

## Configuraciones comunes

Para probar las ejecuciones, se diseñaron los siguientes escenarios de prueba:

### Capa Repositorio

| Escenario de prueba         | Descripción   |
|-----------------------------|---|
| test_create_blacklist       | Verifica la creación de una lista negra con los campos correctos y las operaciones de base de datos.  |
| test_get_by_email_exists    | Verifica la obtención de una lista negra por correo electrónico cuando existe en la base de datos.    |
| test_get_by_email_not_found | Verifica la obtención de una lista negra por correo electrónico cuando no existe en la base de datos. |

### Capa Servicio

| Escenario de prueba                   | Descripción   |
|---------------------------------------|---|
| test_create_blacklist_success         | Verifica la creación exitosa de una lista negra con los campos correctos.                             |
| test_create_blacklist_without_ip      | Verifica la creación de una lista negra sin dirección IP.   |
| test_get_blacklist_by_email_found     | Verifica la obtención de una lista negra por correo electrónico cuando existe en la base de datos.    |
| test_get_blacklist_by_email_not_found | Verifica la obtención de una lista negra por correo electrónico cuando no existe en la base de datos. |

### Capa Controlador

| Escenario de prueba                 | Descripción   |
|-------------------------------------|---|
| test_create_blacklist_success       | Verifica la creación exitosa de una lista negra a través del controlador.                   |
| test_validate_email_blacklisted     | Verifica la validación de un correo electrónico en la lista negra cuando está bloqueado.    |
| test_validate_email_not_blacklisted | Verifica la validación de un correo electrónico en la lista negra cuando no está bloqueado. |

Entrega 2

Adicional a esto, con el objetivo de simular fallos, se configuro una variable de entorno que retornara un error de aserción si esta tiene el valor de verdadero.

Finalmente, se configuro el buildspec para que publicara una imagen de Docker en el repositorio de ECR.

Pipeline exitoso

En la ejecución de un pipeline exitoso, lo primero que se observa es el resumen de la ejecución. En este se ve que la ejecución tuvo una duración aproximada de 1min y 13 seg

Build status

Status

✔ Succeeded

Initiator

GitHub-Hookshot/927dbf4

Build ARN

arn:aws:codebuild:us-east-1:501257812093:build/Devops-Mail-API:beab5dbf-6d32-4d53-bd85-5abd834d3b7b

Resolved source version

d42cc5aed133d9afca3f69bd4148da5ef4ec6d0a

Start time

Apr 23, 2025 5:55 PM (UTC-5:00)

End time

Apr 23, 2025 5:56 PM (UTC-5:00)

Build number

8

Al revisar el detalle de las fases encontramos cuanto tiempo toma cada fase:

| Build logs       | Phase details | Reports | Environment variables | Build details                   | Resource utilization            |
|------------------|---------------|---------|-----------------------|---------------------------------|---------------------------------|
| Name             | Status        | Context | Duration              | Start time                      | End time                        |
| SUBMITTED        | ✔ Succeeded   | -       | <1 sec                | Apr 23, 2025 5:55 PM (UTC-5:00) | Apr 23, 2025 5:55 PM (UTC-5:00) |
| QUEUED           | ✔ Succeeded   | -       | <1 sec                | Apr 23, 2025 5:55 PM (UTC-5:00) | Apr 23, 2025 5:55 PM (UTC-5:00) |
| PROVISIONING     | ✔ Succeeded   | -       | 5 secs                | Apr 23, 2025 5:55 PM (UTC-5:00) | Apr 23, 2025 5:55 PM (UTC-5:00) |
| DOWNLOAD_SOURCE  | ✔ Succeeded   | -       | 3 secs                | Apr 23, 2025 5:55 PM (UTC-5:00) | Apr 23, 2025 5:55 PM (UTC-5:00) |
| INSTALL          | ✔ Succeeded   | -       | 16 secs               | Apr 23, 2025 5:55 PM (UTC-5:00) | Apr 23, 2025 5:55 PM (UTC-5:00) |
| PRE_BUILD        | ✔ Succeeded   | -       | 14 secs               | Apr 23, 2025 5:55 PM (UTC-5:00) | Apr 23, 2025 5:56 PM (UTC-5:00) |
| BUILD            | ✔ Succeeded   | -       | 22 secs               | Apr 23, 2025 5:56 PM (UTC-5:00) | Apr 23, 2025 5:56 PM (UTC-5:00) |
| POST_BUILD       | ✔ Succeeded   | -       | 8 secs                | Apr 23, 2025 5:56 PM (UTC-5:00) | Apr 23, 2025 5:56 PM (UTC-5:00) |
| UPLOAD_ARTIFACTS | ✔ Succeeded   | -       | <1 sec                | Apr 23, 2025 5:56 PM (UTC-5:00) | Apr 23, 2025 5:56 PM (UTC-5:00) |
| FINALIZING       | ✔ Succeeded   | -       | <1 sec                | Apr 23, 2025 5:56 PM (UTC-5:00) | Apr 23, 2025 5:56 PM (UTC-5:00) |
| COMPLETED        | ✔ Succeeded   | -       | -                     | Apr 23, 2025 5:56 PM (UTC-5:00) | -                               |

