

# Ejercicio 1:

```
vagrant@oom2425-docker: ~  
vagrant@oom2425-docker:~$ docker image ls  
REPOSITORY TAG IMAGE ID CREATED SIZE  
oom2425-redis latest 0bb00b3a45d7 38 hours ago 138MB  
vagrant@oom2425-docker:~$  
vagrant@oom2425-docker:~$ docker history oom2425-redis  
IMAGE CREATED CREATED BY SIZE COMMENT  
0bb00b3a45d7 38 hours ago ENTRYPOINT ["redis-server" "--protected-mode... 0B buildkit.dockerfile.v0  
<missing> 38 hours ago EXPOSE map[6379/tcp:{}] 0B buildkit.dockerfile.v0  
<missing> 38 hours ago USER redis 0B buildkit.dockerfile.v0  
<missing> 38 hours ago RUN /bin/sh -c chown redis:redis /data # bui... 0B buildkit.dockerfile.v0  
<missing> 38 hours ago WORKDIR /data 0B buildkit.dockerfile.v0  
<missing> 38 hours ago ENV REDIS_DATA=/data 0B buildkit.dockerfile.v0  
<missing> 38 hours ago RUN /bin/sh -c apt-get update && mkdir r... 59.3MB buildkit.dockerfile.v0  
<missing> 39 hours ago ADD https://download.redis.io/releases/redis... 3.53MB buildkit.dockerfile.v0  
<missing> 39 hours ago WORKDIR /tmp 0B buildkit.dockerfile.v0  
<missing> 2 weeks ago # debian.sh --arch 'amd64' out/ 'bookworm' '...' 74.8MB debuerreotype 0.15  
vagrant@oom2425-docker:~$
```

```
vagrant@oom2425-docker: ~  
vagrant@oom2425-docker:~$ docker run --name redis-client --entrypoint redis-cli oom2425-redis -h 172.17.0.2 ping  
PONG  
vagrant@oom2425-docker:~$  
vagrant@oom2425-docker:~$ docker ps -a  
CONTAINER ID IMAGE COMMAND CREATED STATUS PORTS NAMES  
ec7050c7c114 oom2425-redis "redis-cli -h 172.17..." 10 seconds ago Exited (0) 9 seconds ago 6379/tcp redis-client  
0375c01b8de3 oom2425-redis "redis-server --prot..." 31 minutes ago Up 31 minutes 6379/tcp redis-server  
vagrant@oom2425-docker:~$
```

