



**Universidad Galileo / TELUS Digital
Técnico en Desarrollo Fullstack**

Tarea:

**Contenerización de Aplicación Node.js y Despliegue
Básico**

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Curso NodeJS avanzado

ENLACE DE REPOSITORIO:

<https://github.com/L21gt/apisNodeJs-ContenerizacionAppNodeJSDespliegue>

CAPTURAS DE PANTALLA

Construcción y Ejecución

```
PS C:\Users\usuario\Desktop\Telus\Galileo FullStack\Cursos grabacion\Semestre 4\NodeJSAvanzados\Tareas\Contenerizacion de aplicacion nodejs y despliegue basico\tarea4DockerContenerizacionDespliegue> docker comp
ose up --build
[*] Building 107.7s (13/13) FINISHED
  - [internal] load local bake definitions
  -> reading from stdin 912B
  -> [internal] load build definition from Dockerfile
  -> transferring dockerfile: 2.04KB
  -> [internal] load metadata for docker.io/library/node:lts-alpine
  -> [auth] library/node:pull token for registry-1.docker.io
  -> [internal] load .dockerignore
  -> transferring context: 603B
  -> [1/S] FROM docker.io/library/node:lts-alpine@sha256:2867d50cf9d8bb50059a0ff528741f11a94d985c732e60e19e8e75c7239c43
  -> > resolve docker.io/library/node:lts-alpine@sha256:2867d50cf9d8bb50059a0ff528741f11a94d985c732e60e19e8e75c7239c43
  -> [internal] load build context
  -> transferring context: 7.42kB
  -> CACHEI [2/5] WORKDIR /app
  -> CACHEI [3/5] COPY package*.json .
  -> CACHEI [4/5] RUN npm install --omit=dev
  -> [5/5] COPY .
  -> exporting to image
  -> exporting layers
  -> exporting manifest sha256:04af540080722e3e0aafb6cc3ae2eb510c8fffcc4d523c26d4dfdf93d8af1eb7
  -> exporting config sha256:ca11cb520984fc23672df19a8b4fd4f857d22fc03167289e172b2015d70bc
  -> exporting attestation manifest sha256:1550b0f9933beacd221640e5c34c6c77fe5960c6cda02aed74ab2e0fe04ef
  -> exporting manifest list sha256:063f8ce1ccc6c0959debe04d1a1f963f8430743ea1796e936fc390f420c8c542fc
  -> exporting name to docker.io/library/tarea4dockercontenerizaciondespliegue-api:latest
  -> unpacking to docker.io/library/tarea4dockercontenerizaciondespliegue-api:latest
  -> resolving provenance for metadata file
[*] Running 4/4
✓ tarea4dockercontenerizaciondespliegue-api          Built
✓ Network tarea4dockercontenerizaciondespliegue_default Created
✓ Container task_api_db_tarea4                      Created
✓ Container task_api_app_tarea4                     Created
Attaching to task_api_app_tarea4, task_api_db_tarea4
task_api_db_tarea4
task_api_db_tarea4      PostgreSQL Database directory appears to contain a database; skipping initialization
task_api_db_tarea4
task_api_db_tarea4      2025-11-18 03:30:50.919 UTC [1] LOG:  starting PostgreSQL 13.22 on x86_64-pc-linux-musl, compiled by gcc (Alpine 14.2.0) 14.2.0, 64-bit
task_api_db_tarea4      2025-11-18 03:30:50.919 UTC [1] LOG:  listening on IPv4 address "0.0.0.0", port 5432
task_api_db_tarea4      2025-11-18 03:30:50.919 UTC [1] LOG:  listening on IPv6 address "::", port 5432
task_api_db_tarea4      2025-11-18 03:30:52.272 UTC [1] LOG:  listening on Unix socket "/var/run/postgresql/.s.PGSQL.5432"
task_api_db_tarea4      2025-11-18 03:30:53.418 UTC [28] LOG:  database system shutdown was interrupted; last known up at 2025-11-18 03:19:25 UTC
task_api_app_tarea4    [dotenv@17.2.2] injecting env (0) from .env -- tip: ⚡ observe env with Radar: https://dotenvx.com/radar
task_api_app_tarea4    [dotenv@17.2.2] injecting env (0) from .env -- tip: ⚡ running with Dotenvx: https://dotenvx.com
task_api_app_tarea4    ➔ Servidor corriendo el puerto http://localhost:4000
task_api_db_tarea4
task_api_db_tarea4      2025-11-18 03:31:23.555 UTC [28] LOG:  database system was not properly shut down; automatic recovery in progress
task_api_db_tarea4      2025-11-18 03:31:23.879 UTC [28] LOG:  redo starts at 0/1500950
task_api_db_tarea4      2025-11-18 03:31:23.879 UTC [28] LOG:  invalid record length at 0/1500988: wanted 24, got 0
task_api_db_tarea4      2025-11-18 03:31:23.879 UTC [28] LOG:  redo done at 0/1500950
task_api_db_tarea4      2025-11-18 03:31:26.229 UTC [1] LOG:  database system is ready to accept connections
|
```