Dentro de los logs del build, podemos ver como se reporta que todos los test pasaron:

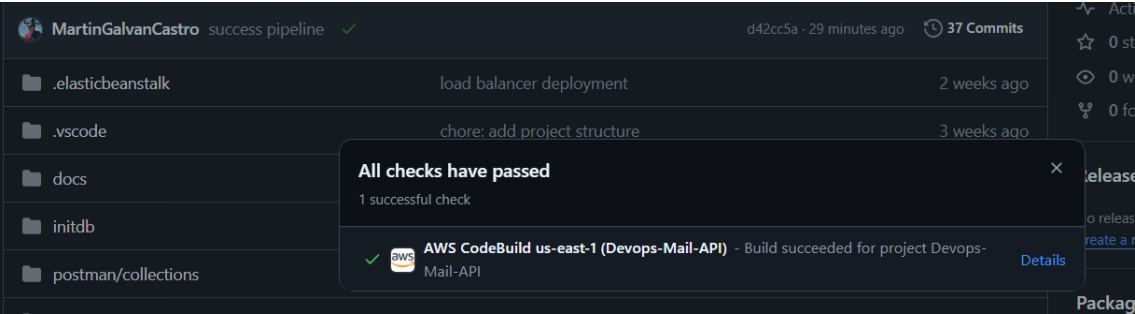
```
===== test session starts =====
platform linux -- Python 3.12.8, pytest-8.3.5, pluggy-1.5.0 -- /codebuild/output/src788959343/src/github.com/MartinGalvanCastro/devops-mail-api/.venv/bin/python
cachedir: .pytest_cache
rootdir: /codebuild/output/src788959343/src/github.com/MartinGalvanCastro/devops-mail-api
configfile: pytest.ini
testpaths: tests
plugins: mock-3.14.0, cov-6.0.0, asyncio-0.26.0, anyio-4.9.0
asyncio: mode=Mode.STRICT, asyncio_default_fixture_loop_scope=function, asyncio_default_test_loop_scope=function
collecting ... collected 10 items

tests/application/services/blacklist_service_test.py::test_create_blacklist_success PASSED [ 10%]
tests/application/services/blacklist_service_test.py::test_create_blacklist_without_ip PASSED [ 20%]
tests/application/services/blacklist_service_test.py::test_get_blacklist_by_email_found PASSED [ 30%]
tests/application/services/blacklist_service_test.py::test_get_blacklist_by_email_not_found PASSED [ 40%]
tests/infrastructure/adapters/input/api/blacklist_controller_test.py::test_create_blacklist_success PASSED [ 50%]
tests/infrastructure/adapters/input/api/blacklist_controller_test.py::test_validate_email_blacklisted PASSED [ 60%]
tests/infrastructure/adapters/input/api/blacklist_controller_test.py::test_validate_email_not_blacklisted PASSED [ 70%]
tests/infrastructure/adapters/output/repositories/blacklist_repo_test.py::test_create_blacklist PASSED [ 80%]
tests/infrastructure/adapters/output/repositories/blacklist_repo_test.py::test_get_by_email_exists PASSED [ 90%]
tests/infrastructure/adapters/output/repositories/blacklist_repo_test.py::test_get_by_email_not_found PASSED [100%]

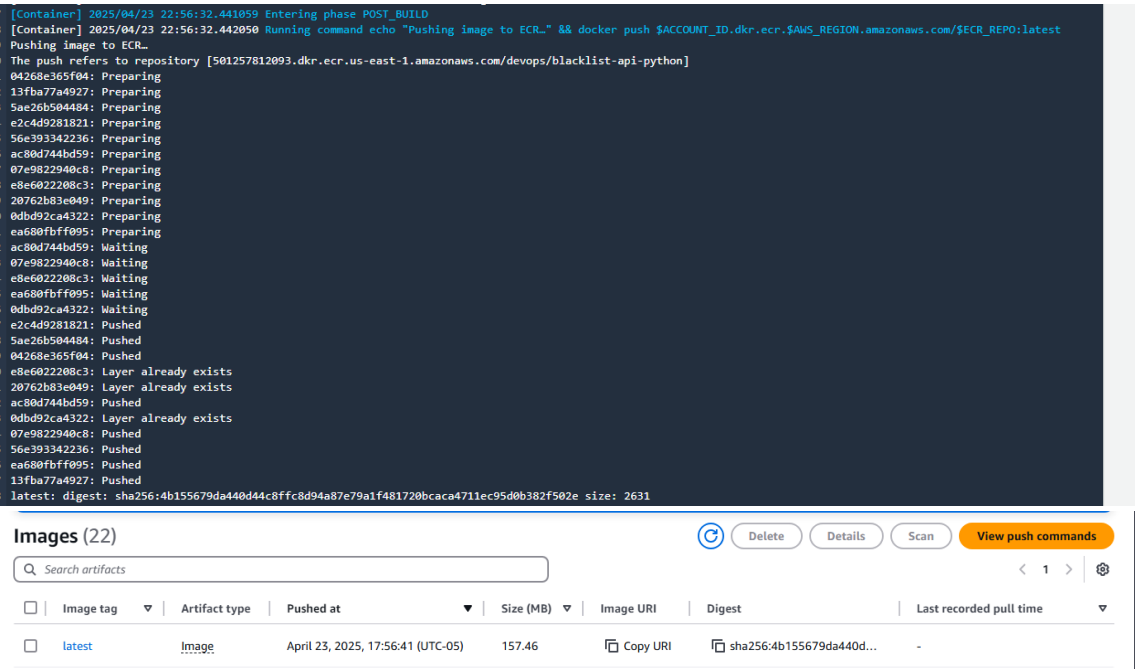
===== 10 passed in 2.21s =====
```