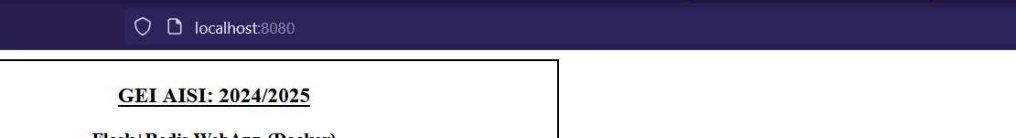
# Ejercicio 2:

```
vagrant@oom2425-docker: ~  
vagrant@oom2425-docker:~$ docker image ls  
REPOSITORY TAG IMAGE ID CREATED SIZE  
oom2425-redis-multi latest 35112ff300d9 4 hours ago 39.4MB  
oom2425-redis latest 0bb00b3a45d7 4 days ago 138MB  
vagrant@oom2425-docker:~$  
vagrant@oom2425-docker:~$ docker history oom2425-redis-multi  
IMAGE CREATED CREATED BY SIZE COMMENT  
35112ff300d9 4 hours ago ENTRYPOINT ["redis-server" "--protected-mode... 0B buildkit.dockerfile.v0  
<missing> 4 hours ago COPY /usr/local/bin/redis-server /usr/local/bin... 16.6MB buildkit.dockerfile.v0  
<missing> 4 hours ago COPY /usr/local/bin/redis-cli /usr/local/bin... 7.22MB buildkit.dockerfile.v0  
<missing> 4 hours ago EXPOSE map[6379/tcp:{}] 0B buildkit.dockerfile.v0  
<missing> 4 hours ago USER redis 0B buildkit.dockerfile.v0  
<missing> 4 hours ago RUN /bin/sh -c addgroup -S redis && adduser... 3.06kB buildkit.dockerfile.v0  
<missing> 4 hours ago WORKDIR /data 0B buildkit.dockerfile.v0  
<missing> 4 hours ago ENV REDIS_DATA=/data 0B buildkit.dockerfile.v0  
<missing> 9 days ago RUN /bin/sh -c ALPINE_GLIBC_BASE_URL="https:... 7.75MB buildkit.dockerfile.v0  
<missing> 9 days ago ENV LANG=C.UTF-8 0B buildkit.dockerfile.v0  
<missing> 10 days ago CMD ["/bin/sh"] 0B buildkit.dockerfile.v0  
<missing> 10 days ago ADD alpine-minirootfs-3.20.6-x86_64.tar.gz /... 7.8MB buildkit.dockerfile.v0  
vagrant@oom2425-docker:~$  
vagrant@oom2425-docker:~$ docker run --rm --name redis-server oom2425-redis-multi  
1:C 24 Feb 2025 16:40:58.546 # WARNING Memory overcommit must be enabled! Without it, a background save or replication may fail under low memory condition.  
Being disabled, it can also cause failures without low memory condition, see https://github.com/jemalloc/jemalloc/issues/1328. To fix this issue add 'vm.ove  
rcommit_memory = 1' to /etc/sysctl.conf and then reboot or run the command 'sysctl vm.overcommit_memory=1' for this to take effect.  
1:C 24 Feb 2025 16:40:58.551 * o000o000o000o Redis is starting o000o000o000o  
1:C 24 Feb 2025 16:40:58.551 * Redis version=7.4.2, bits=64, commit=00000000, modified=0, pid=1, just started  
1:C 24 Feb 2025 16:40:58.551 * Configuration loaded  
1:M 24 Feb 2025 16:40:58.553 * monotonic clock: POSIX clock_gettime  
1:M 24 Feb 2025 16:40:58.554 * Running mode=standalone, port=6379.  
1:M 24 Feb 2025 16:40:58.554 * Server initialized  
1:M 24 Feb 2025 16:40:58.554 * Ready to accept connections tcp
```

### Ejercicio 3:

```
vagrant@oom2425-docker:~$ docker volume create redis-vol
redis-vol
vagrant@oom2425-docker:~$ docker volume ls
DRIVER      VOLUME NAME
local       redis-vol
vagrant@oom2425-docker:~$ docker inspect redis-vol
[
  {
    "CreatedAt": "2025-02-24T16:47:09Z",
    "Driver": "local",
    "Labels": null,
    "Mountpoint": "/var/lib/docker/volumes/redis-vol/_data",
    "Name": "redis-vol",
    "Options": null,
    "Scope": "local"
  }
]
vagrant@oom2425-docker:~$ docker run -d --name redis-server --rm --mount type=volume,source=redis-vol,target=/data oom2425-redis-multi
6b59b1a3994b604de54257c38ea9879cb01a6f9bb73028e8f643b5fcd4d3f4a
vagrant@oom2425-docker:~$ docker run --rm --name redis-client --entrypoint redis-cli oom2425-redis-multi -h 172.17.0.2 incr hits
1
vagrant@oom2425-docker:~$ docker run --rm --name redis-client --entrypoint redis-cli oom2425-redis-multi -h 172.17.0.2 incr hits
2
vagrant@oom2425-docker:~$ docker rm -f redis-server
redis-server
vagrant@oom2425-docker:~$ docker run -d --name redis-server --rm --mount type=volume,source=redis-vol,target=/data oom2425-redis-multi
2664390db1234c755bcac8ef16b70f1c85bb7894154efb3af87bfe4c18883b9f
vagrant@oom2425-docker:~$ docker run --rm --name redis-client --entrypoint redis-cli oom2425-redis-multi -h 172.17.0.2 get hits
2
vagrant@oom2425-docker:~$ docker run --rm --name redis-client --entrypoint redis-cli oom2425-redis-multi -h 172.17.0.2 incr hits
3
vagrant@oom2425-docker:~$ sudo ls -lh /var/lib/docker/volumes/redis-vol/_data
total 4.0K
-rw-r--r-- 1 systemd-network systemd-journal 101 Feb 24 16:49 dump.rdb
vagrant@oom2425-docker:~$
```

