

Examen Final de Calidad de Software

Manual de Configuración y Despliegue

Requisitos

- Docker
- Docker compose
- NodeJs > 21.x
- npm > 9.x

Despliegue del sistema:

Clonar el repositorio: <https://github.com/Carlos-Felix/ExamenFinalCalidadDeSoftware.git>

Instalar las librerías de NodeJS en cada uno de los microservicios:

- Tickets:
Dentro de la carpeta **ticket** ejecutar:

sudo npm i

```
carlosfelix@ubuntu-desktop:~/Documentos/microservices-with-expressjs/ticket$ sudo npm i
npm WARN old lockfile
npm WARN old lockfile The package-lock.json file was created with an old version of npm,
npm WARN old lockfile so supplemental metadata must be fetched from the registry.
npm WARN old lockfile This is a one-time fix-up, please be patient...
npm WARN deprecated @babel/plugin-proposal-private-methods@7.12.1: This proposal has been merged
m-private-methods instead.
npm WARN deprecated @babel/plugin-proposal-unicode-property-regex@7.12.1: This proposal has been
ransform-unicode-property-regex instead.
npm WARN deprecated @babel/plugin-proposal-optional-catch-binding@7.12.1: This proposal has been
ransform-optional-catch-binding instead.
npm WARN deprecated @babel/plugin-proposal-numeric-separator@7.12.7: This proposal has been merge
orm-numeric-separator instead.
npm WARN deprecated @babel/plugin-proposal-logical-assignment-operators@7.12.1: This proposal has
ugin-transform-logical-assignment-operators instead.
npm WARN deprecated @babel/plugin-proposal-nullish-coalescing-operator@7.12.1: This proposal has
gln-transform-nullish-coalescing-operator instead.
npm WARN deprecated @babel/plugin-proposal-dynamic-import@7.12.1: This proposal has been merged t
-dynamic-import instead.
npm WARN deprecated @babel/plugin-proposal-export-namespace-from@7.12.1: This proposal has been m
```

- Auth:
Dentro de la carpeta **auth** ejecutar:

sudo npm i

```
carlosfelix@ubuntu-desktop:~/Documentos/microservices-with-expressjs/auth$ sudo npm i
[sudo] contraseña para carlosfelix:
npm WARN old lockfile
npm WARN old lockfile The package-lock.json file was created with an old version of npm,
npm WARN old lockfile so supplemental metadata must be fetched from the registry.
npm WARN old lockfile This is a one-time fix-up, please be patient...
npm WARN deprecated source-map-resolve@0.5.3: See https://github.com/lydell/source-map-resolve#depr
npm WARN deprecated formidable@1.2.2: Please upgrade to latest, formidable@v2 or formidable@v3! Che
npm WARN deprecated babel-eslint@10.1.0: babel-eslint is now @babel/eslint-parser. This package wil
npm WARN deprecated @babel/plugin-proposal-object-rest-spread@7.12.1: This proposal has been merged
form-object-rest-spread instead.
npm WARN deprecated @babel/plugin-proposal-json-strings@7.12.1: This proposal has been merged to th
son-strings instead.
npm WARN deprecated @babel/plugin-proposal-dynamic-import@7.12.1: This proposal has been merged to
dynamic-import instead.
```

En la carpeta Deployments ejecutar:

sudo make buildUp

```
carlosfelix@ubuntu-desktop:~/Documentos/microservices-with-expressjs/deployment$ sudo make buildUp

> auth-service@1.0.0 build
> babel src/ -d dist

Successfully compiled 23 files with Babel (240ms).

> ticket-service@1.0.0 build
> babel src/ -d dist

Successfully compiled 16 files with Babel (218ms).
docker-compose -p ticket-management -f docker-compose.yaml build
[+] Building 41.2s (35/35) FINISHED
=> [ticket-management_service-ticket internal] load .dockerignore
=> => transferring context: 2B
=> [ticket-management_service-auth internal] load .dockerignore
=> => transferring context: 2B
=> [ticket-management_service-ticket internal] load build definition from Dockerfile
=> => transferring dockerfile: 209B
=> [ticket-management_gateway internal] load build definition from Dockerfile
=> => transferring dockerfile: 101B
=> [ticket-management_gateway internal] load .dockerignore
=> => transferring context: 2B
=> [ticket-management_service-auth internal] load build definition from Dockerfile
=> => transferring dockerfile: 209B
```