Entrega 2

Al revisar en Github, podemos ver que el repositorio cuenta con un nuevo check que hace referencia al CodeBuild:



Y al revisar ECR y los logs de la build, vemos que se ha publicado una nueva imagen de Docker:



Pipeline fallido

En la ejecución de un pipeline fallido, vemos que esta toma menos tiempo:

| Build status                    |                                 |  |  |
|---------------------------------|---------------------------------|--|--|
| Status                          | Initiator                       | Build ARN  | Resolved source version                  |
| Failed                          | GitHub-Hookshot/927dbf4         | arn:aws:codebuild:us-east-1:501257812-093:build/Devops-Mail-API:1413e63f-6220-45f9-8dad-be971975b4ec | 287ced2945d68fb44e3c214ccd416a3a84cb7c67 |
| Start time                      | End time                        | Build number   |  |
| Apr 23, 2025 6:29 PM (UTC-5:00) | Apr 23, 2025 6:30 PM (UTC-5:00) | 9  |  |

Al revisar las fases, identificamos un fallo en PRE\_BUILD. Veamos el error presentado:

Entrega 2

| Name            | Status      | Context   | Duration | Start time                      | End time                        |
|-----------------|-------------|---|----------|---------------------------------|---------------------------------|
| SUBMITTED       | ✔ Succeeded | -   | <1 sec   | Apr 23, 2025 6:29 PM (UTC-5:00) | Apr 23, 2025 6:29 PM (UTC-5:00) |
| QUEUED          | ✔ Succeeded | -   | <1 sec   | Apr 23, 2025 6:29 PM (UTC-5:00) | Apr 23, 2025 6:30 PM (UTC-5:00) |
| PROVISIONING    | ✔ Succeeded | -   | 3 secs   | Apr 23, 2025 6:30 PM (UTC-5:00) | Apr 23, 2025 6:30 PM (UTC-5:00) |
| DOWNLOAD_SOURCE | ✔ Succeeded | -   | 3 secs   | Apr 23, 2025 6:30 PM (UTC-5:00) | Apr 23, 2025 6:30 PM (UTC-5:00) |
| INSTALL         | ✔ Succeeded | -   | 16 secs  | Apr 23, 2025 6:30 PM (UTC-5:00) | Apr 23, 2025 6:30 PM (UTC-5:00) |
| PRE_BUILD       | ❌ Failed    | COMMAND_EXECUTION_ERROR: Error while executing command: echo "Running tests..." && uv run manage.py test-with-failures. Reason: exit status 1 | 5 secs   | Apr 23, 2025 6:30 PM (UTC-5:00) | Apr 23, 2025 6:30 PM (UTC-5:00) |
| FINALIZING      | ✔ Succeeded | -   | <1 sec   | Apr 23, 2025 6:30 PM (UTC-5:00) | Apr 23, 2025 6:30 PM (UTC-5:00) |
| COMPLETED       | ✔ Succeeded | -   | -        | Apr 23, 2025 6:30 PM (UTC-5:00) | -                               |