## Ejercicio 4:



Curso: GEI-AISI 614G011132425 X AISl - Docker - aisi2425-docker X AISl - Prácticas Docker - aisi2425 X GEI AISI X +

← → ↺ localhost:8080

**GEI AISI: 2024/2025**

**Flask+Redis WebApp (Docker)**

**Página web de Oscar Oliveira Miniño**

**URL: http://localhost:8080/**

**Mon Feb 24 2025 17:59:20 GMT+0100 (hora estándar de Europa central)**

**Redis container: redis-server**

**Redis connection status: PASSED**

**Redis counter: 10**

**Web Server IP: 172.17.0.3 | Client IP: 10.0.2.2**

```
vagrant@oom2425-docker: ~$ docker ps -a
CONTAINER ID   IMAGE          COMMAND                  CREATED        STATUS        PORTS                               NAMES
94f5828357a7   oom2425-web    "flask run"             8 minutes ago Up 8 minutes (healthy) 0.0.0.0:80->5000/tcp, [::]:80->5000/tcp  webapp
5f97eb59f3d0   oom2425-redis-multi "redis-server --prot..." 15 minutes ago Up 15 minutes        6379/tcp  redis-server

vagrant@oom2425-docker:~$ docker logs webapp
* Serving Flask app 'counter.py'
* Debug mode: on
WARNING: This is a development server. Do not use it in a production deployment. Use a production WSGI server instead.
* Running on all addresses (0.0.0.0)
* Running on http://127.0.0.1:5000
* Running on http://172.17.0.3:5000
Press CTRL+C to quit
* Restarting with stat
* Debugger is active!
* Debugger PIN: 169-635-298
127.0.0.1 - - [24/Feb/2025 17:04:49] "GET / HTTP/1.1" 200 -
127.0.0.1 - - [24/Feb/2025 17:05:19] "GET / HTTP/1.1" 200 -
172.17.0.1 - - [24/Feb/2025 17:05:28] "GET / HTTP/1.1" 200 -
127.0.0.1 - - [24/Feb/2025 17:05:49] "GET / HTTP/1.1" 200 -
127.0.0.1 - - [24/Feb/2025 17:06:19] "GET / HTTP/1.1" 200 -
127.0.0.1 - - [24/Feb/2025 17:06:49] "GET / HTTP/1.1" 200 -
127.0.0.1 - - [24/Feb/2025 17:07:19] "GET / HTTP/1.1" 200 -
127.0.0.1 - - [24/Feb/2025 17:07:49] "GET / HTTP/1.1" 200 -
127.0.0.1 - - [24/Feb/2025 17:08:19] "GET / HTTP/1.1" 200 -
10.0.2.2 - - [24/Feb/2025 17:08:45] "GET / HTTP/1.1" 200 -
127.0.0.1 - - [24/Feb/2025 17:08:49] "GET / HTTP/1.1" 200 -
127.0.0.1 - - [24/Feb/2025 17:09:19] "GET / HTTP/1.1" 200 -
127.0.0.1 - - [24/Feb/2025 17:09:49] "GET / HTTP/1.1" 200 -
172.17.0.1 - - [24/Feb/2025 17:10:13] "GET / HTTP/1.1" 200 -
127.0.0.1 - - [24/Feb/2025 17:10:19] "GET / HTTP/1.1" 200 -
127.0.0.1 - - [24/Feb/2025 17:10:50] "GET / HTTP/1.1" 200 -
127.0.0.1 - - [24/Feb/2025 17:11:20] "GET / HTTP/1.1" 200 -
127.0.0.1 - - [24/Feb/2025 17:11:50] "GET / HTTP/1.1" 200 -
127.0.0.1 - - [24/Feb/2025 17:12:20] "GET / HTTP/1.1" 200 -
127.0.0.1 - - [24/Feb/2025 17:12:50] "GET / HTTP/1.1" 200 -
vagrant@oom2425-docker:~$
```

