

# Запускаю сервіси

```
[perry@kali: ~] $ cd /dsd/lab5d/messages-service/app
[+] $ CONSUL_HOST=host.docker.internal PYTHONPATH=../../ uvicorn main:app --host 0.0.0.0 --port 50054
INFO: Started server process [609463]
INFO: Waiting for application startup.
Kafka brokers: host.docker.internal:9092,host.docker.internal:9093,host.docker.internal:9094
Subscribed to {'messages'} with group messages-service-group
INFO: Application startup complete.

[+] $ CONSUL_HOST=host.docker.internal PYTHONPATH=../../ uvicorn main:app --host 0.0.0.0 --port 50055
INFO: Started server process [609464]
INFO: Waiting for application startup.
Kafka brokers: host.docker.internal:9092,host.docker.internal:9093,host.docker.internal:9094
Subscribed to {'messages'} with group messages-service-group
INFO: Application startup complete.

[venv]perry@kali: ~/kpi2m/dsd/lab5d/facade-service/app
[+] $ CONSUL_HOST=host.docker.internal PYTHONPATH=../../ uvicorn main:app --host 0.0.0.0 --port 8000
INFO: Started server process [609382]
INFO: Waiting for application startup.
Application startup complete.
INFO: Uvicorn running on https://0.0.0.0:8000 (Press CTRL+C to quit)
INFO: 172.22.0.2:46576 - "GET /health HTTP/1.1" 200 OK
INFO: 172.22.0.2:58984 - "GET /health HTTP/1.1" 200 OK
INFO: 172.22.0.2:37722 - "GET /health HTTP/1.1" 200 OK
INFO: 172.22.0.2:59044 - "GET /health HTTP/1.1" 200 OK
INFO: 172.22.0.2:46300 - "GET /health HTTP/1.1" 200 OK
INFO: 172.22.0.2:41614 - "GET /health HTTP/1.1" 200 OK
INFO: 172.22.0.2:39062 - "GET /health HTTP/1.1" 200 OK
```

```
KeyboardInterrupt

[+] $ CONSUL_HOST=host.docker.internal PYTHONPATH=../../ LOGGING_SERVICE_PORT=50051 python main.py
Logging Service is running on port 50051...

[venv]perry@kali: ~/kpi2m/dsd/lab5d/logging-service/app
File ~/home/perry/kpi2m/dsd/lab5d/.venv/lib/python3.12/site-packages/grpc/_server.py, line 14
94, in wait for termination
    return common.wait(
File ~/home/perry/kpi2m/dsd/lab5d/.venv/lib/python3.12/site-packages/grpc/_common.py, line 15
6, in wait
    wait_once(wait fn, MAXIMUM_WAIT_TIMEOUT, spin cb)
File ~/home/perry/kpi2m/dsd/lab5d/.venv/lib/python3.12/site-packages/grpc/_common.py, line 11
6, in wait once
    wait fn(timeout=timeout)
File ~/usr/lib/python3.12/threading.py, line 655, in wait
    signaled = self._cond.wait(timeout)
File ~/usr/lib/python3.12/threading.py, line 359, in wait
    gotit = waiter.acquire(True, timeout)
KeyboardInterrupt

[+] $ CONSUL_HOST=host.docker.internal PYTHONPATH=../../ LOGGING_SERVICE_PORT=50053 python main.py
Logging Service is running on port 50053...
```

CONTAINER ID	IMAGE	COMMAND	CREATED	STATUS	PORTS	NAMES
49e7f82a40c0	hashicorp/consul:1.18	"docker-entrypoint.s..."	26 minutes ago	Up 26 minutes	0.0.0.0:8500->8500/tcp, :::8500->8500/tcp	consul-server
fb5f2cec5afb	confluentinc/cp-kafka:7.4.0	"/etc/confluent/dock..."	4 hours ago	Up 4 hours	0.0.0.0:9094->9092/tcp, [::]:9094->9092/tcp	kafka3
1706f2c22b68	confluentinc/cp-kafka:7.4.0	"/etc/confluent/dock..."	4 hours ago	Up 4 hours	0.0.0.0:9093->9092/tcp, [::]:9093->9092/tcp	kafka2
76f66de08ea0	confluentinc/cp-kafka:7.4.0	"/etc/confluent/dock..."	4 hours ago	Up 4 hours	0.0.0.0:9092->9092/tcp, [::]:9092->9092/tcp	kafka1
0629ae03449d	confluentinc/cp-zookeeper:7.4.0	"/etc/confluent/dock..."	4 hours ago	Up 4 hours	2888/tcp, 0.0.0.0:2181->2181/tcp, [::]:2181->2181/tcp	zookeeper
1322cb9cae6f	hazelcast/management-center:5.5.0	"bash ./bin/mc-start..."	4 hours ago	Up 4 hours	8081/tcp, 8443/tcp, 0.0.0.0:8081->8081/tcp, [::]:8081->8081/tcp	hazelcast-mc
1fd90c5c23e5	hazelcast/hazelcast:5.5.0	"hz start"	4 hours ago	Up 4 hours	5701/tcp	hazelcast3
92ff3d449876	hazelcast/hazelcast:5.5.0	"hz start"	4 hours ago	Up 4 hours	5701/tcp	hazelcast2
440a5b8cfd90	hazelcast/hazelcast:5.5.0	"hz start"	4 hours ago	Up 4 hours	0.0.0.0:5701->5701/tcp, [::]:5701->5701/tcp	hazelcast1

