CREATE frontend-app/src/main.server.ts (300 bytes)
CREATE frontend-app/src/app/app.ts (306 bytes)
CREATE frontend-app/src/app/app.css (0 bytes)
CREATE frontend-app/src/app/app.html (20464 bytes)
CREATE frontend-app/src/app/app.config.ts (524 bytes)
CREATE frontend-app/src/app/app.routes.ts (80 bytes)
CREATE frontend-app/src/app/app.config.server.ts (438 bytes)
CREATE frontend-app/src/app/app.routes.server.ts (174 bytes)
CREATE frontend-app/public/favicon.ico (15086 bytes)
✓ Packages installed successfully.
warning: in the working copy of 'package-lock.json', LF will be replaced by CRLF the next time Git touches it
warning: in the working copy of 'package.json', LF will be replaced by CRLF the next time Git touches it
  Successfully initialized git.
```

Luego iremos a la carpeta backend y haremos un composer create-project laravel/laravel backend-app para que crear un proyecto de Laravel.

```
PS C:\Users\deividsonic2\Desktop\docker-fullstack> cd backend
PS C:\Users\deividsonic2\Desktop\docker-fullstack\backend> composer create-project laravel/laravel backend-app
Creating a "laravel/laravel" project at "./backend-app"
Installing laravel/laravel (v12.11.2)
  - Installing laravel/laravel (v12.11.2): Extracting archive
Created project in C:\Users\deividsonic2\Desktop\docker-fullstack\backend\backend-app
> @php -r "file_exists('.env') || copy('.env.example', '.env');"
Loading composer repositories with package information
Updating dependencies
Lock file operations: 111 installs, 0 updates, 0 removals
  - Locking brick/math (0.14.7)
  - Locking carbonphp/carbon-doctrine-types (3.2.0)
  - Locking dflydev/dot-access-data (v3.0.3)
  - Locking doctrine/inflector (2.1.0)
  - Locking doctrine/lexer (3.0.1)
  - Locking dragonmantank/cron-expression (v3.6.0)
  - Locking egulias/email-validator (4.0.4)
  - Locking fakerphp/faker (v1.24.1)
  - Locking filip/whoops (2.18.4)
  - Locking fruitcake/php-cors (v1.4.0)
  - Locking graham-campbell/result-type (v1.1.4)
  - Locking guzzlehttp/guzzle (7.10.0)
  - Locking guzzlehttp/promises (2.3.0)
  - Locking guzzlehttp/psr7 (2.8.0)
  - Locking guzzlehttp/uri-template (v1.0.5)
  - Locking hamcrest/hamcrest-php (v2.1.1)
  - Locking laravel/framework (v12.50.0)
```

Con docker compose ps para poder ver los contenedores de docker

```
PS C:\Users\deividsonic2\Desktop\docker-fullstack> docker compose ps
>>
● time="2026-02-09T15:37:48+01:00" level=warning msg="C:\\\\Users\\\\deividsonic2\\\\Desktop\\\\docker-fullstack\\\\docker-compose.yml: the attribute `version` is obsolete, it will be ignored, please remove it to avoid potential confusion"
NAME           IMAGE          COMMAND         SERVICE    CREATED      STATUS        PORTS
docker-fullstack-backend-1   php:8.3-apache "docker-php-entrypoi..." backend    21 seconds ago Up 19 seconds  0.0.0.0:8000->
80/tcp, [::]:8000->80/tcp
docker-fullstack-db-1        mysql:8       "docker-entrypoint.s..." db        23 seconds ago Up 20 seconds  0.0.0.0:3307->
3306/tcp, [::]:3307->3306/tcp
```

Y luego un docker compose logs -f para ver todos los logs