## Ejercicio 5:

```
vagrant@oom2425-docker: /vagrant/ej5$ docker compose -f compose.yml up
[+] Running 3/3
 ✓ Network ej5_default      Created
 ✓ Container ej5-redis-1    Created
 ✓ Container ej5-webapp-1   Created
Attaching to redis-1, webapp-1
redis-1 | 1:C 25 Feb 2025 08:55:39.693 # WARNING Memory overcommit must be enabled! Without it, a background save or replication may fail under low memory condition. Be
ing disabled, it can also cause failures without low memory condition, see https://github.com/jemalloc/jemalloc/issues/1328. To fix this issue add 'vm.overcommit_memory =
1' to /etc/sysctl.conf and then reboot or run the command 'sysctl vm.overcommit_memory=1' for this to take effect.
redis-1 | 1:C 25 Feb 2025 08:55:39.693 * o000o000o000o Redis is starting o000o000o000o
redis-1 | 1:C 25 Feb 2025 08:55:39.693 * Redis version=7.4.2, bits=64, commit=00000000, modified=0, pid=1, just started
redis-1 | 1:M 25 Feb 2025 08:55:39.693 * Configuration loaded
redis-1 | 1:M 25 Feb 2025 08:55:39.694 * monotonic clock: POSIX clock_gettime
redis-1 | 1:M 25 Feb 2025 08:55:39.696 * Running mode=standalone, port=6379.
redis-1 | 1:M 25 Feb 2025 08:55:39.696 * Server initialized
redis-1 | 1:M 25 Feb 2025 08:55:39.696 * Loading RDB produced by version 7.4.2
redis-1 | 1:M 25 Feb 2025 08:55:39.696 * RDB age 205 seconds
redis-1 | 1:M 25 Feb 2025 08:55:39.696 * RDB memory usage when created 0.95 Mb
redis-1 | 1:M 25 Feb 2025 08:55:39.696 * Done loading RDB, keys loaded: 1, keys expired: 0.
redis-1 | 1:M 25 Feb 2025 08:55:39.696 * DB loaded from disk: 0.000 seconds
redis-1 | 1:M 25 Feb 2025 08:55:39.696 * Ready to accept connections tcp
webapp-1 | * Serving Flask app 'counter.py'
webapp-1 | * Debug mode: on
webapp-1 | WARNING: This is a development server. Do not use it in a production deployment. Use a production WSGI server instead.
webapp-1 | * Running on all addresses (0.0.0.0)
webapp-1 | * Running on http://127.0.0.1:5000
webapp-1 | * Running on http://172.18.0.3:5000
webapp-1 | Press CTRL+C to quit
webapp-1 | * Restarting with stat
webapp-1 | * Debugger is active!
webapp-1 | * Debugger PIN: 889-144-423
redis-1 | 1:M 25 Feb 2025 08:55:55.367 * 1 changes in 5 seconds. Saving...
redis-1 | 1:M 25 Feb 2025 08:55:55.368 * Background saving started by pid 11
redis-1 | 11:C 25 Feb 2025 08:55:55.373 * DB saved on disk
redis-1 | 11:C 25 Feb 2025 08:55:55.376 * Fork COW for RDB: current 0 MB, peak 0 MB, average 0 MB
webapp-1 | 127.0.0.1 - - [25/Feb/2025 08:55:55] "GET / HTTP/1.1" 200 -
redis-1 | 1:M 25 Feb 2025 08:55:55.469 * Background saving terminated with success
webapp-1 | 10.0.2.2 - - [25/Feb/2025 08:56:01] "GET / HTTP/1.1" 200 -
redis-1 | 1:M 25 Feb 2025 08:56:01.839 * 1 changes in 5 seconds. Saving...
redis-1 | 1:M 25 Feb 2025 08:56:01.840 * Background saving started by pid 12
redis-1 | 12:C 25 Feb 2025 08:56:01.845 * DB saved on disk
redis-1 | 12:C 25 Feb 2025 08:56:01.849 * Fork COW for RDB: current 0 MB, peak 0 MB, average 0 MB
redis-1 | 1:M 25 Feb 2025 08:56:01.942 * Background saving terminated with success
webapp-1 | 127.0.0.1 - - [25/Feb/2025 08:56:10] "GET / HTTP/1.1" 200 -
redis-1 | 1:M 25 Feb 2025 08:56:10.529 * 1 changes in 5 seconds. Saving...
```

```
vagrant@oom2425-docker: /vagrant/ej5$ docker compose -f compose.yml ps
NAME                IMAGE          SERVICE   CREATED        STATUS        PORTS                               NAMES
ej5-redis-1         oom2425-redis-multi "redis-server --prot..." redis        21 minutes ago Up 14 seconds (health: starting) 6379/tcp  ej5-redis-1
ej5-webapp-1        oom2425-web    "flask run" webapp        21 minutes ago Up 14 seconds (health: starting) 0.0.0.0:80->5000/tcp, [::]:80->5000/tcp  ej5-webapp-1

vagrant@oom2425-docker: /vagrant/ej5$ docker ps -a
CONTAINER ID   IMAGE          COMMAND                  CREATED        STATUS        PORTS                               NAMES
db31b668d4e2   oom2425-web    "flask run"             21 minutes ago Up 25 seconds (healthy) 0.0.0.0:80->5000/tcp, [::]:80->5000/tcp  ej5-webapp-1
0935799f05ad   oom2425-redis-multi "redis-server --prot..." 21 minutes ago Up 25 seconds        6379/tcp  ej5-redis-1

vagrant@oom2425-docker: /vagrant/ej5$ curl -s http://localhost | grep "Redis counter"
<p>Redis counter: <span style="color: green;">32</span></p>

vagrant@oom2425-docker: /vagrant/ej5$ sed -i 's/Redis counter/New Redis counter/g' /vagrant/ej4/src/templates/index.html
vagrant@oom2425-docker: /vagrant/ej5$ curl -s http://localhost | grep "Redis counter"
<p>New Redis counter: <span style="color: green;">37</span></p>

vagrant@oom2425-docker: /vagrant/ej5$
```