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Overview

Services

Nodes

Key/Value

Intentions

Access Controls

Tokens

Policies

Roles

Auth Methods

## Services 4 total

Search	Search Across	Health Status	Service Type
consul	1 instance		
facade-service	1 instance facade-service, python		
messages-service	2 instances messages-service, python		
logging-service	3 instances logging-service, python		

# facade-service

Instances

Intentions

Routing

Tags

Q

Search

Search Across

Health Status

facade-service-8000-9a31cb5e

All service checks passing

All node checks passing

49e7f82a40c0

host.docker.internal:8000

facade-service, python

# messages-service

Instances

Intentions

Routing

Tags

Q Search

Search Across

Health Status

messages-service-50054-9a64dff7

All service checks passing

All node checks passing

49e7f82a40c0

host.docker.internal:50054

messages-service, python

messages-service-50054-ba693347

All service checks passing

All node checks passing

49e7f82a40c0

host.docker.internal:50054

messages-service, python

< All Services

# logging-service

Instances

Intentions

Routing

Tags

Q

Search

Search Across

Health Status

logging-service-50051-4738cdba

✔ All service checks passing

✔ All node checks passing

↔ 49e7f82a40c0

🌐 host.docker.internal:50051

🔗 logging-service, python

logging-service-50052-787b6bd2

✔ All service checks passing

✔ All node checks passing

↔ 49e7f82a40c0

🌐 host.docker.internal:50052

🔗 logging-service, python

logging-service-50053-3b04b59d

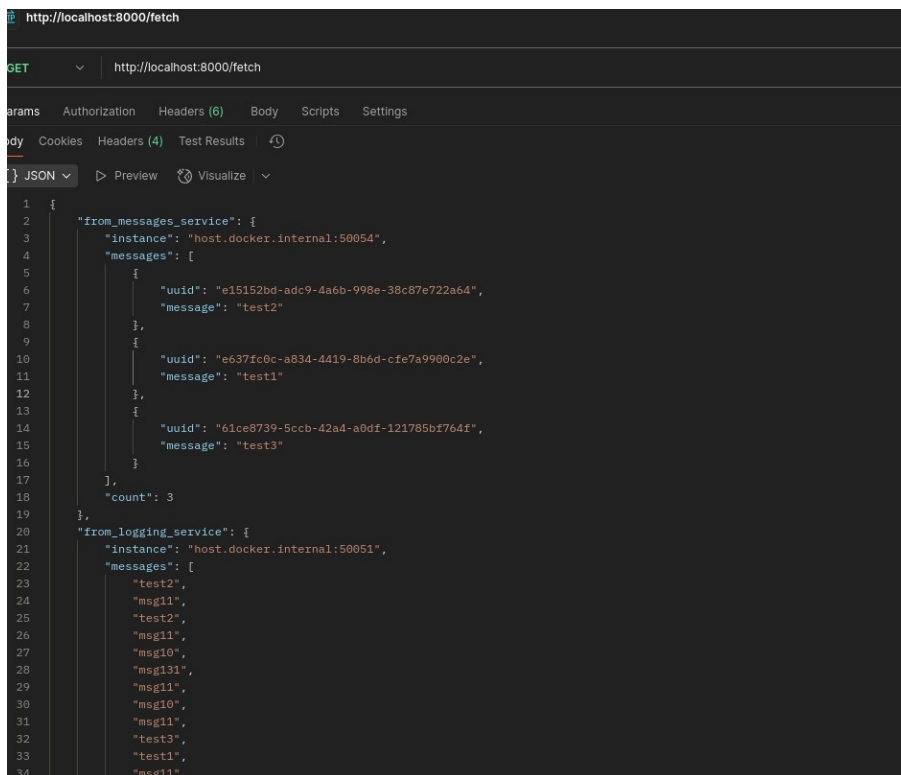
✔ All service checks passing

✔ All node checks passing

↔ 49e7f82a40c0

🌐 host.docker.internal:50053

🔗 logging-service, python



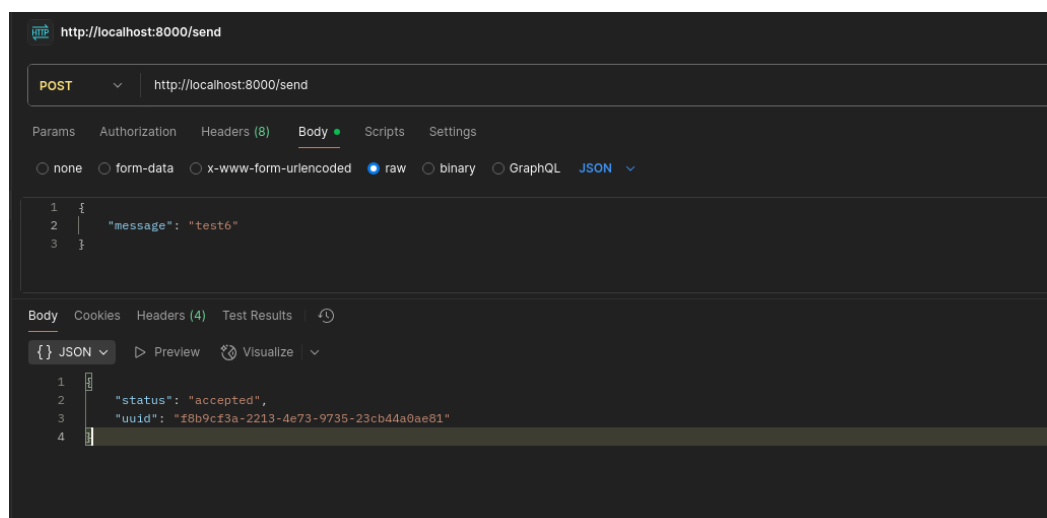
зупинив 1 меседж сервіс, бачимо що це відображається в consul

## messages-service

[Instances](#) [Intentions](#) [Routing](#) [Tags](#)

Search Across Health Status

**messages-service-50054-fe7ba861**  
✓ All service checks passing ✓ All node checks passing 49e7f82a40c0 host.docker.internal:50054 messages-service, python



також зупиню 2 логінг сервіси

```
return common.wait(
~~~~~
File "/home/perry/kpi2m/dsd/lab1/.venv/lib/python3.12/site-packages/grpc/_common.py", line
t
wait once(wait fn, MAXIMUM WAIT TIMEOUT, spin cb)
File "/home/perry/kpi2m/dsd/lab1/.venv/lib/python3.12/site-packages/grpc/_common.py", line