Este error corresponde al simulado por nosotros en las pruebas unitarias, al verlas podemos ver que todas nuestras pruebas presentan error de aserción:

```
===== short test summary info =====
ERROR tests/application/services/blacklist_service_test.py::test_create_blacklist_success - AssertionError: Simulated failure triggered: SIMULATE_FAILURES is True
assert not True
ERROR tests/application/services/blacklist_service_test.py::test_create_blacklist_without_ip - AssertionError: Simulated failure triggered: SIMULATE_FAILURES is True
assert not True
ERROR tests/application/services/blacklist_service_test.py::test_get_blacklist_by_email_found - AssertionError: Simulated failure triggered: SIMULATE_FAILURES is True
assert not True
ERROR tests/application/services/blacklist_service_test.py::test_get_blacklist_by_email_not_found - AssertionError: Simulated failure triggered: SIMULATE_FAILURES is True
assert not True
ERROR tests/infrastructure/adapters/input/api/blacklist_controller_test.py::test_create_blacklist_success - AssertionError: Simulated failure triggered:
SIMULATE_FAILURES is True
assert not True
ERROR tests/infrastructure/adapters/input/api/blacklist_controller_test.py::test_validate_email_blacklisted - AssertionError: Simulated failure triggered:
SIMULATE_FAILURES is True
assert not True
ERROR tests/infrastructure/adapters/input/api/blacklist_controller_test.py::test_validate_email_not_blacklisted - AssertionError: Simulated failure triggered:
SIMULATE_FAILURES is True
assert not True
ERROR tests/infrastructure/adapters/output/repositories/blacklist_repo_test.py::test_create_blacklist - AssertionError: Simulated failure triggered: SIMULATE_FAILURES
is True
assert not True
ERROR tests/infrastructure/adapters/output/repositories/blacklist_repo_test.py::test_get_by_email_exists - AssertionError: Simulated failure triggered:
SIMULATE_FAILURES is True
assert not True
ERROR tests/infrastructure/adapters/output/repositories/blacklist_repo_test.py::test_get_by_email_not_found - AssertionError: Simulated failure triggered:
SIMULATE_FAILURES is True
assert not True
```

Como vemos en las fases ejecutadas, no se ejecutó la fase de BUILD y POST\_BUILD, por lo que no se generó una imagen de Docker ni se hizo push de esta a ECR. Validamos en ECR y la imagen no se encuentra. La ultima disponible

Entrega 2

es la que tiene el mismo SHA de la del pipeline exitoso

Images (22)

Search artifacts

⌂

Delete

Details

Scan

View push commands

< 1 >

⚙

| <input type="checkbox"/> | Image tag | Artifact type | Pushed at                         | Size (MB) | Image URI | Digest                    | Last recorded pull time           |
|--------------------------|-----------|---------------|-----------------------------------|-----------|-----------|---------------------------|-----------------------------------|
| <input type="checkbox"/> | latest    | Image         | April 23, 2025, 17:56:41 (UTC-05) | 157.46    | Copy URI  | sha256:4b155679da440d...  | -                                 |
| <input type="checkbox"/> | -         | Image         | April 22, 2025, 22:46:43 (UTC-05) | 157.43    | Copy URI  | sha256:fa267adabec53f5... | -                                 |
| <input type="checkbox"/> | -         | Image         | April 06, 2025, 18:17:03 (UTC-05) | 153.05    | Copy URI  | sha256:4c844f5222fb388... | April 06, 2025, 18:18:41 (UTC-05) |
| <input type="checkbox"/> | -         | Image         | April 06, 2025, 17:49:23 (UTC-05) | 153.05    | Copy URI  | sha256:1c689285d6c6cc2... | April 06, 2025, 17:52:02 (UTC-05) |
| <input type="checkbox"/> | -         | Image         | April 06, 2025, 17:34:58 (UTC-05) | 153.05    | Copy URI  | sha256:814d771a67188a...  | April 06, 2025, 17:36:47 (UTC-05) |
| <input type="checkbox"/> | -         | Image         | April 06, 2025, 17:13:59 (UTC-05) | 153.05    | Copy URI  | sha256:b3bbf8b5790c49f... | April 06, 2025, 17:14:34 (UTC-05) |

Al revisar en Github, vemos que el check aparece fallido:

MartinGalvanCastro

failed pipeline

287ced2 · 8 minutes ago

🕒 38 Commits

|                     |                               |             |
|---------------------|-------------------------------|-------------|
| .elasticbeanstalk   | load balancer deployment      | 2 weeks ago |
| .vscode             | chore: add project structure  | 3 weeks ago |
| docs                | added postmand doc link       | 2 weeks ago |
| initdb              | eb deployment ready           | 3 weeks ago |
| postman/collections | added postmand doc link       | 2 weeks ago |
| src                 | added unit test for pipelines | 2 weeks ago |