## Ejercicio 6:

```
vagrant@oom2425-docker: /vagrant/ej6$ docker stack ls
NAME                SERVICES
mystack             2
vagrant@oom2425-docker: /vagrant/ej6$
vagrant@oom2425-docker: /vagrant/ej6$ docker stack services mystack
ID                NAME                MODE                REPLICAS            IMAGE                PORTS
xoh7f22wmdq3     mystack_redis        replicated          1/1                 localhost:5000/oom2425-redis-multi:latest
gib7xm42h6si     mystack_webapp       replicated          3/3                 localhost:5000/oom2425-web:latest          *:80->5000/tcp
vagrant@oom2425-docker: /vagrant/ej6$
vagrant@oom2425-docker: /vagrant/ej6$ docker stack ps mystack
ID                NAME                IMAGE                NODE                DESIRED STATE        CURRENT STATE        ERROR                PORTS
yy36w6lpscrh     mystack_redis.1     localhost:5000/oom2425-redis-multi:latest oom2425-docker      Running              Running 4 minutes ago
xentllsj1f4j     mystack_webapp.1     localhost:5000/oom2425-web:latest         oom2425-docker-worker Running              Running 4 minutes ago
oa7mb4pmdvove     mystack_webapp.2     localhost:5000/oom2425-web:latest         oom2425-docker      Running              Running 4 minutes ago
n60e1x15l59r     mystack_webapp.3     localhost:5000/oom2425-web:latest         oom2425-docker      Running              Running 4 minutes ago
vagrant@oom2425-docker: /vagrant/ej6$
vagrant@oom2425-docker: /vagrant/ej6$ docker ps
CONTAINER ID        IMAGE                COMMAND              CREATED              STATUS              PORTS              NAMES
e6de664fe870       localhost:5000/oom2425-web:latest "flask run"         4 minutes ago       Up 4 minutes (healthy) 5000/tcp           mystack_webapp.3.n60e1x15l59rse25t
6pjl5eps           fdfeb192165d        localhost:5000/oom2425-web:latest "flask run"         4 minutes ago       Up 4 minutes (healthy) 5000/tcp           mystack_webapp.2.oa7mb4pmdvoveaulz
8lx58u7a           fe93d8143216        localhost:5000/oom2425-redis-multi:latest "redis-server --prot..." 4 minutes ago       Up 4 minutes        6379/tcp           mystack_redis.1.yy36w6lpscrh2h2u6
3qd8mii
```

```
vagrant@oom2425-docker-worker: /vagrant/ej6$ docker ps
CONTAINER ID        IMAGE                COMMAND              CREATED              STATUS              PORTS              NAMES
e998f73e3658       localhost:5000/oom2425-web:latest "flask run"         5 minutes ago       Up 5 minutes (healthy) 5000/tcp           mystack_webapp.1.xentllsj1f4jev1ia9ljkv8
d
8670955de7c1       registry:2.8.3      "/entrypoint.sh /etc..." 17 minutes ago       Up 17 minutes        5000/tcp           registry.1.hw8fbedupgjdztuuw3m5xka
vagrant@oom2425-docker-worker: /vagrant/ej6$
```

```
vagrant@oom2425-docker: /vagrant/ej6$ docker stack services mystack
ID                NAME                MODE                REPLICAS            IMAGE                PORTS