it once
wait fn(timeout=timeout)
File "/usr/lib/python3.12/threading.py", line 655, in wait
signaled = self._cond.wait(timeout)
~~~~~
File "/usr/lib/python3.12/threading.py", line 359, in wait
gotit = waiter.acquire(True, timeout)
~~~~~
KeyboardInterrupt

(.venv)perry@kali: ~/dsd/lab5d/logging-service/app
$
```

```
File "/home/perry/kpi2m/dsd/lab5d/logging-service/app/main.py", line 63, in <module>
serve()
File "/home/perry/kpi2m/dsd/lab5d/logging-service/app/main.py", line 60, in serve
server.wait_for_termination()
File "/home/perry/kpi2m/dsd/lab1/.venv/lib/python3.12/site-packages/grpc_server.py", line
94, in wait_for_termination
return common.wait(
~~~~~
File "/home/perry/kpi2m/dsd/lab1/.venv/lib/python3.12/site-packages/grpc/_common.py", line
6, in wait
wait once(wait fn, MAXIMUM WAIT TIMEOUT, spin cb)
File "/home/perry/kpi2m/dsd/lab1/.venv/lib/python3.12/site-packages/grpc/_common.py", line
6, in wait once
wait fn(timeout=timeout)
File "/usr/lib/python3.12/threading.py", line 655, in wait
signaled = self._cond.wait(timeout)
~~~~~
File "/usr/lib/python3.12/threading.py", line 359, in wait
gotit = waiter.acquire(True, timeout)
~~~~~
KeyboardInterrupt

(.venv)perry@kali: ~/dsd/lab5d/logging-service/app
$
```

бачимо що це відображається в consul

[All Services](#)

logging-service

Instances

Intentions

Routing

Tags

Q Search

Search Across

Health Status

logging-service-50051-4738cdba

All service checks passing

All node checks passing

49e7f82a40c0

host.docker.internal:50051

logging-service, python

```
http://localhost:8000/fetch

GET http://localhost:8000/fetch

Params Authorization Headers (6) Body Scripts Settings
Body Cookies Headers (4) Test Results
JSON Preview Visualize
21 {
22   "uid": "275cfb0b-2731-46ba-b2a9-482a1f5253cd",
23   "message": "test5"
24 },
25 {
26   "uid": "f8b9cf3a-2213-4e73-9735-23cbda0ae81",
27   "message": "test6"
28 }
29 ],
30 "count": 6
31 },
32 "from_logging_service": {
33   "instance": "host.docker.internal:50051",
34   "messages": [
35     "test2",
36     "test4",
37     "msg11",
38     "test2",
39     "msg11",
40     "msg10",
41     "msg11",
42     "test0",
43     "msg11",
44     "test0",
45     "msg10",
46     "msg11",
47     "test3",
48     "test1",
49     "msg11",
50     "msg10",
51     "msg10",
52     "test1"
53   ],
54   "count": 18
55 }
56 }
```