View in Docker Desktop View Config Enable Watch

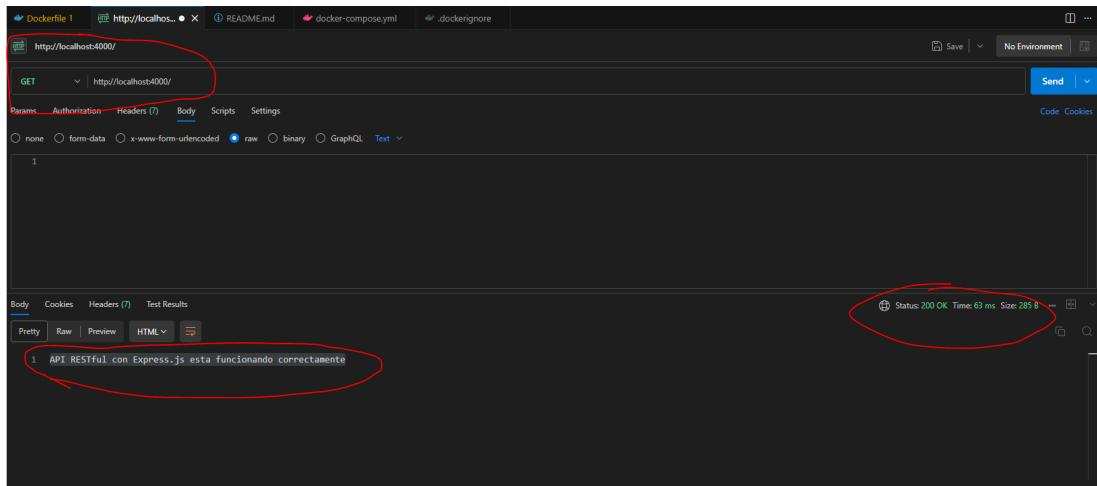
Ln 69, Col 32 Spaces: 2 UTF-8 CRLF Markdown Go Live

Verificación de Contenedores

```
PS C:\Users\usuario\Desktop\Telus\Galileo FullStack\Cursos grabacion\Semestre 4\NodeJSAvanzados\Tareas\Contenerizacion de aplicacion nodejs y despliegue basico\tarea4DockerContenerizacionDespliegue> docker ps
CONTAINER ID IMAGE COMMAND CREATED STATUS PORTS NAMES
bbb00145fb12 tarea4dockercontenerizaciondespliegue-api "docker-entrypoint.s..." 9 minutes ago Up 9 minutes 0.0.0.0:4000->4000/tcp, ::1:4000->4000/tcp task_api_app_tarea4
02cc2cbf300 postgres:13-alpine "docker-entrypoint.s..." 10 minutes ago Up 9 minutes 0.0.0.0:5433->5432/tcp, ::1:5433->5432/tcp task_api_db_tarea4
60687031lab0 postgres:13-alpine "docker-entrypoint.s..." 2 months ago Up 6 hours 0.0.0.0:5432->5432/tcp, ::1:5432->5432/tcp task_api_db
```

PS C:\Users\usuario\Desktop\Telus\Galileo FullStack\Cursos grabacion\Semestre 4\NodeJSAvanzados\Tareas\Contenerizacion de aplicacion nodejs y despliegue basico\tarea4DockerContenerizacionDespliegue>

Prueba de la API



Despliegue en Play with Docker

Pruebas en Play with Docker

Contenedores desplegados y corriendo

```
[node1] (local) root@192.168.0.34 ~/apisNodeJs-ContenerizacionAppNodeJSDespliegue
$ docker ps
CONTAINER ID        IMAGE               COMMAND             CREATED            STATUS              PORTS               NAMES
9dade63b5375e      apisnodejs-contenerizacionappnodejdsdespliegue-api   "docker-entrypoint.s..."   About a minute ago   Up About a minute   0.0.0.0:4000->4000/tcp   task_api_app_tarea
a4200bbb5db7       postgres:13-alpine          "docker-entrypoint.s..."   About a minute ago   Up About a minute   0.0.0.0:5433->5432/tcp   task_api_db_tarea
[node1] (local) root@192.168.0.34 ~/apisNodeJs-ContenerizacionAppNodeJSDespliegue
```

Aplicación desplegada y verificada en el navegador