xoh7f22wmdq3     mystack_redis        replicated          1/1                 localhost:5000/oom2425-redis-multi:latest
gib7xm42h6si     mystack_webapp       replicated          3/3                 localhost:5000/oom2425-web:latest          *:80->5000/tcp
vagrant@oom2425-docker: /vagrant/ej6$
vagrant@oom2425-docker: /vagrant/ej6$ docker service scale mystack_webapp=4
mystack_webapp scaled to 4
overall progress: 4 out of 4 tasks
1/4: running [=====]
2/4: running [=====]
3/4: running [=====]
4/4: running [=====]
verify: Service mystack_webapp converged
vagrant@oom2425-docker: /vagrant/ej6$
vagrant@oom2425-docker: /vagrant/ej6$ docker stack services mystack
ID                NAME                MODE                REPLICAS            IMAGE                PORTS
xoh7f22wmdq3     mystack_redis        replicated          1/1                 localhost:5000/oom2425-redis-multi:latest
gib7xm42h6si     mystack_webapp       replicated          4/4                 localhost:5000/oom2425-web:latest          *:80->5000/tcp
vagrant@oom2425-docker: /vagrant/ej6$
vagrant@oom2425-docker: /vagrant/ej6$ docker stack ps mystack
ID                NAME                IMAGE                NODE                DESIRED STATE        CURRENT STATE        ERROR                PORTS
yy36w6lpscrh     mystack_redis.1     localhost:5000/oom2425-redis-multi:latest oom2425-docker      Running              Running 51 minutes ago
xentllsj1f4j     mystack_webapp.1     localhost:5000/oom2425-web:latest         oom2425-docker-worker Running              Running 51 minutes ago
2rt40uj2mvdp     mystack_webapp.2     localhost:5000/oom2425-web:latest         oom2425-docker      Running              Running 3 minutes ago
oa7mb4pmdvove     \_ mystack_webapp.2  localhost:5000/oom2425-web:latest         oom2425-docker      Shutdown             Failed 3 minutes ago "task: non-zero exit (137)"
n60e1x15l59r     mystack_webapp.3     localhost:5000/oom2425-web:latest         oom2425-docker      Running              Running 51 minutes ago
hgdebpu18roo     mystack_webapp.4     localhost:5000/oom2425-web:latest         oom2425-docker-worker Running              Running 29 seconds ago
vagrant@oom2425-docker: /vagrant/ej6$
vagrant@oom2425-docker: /vagrant/ej6$ docker service scale mystack_webapp=2
mystack_webapp scaled to 2
overall progress: 2 out of 2 tasks
1/2: running [=====]
2/2: running [=====]
verify: Service mystack_webapp converged
vagrant@oom2425-docker: /vagrant/ej6$
vagrant@oom2425-docker: /vagrant/ej6$ docker stack services mystack
ID                NAME                MODE                REPLICAS            IMAGE                PORTS
xoh7f22wmdq3     mystack_redis        replicated          1/1                 localhost:5000/oom2425-redis-multi:latest
gib7xm42h6si     mystack_webapp       replicated          2/2                 localhost:5000/oom2425-web:latest          *:80->5000/tcp
vagrant@oom2425-docker: /vagrant/ej6$
vagrant@oom2425-docker: /vagrant/ej6$
```