Esto levantará los microservicios del sistema:

```
carlosfelix@ubuntu-desktop:~/Documentos/microservices-with-expressjs/deployment$ sudo docker ps
```

CONTAINER ID	IMAGE	COMMAND	CREATED	STATUS	PORTS	NAMES
6a3eace6b1c5	ticket-management_service-ticket	"docker-entrypoint.s..."	About a minute ago	Up About a minute	3000/tcp	service-ticket
2696f48f2e77	ticket-management_gateway	"/docker-entrypoint.s..."	About a minute ago	Up About a minute	80/tcp, 0.0.0.0:80->8080/tcp, :::80->8080/tcp	gateway
da935571c956	ticket-management_db-service	"docker-entrypoint.s..."	About a minute ago	Up About a minute	5432/tcp	db
99658c6c2dc1	ticket-management_service-auth	"docker-entrypoint.s..."	About a minute ago	Up About a minute	3000/tcp	service-auth

Test:

Para correr los test en cada uno de los microservicios:

- Tickets:
Dentro de la carpeta **ticket** ejecutar:

npm run test

```

carlosfeli@ubuntu-desktop:~/Documentos/microservices-with-expressjs/ticket$ npm run test

> ticket-service@1.0.0 test
> jest

(node:42710) [DEP0170] DeprecationWarning: The URL sqlite::memory: is invalid. Future versions of Node.js will throw an error.
(Use 'node --trace-deprecation ...' to show where the warning was created)
PASS tests/services/ticketService.test.js
  ● Console

    console.log
      Connection has been established and models synced successfully.
    at initializeDatabase (src/db/index.js:9:13)

(node:42709) [DEP0170] DeprecationWarning: The URL sqlite::memory: is invalid. Future versions of Node.js will throw an error.
(Use 'node --trace-deprecation ...' to show where the warning was created)
PASS tests/routes.test.js
  ● Console

    console.log
      Connection has been established and models synced successfully.
    at initializeDatabase (src/db/index.js:9:13)

Test Suites: 2 passed, 2 total
Tests: 12 passed, 12 total
Snapshots: 0 total
Time: 0.798 s
Ran all test suites.

```

- Auth:
Dentro de la carpeta **auth** ejecutar:

`npm run test`

```

carlosfeli@ubuntu-desktop:~/Documentos/microservices-with-expressjs/auth$ npm run test

> auth-service@1.0.0 test
> jest

(node:42136) [DEP0170] DeprecationWarning: The URL sqlite::memory: is invalid. Future versions of Node.js will throw an error.
(Use 'node --trace-deprecation ...' to show where the warning was created)
(node:42135) [DEP0170] DeprecationWarning: The URL sqlite::memory: is invalid. Future versions of Node.js will throw an error.
(Use 'node --trace-deprecation ...' to show where the warning was created)
PASS tests/services/userService.test.js
  ● Console

    console.log
      Connection has been established and models synced successfully.
    at initializeDatabase (src/db/index.js:9:13)

PASS tests/services/authService.test.js
  ● Console

    console.log
      Connection has been established and models synced successfully.
    at initializeDatabase (src/db/index.js:9:13)

(node:42134) [DEP0170] DeprecationWarning: The URL sqlite::memory: is invalid. Future versions of Node.js will throw an error.
(Use 'node --trace-deprecation ...' to show where the warning was created)
PASS tests/routes.test.js
  ● Console

    console.log
      Connection has been established and models synced successfully.
    at initializeDatabase (src/db/index.js:9:13)

Test Suites: 3 passed, 3 total
Tests: 15 passed, 15 total
Snapshots: 0 total
Time: 0.859 s
Ran all test suites.

```