```
PS C:\Users\deividsonic2\Desktop\docker-fullstack> docker compose logs -f
time="2026-02-09T15:38:26+01:00" level=warning msg="C:\\\\Users\\\\deividsonic2\\\\Desktop\\\\docker-fullstack\\\\docker-compose.yml: the attribute `version` is obsolete, it will be ignored, please remove it to avoid potential confusion"
backend-1 | AH00558: apache2: Could not reliably determine the server's fully qualified domain name, using 172.18.0.4. Set the 'ServerName' directive globally to suppress this message
backend-1 | AH00558: apache2: Could not reliably determine the server's fully qualified domain name, using 172.18.0.4. Set the 'ServerName' directive globally to suppress this message
backend-1 | [Mon Feb 09 14:37:29.629090 2026] [mpm_prefork:notice] [pid 1:tid 1] AH00163: Apache/2.4.66 (Debian) PHP/8.3.30 configured -- resuming normal operations
backend-1 | [Mon Feb 09 14:37:29.629573 2026] [core:notice] [pid 1:tid 1] AH00094: Command line: 'apache2 -D FOREGROUND'
Frontend-1 | npm error code ENOENT
Frontend-1 | npm error syscall open
Frontend-1 | npm error path /app/package.json
Frontend-1 | npm error errno -2
Frontend-1 | npm error enoent Could not read package.json: Error: ENOENT: no such file or directory, open '/app/package.json'
Frontend-1 | npm error enoent This is related to npm not being able to find a file.
Frontend-1 | npm error enoent
Frontend-1 | npm error A complete log of this run can be found in: /root/.npm/_logs/2026-02-09T14_37_29_270Z-debug-0.log
db-1  | 2026-02-09 14:37:29+00:00 [Note] [Entrypoint]: Entrypoint script for MySQL Server 8.4.8-1.el9 started.
db-1  | 2026-02-09 14:37:29+00:00 [Note] [Entrypoint]: Switching to dedicated user 'mysql'
db-1  | 2026-02-09 14:37:29+00:00 [Note] [Entrypoint]: Entrypoint script for MySQL Server 8.4.8-1.el9 started.
db-1  | 2026-02-09 14:37:29+00:00 [Note] [Entrypoint]: Initializing database files
db-1  | 2026-02-09T14:37:29.969004Z 0 [System] [MY-015017] [Server] MySQL Server Initialization - start.
db-1  | 2026-02-09T14:37:29.970544Z 0 [System] [MY-013169] [Server] /usr/sbin/mysqld (mysqld 8.4.8) initializing of server in progress as process 80
db-1  | 2026-02-09T14:37:29.980394Z 1 [System] [MY-013576] [InnoDB] InnoDB initialization has started.
db-1  | 2026-02-09T14:37:30.749056Z 1 [System] [MY-013577] [InnoDB] InnoDB initialization has ended.
db-1  | 2026-02-09T14:37:32.786548Z 6 [Warning] [MY-010453] [Server] root@localhost is created with an empty password ! Please consider switching off the --initialize-insecure option.
db-1  | 2026-02-09T14:37:35.891980Z 0 [System] [MY-015018] [Server] MySQL Server Initialization - end.
db-1  | 2026-02-09 14:37:35+00:00 [Note] [Entrypoint]: Database files initialized
db-1  | 2026-02-09 14:37:35+00:00 [Note] [Entrypoint]: Starting temporary server
```

Para poder probar que MySql esta funcionando tendremos que hacer un docker compose exec backend bash, hacer mysql -u laravel -p y si nos pide contraseña significa que esta funcionando.

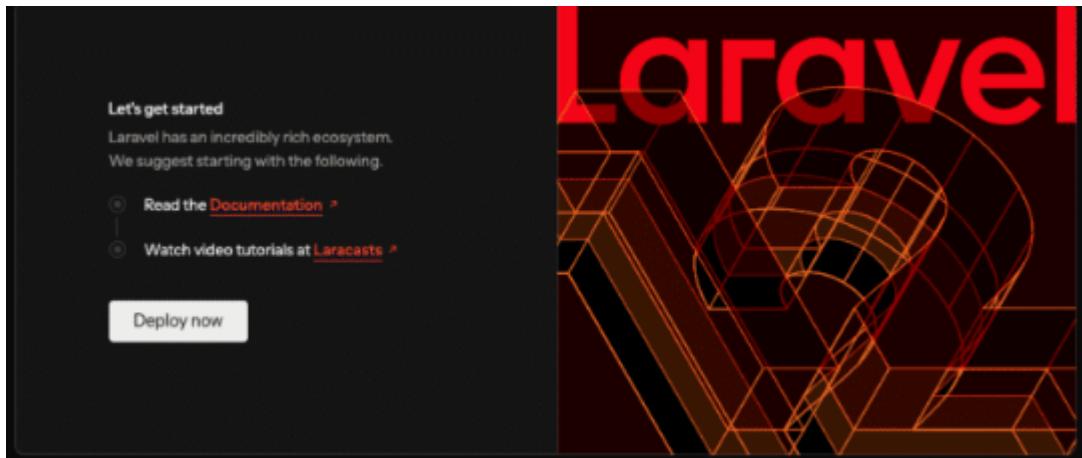
```
PS C:\Users\deividsonic2\Desktop\docker-fullstack> docker compose exec db bash
time="2026-02-09T15:51:29+01:00" level=warning msg="C:\\\\Users\\\\deividsonic2\\\\Desktop\\\\docker-fullstack\\\\docker-compose.yml: the attribute `version` is obsolete, it will be ignored, please remove it to avoid potential confusion"
bash-5.1# mysql -u laravel -p
```

```
Enter password:
Welcome to the MySQL monitor. Commands end with ; or \g.
Your MySQL connection id is 11
Server version: 8.4.8 MySQL Community Server - GPL
```

```
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```

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```

Al ejecutar la parte de laravel podemos ver que se puede ver claramente que esta bien conectado al salirnos esta ventana en el navegador.



Este error me salia al intentar ejecutar la parte de Angular.

AH00558: apache2: Could not reliably determine the server's fully qualified domain name, using 172.18.0.4. Set the 'ServerName' directive globally to suppress this message
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'apache2 -D FOREGROUND'

Archivo docker-compose.yml

```
1      version: "3.9"
2
3      services:
4          frontend:
5              image: node:20
6              working_dir: /app
7              volumes:
8                  - ./frontend:/app
9              command: sh -c "npm install && npm run start -- --host 0.0.0.0 --port 4200"
10             ports:
11                 - "4200:4200"
12             networks:
13                 - fullstack
14
15         backend:
16             image: php:8.3-apache
17             working_dir: /var/www/html
18             volumes:
19                 - ./backend:/var/www/html
20             ports:
21                 - "8000:80"
22             depends_on:
23                 - db
24             environment:
25                 - DB_CONNECTION=mysql
26                 - DB_HOST=db
27                 - DB_PORT=3306
28                 - DB_DATABASE=laravel
29                 - DB_USERNAME=laravel
30                 - DB_PASSWORD=secret
31             networks:
32                 - fullstack
33
34         db:
35             image: mysql:8
36             environment:
37                 - MYSQL_ROOT_PASSWORD=root
38                 - MYSQL_DATABASE=laravel
39                 - MYSQL_USER=laravel
40                 - MYSQL_PASSWORD=secret
41             volumes:
42                 - db_data:/var/lib/mysql
43             ports:
44                 - "3307:3306"
45             networks:
46                 - fullstack
47
48     networks:
49         fullstack:
50
51     volumes:
52         db_data:
```