# Ejercicio 7:

```
vagrant@oom2425-docker: / ~$ docker service ls
ID                NAME                MODE                REPLICAS                IMAGE                PORTS
w2pfpvcpmzva     redis               replicated          1/1                     localhost:5000/oom2425-redis-multi:latest
s80b6wc7owd3     registry            replicated          1/1                     registry:2.8.3
e86hzf36y16j     webapp              replicated          5/5                     localhost:5000/oom2425-web:latest
*:5000->5000/tcp
*:80->5000/tcp

vagrant@oom2425-docker: / ~$ docker service ps redis webapp
ID                NAME                IMAGE                NODE                DESIRED STATE        CURRENT STATE        ERROR                PORTS
oit2azjxrmhd     redis.1             localhost:5000/oom2425-redis-multi:latest oom2425-docker     Running              Running 23 minutes ago
u9b29zxdydc      webapp.1            localhost:5000/oom2425-web:latest          oom2425-docker     Running              Running 7 minutes ago
nd99fibck23e     webapp.2            localhost:5000/oom2425-web:latest          oom2425-docker-worker Running              Running 7 minutes ago
437ryz63uwz9     webapp.3            localhost:5000/oom2425-web:latest          oom2425-docker-worker Running              Running 7 minutes ago
eu0phhowtjrn     webapp.4            localhost:5000/oom2425-web:latest          oom2425-docker     Running              Running 7 minutes ago
kxmzgsj9euo      webapp.5            localhost:5000/oom2425-web:latest          oom2425-docker-worker Running              Running 7 minutes ago

vagrant@oom2425-docker: / ~$ docker ps
CONTAINER ID        IMAGE                COMMAND                  CREATED             STATUS              PORTS                NAMES
a728a78e3126      localhost:5000/oom2425-web:latest "flask run"            7 minutes ago      Up 7 minutes       5000/tcp              webapp.4.eu0phhowtjrn5m4j4yobpx9cq
063133c11ec9      localhost:5000/oom2425-web:latest "flask run"            7 minutes ago      Up 7 minutes       5000/tcp              webapp.1.u9b29zxdydcxbl1rjy13y2l4q
d3498b52b213      localhost:5000/oom2425-redis-multi:latest "redis-server --prot..." 23 minutes ago      Up 23 minutes      6379/tcp              redis.1.oit2azjxrmhdyep1cv5af0nj9

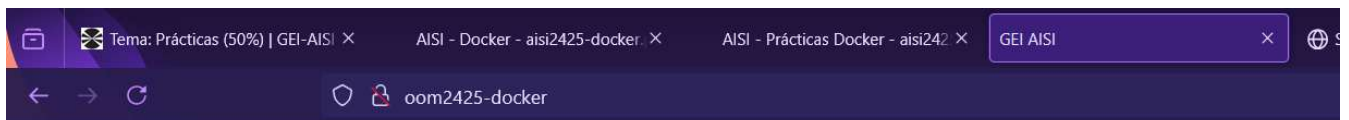
vagrant@oom2425-docker: / ~$
```

```
vagrant@oom2425-docker: / ~$ docker service inspect --pretty webapp

ID:                e86hzf36y16jeulvy3wjau30t
Name:              webapp
Service Mode:     Replicated
  Replicas:        5
UpdateStatus:
  State:           completed
  Started:         2 minutes ago
  Completed:       2 minutes ago
  Message:         update completed
Placement:
UpdateConfig:
  Parallelism:     1
  On failure:      pause
  Monitoring Period: 5s
  Max failure ratio: 0
  Update order:    stop-first
RollbackConfig:
  Parallelism:     1
  On failure:      pause
  Monitoring Period: 5s
  Max failure ratio: 0
  Rollback order:  stop-first
ContainerSpec:
  Image:           localhost:5000/oom2425-web:latest@sha256:f8e280e70451497ecc96ed4183dc3958beaeb7d09cada84eda3d909281c030e9
  Init:            false
Mounts:
  Target:          /src
  Source:           /vagrant/ej4/src
  ReadOnly:        false
  Type:            bind
Resources:
  Networks:        mynetwork
Endpoint Mode:    vip
Ports:
  PublishedPort = 80
  Protocol = tcp
  TargetPort = 5000
  PublishMode = ingress

vagrant@oom2425-docker: / ~$ curl -s localhost | grep "Redis counter"
<p>New Redis counter: 851</p>

vagrant@oom2425-docker: / ~$
```



**GEI AISI: 2024/2025**

**Flask+Redis WebApp (Docker)**

**Página web de Oscar Oliveira Miniño**

**URL: <http://oom2425-docker/>**

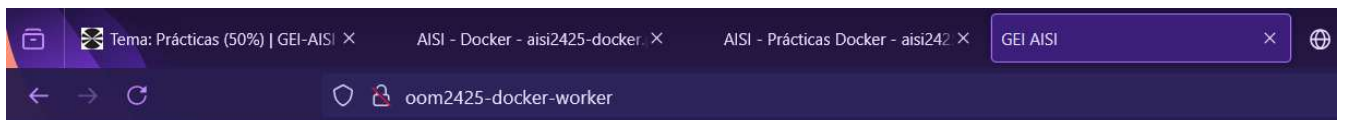
**Tue Feb 25 2025 19:20:22 GMT+0100 (hora estándar de Europa central)**

**Redis container: redis**

**Redis connection status: PASSED**

**New Redis counter: 854**

**Web Server IP: 10.0.0.41 | Client IP: 10.0.0.2**



**GEI AISI: 2024/2025**

**Flask+Redis WebApp (Docker)**

**Página web de Oscar Oliveira Miniño**

**URL: <http://oom2425-docker-worker/>**

**Tue Feb 25 2025 19:20:41 GMT+0100 (hora estándar de Europa central)**

**Redis container: redis**

**Redis connection status: PASSED**

**New Redis counter: 855**

**Web Server IP: 10.0.0.40 | Client IP: 10.0.0.3**

