

Дмитренко ФБ-42мп

Підніму консіл сервер, кафка та хазелькаст

			lab5		Running (1/1)	0.73%	23 minutes ago				
			consul-server	hashicorp/consul:1.18	Running	0.73%	8500:8500 Show all ports (3)	23 minutes ago			

<input type="checkbox"/>	<div><div></div><div>lab3</div></div>				Running (4/4)	1.75%	21 minutes ago	<div><div></div><div>:</div><div></div></div>	
<input type="checkbox"/>	<div><div></div><div>hazelcast-node-2-1</div></div>	651748a3db7a	hazelcast/hazelcast:5.3.6		Running	0.44%	5702:5701	21 minutes ago	<div><div></div><div>:</div><div></div></div>
<input type="checkbox"/>	<div><div></div><div>hazelcast-node-1-1</div></div>	06245236223c	hazelcast/hazelcast:5.3.6		Running	0.39%	5701:5701	21 minutes ago	<div><div></div><div>:</div><div></div></div>
<input type="checkbox"/>	<div><div></div><div>hazelcast-mancenter-1</div></div>	0d148bcb68f2	hazelcast/management-center:5.3		Running	0.48%	8080:8080	21 minutes ago	<div><div></div><div>:</div><div></div></div>
<input type="checkbox"/>	<div><div></div><div>hazelcast-node-3-1</div></div>	052768215e6f5	hazelcast/hazelcast:5.3.6		Running	0.44%	5703:5701	21 minutes ago	<div><div></div><div>:</div><div></div></div>

		lab4		Running (4/4)	6.62%	45 seconds ago					
		kafka3	aa86f89335f0	confluentinc/cp-kafka:7.4.0	Running	1.27%	9094:9092	45 seconds ago			
		kafka1	f5a26385022d	confluentinc/cp-kafka:7.4.0	Running	1.04%	9092:9092	21 minutes ago			
		kafka2	6ea82ce510eb	confluentinc/cp-kafka:7.4.0	Running	4.24%	9093:9092	21 minutes ago			
		zookeeper	cfc85cb6587f	confluentinc/cp-zookeeper:7.4.0	Running	0.07%	2181:2181	21 minutes ago			

Services - Consul

localhost:8500/ui/dc1/services

dc1

Overview

Services

Nodes

Key/Value

Intentions

Access Controls

Tokens

Policies

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

Конфіг:

Key / Values / config / hazelcast

cluster_name

Value

dev

Key / Values / config / hazelcast

members

Value

127.0.0.1:5701,127.0.0.1:5702,127.0.0.1:5703

< Key / Values / config / kafka

brokers

Value

Code

localhost:9092,localhost:9093,localhost:9094

< Key / Values / config / kafka

messages_consumer_group

Value

Code

messages_consumers_group

< Key / Values / config / kafka

messages_topic

Value

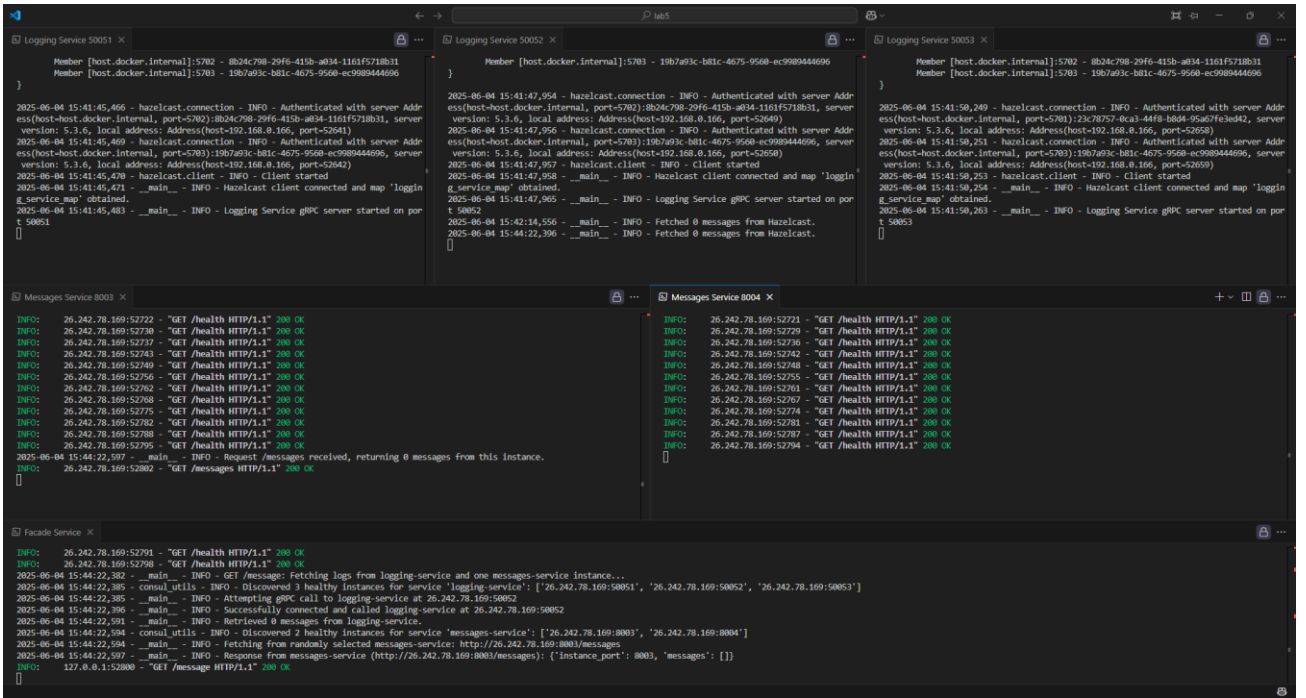
Code

lab4_messages_topic

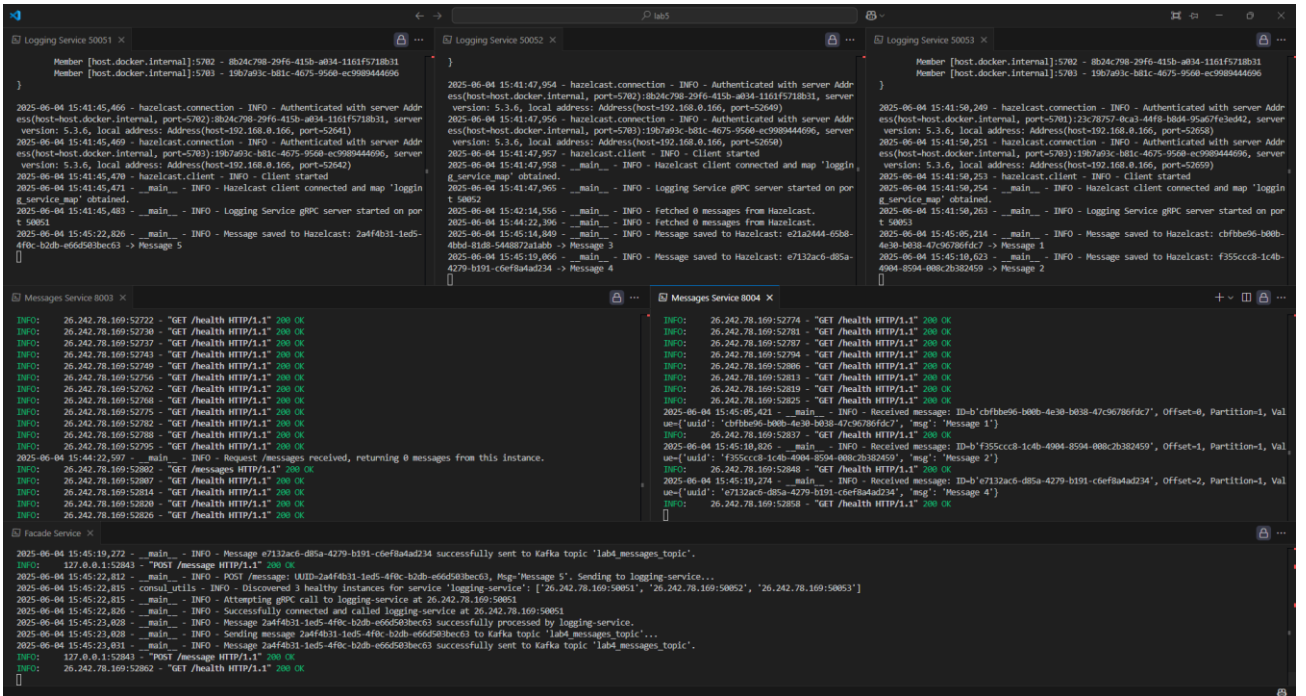
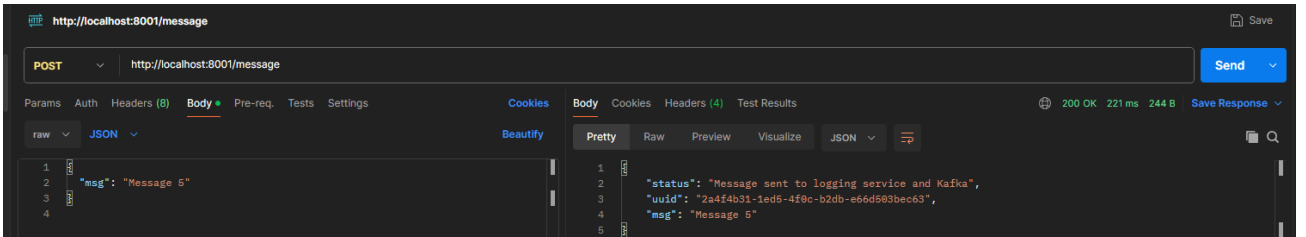
The screenshot displays a terminal window with several log panes. The top panes show logs for 'Logging Service 50051', 'Logging Service 50052', and 'Logging Service 50053'. These logs include authentication messages for 'Member [host.docker.internal]:5702' and 'Member [host.docker.internal]:5703', and information about Hazelcast connections and client status. The middle panes show logs for 'Messages Service 8003' and 'Messages Service 8004', which contain numerous 'GET /health HTTP/1.1' requests and responses, all returning '200 OK'. The bottom pane shows logs for 'Facade Service', also containing 'GET /health HTTP/1.1' requests and responses, all returning '200 OK'.

The screenshot shows a web browser window with a REST client interface. The URL bar shows 'http://localhost:8001/message'. The 'Send' button is highlighted. Below the URL bar, the 'Params' tab is selected, showing a table with 'Key' and 'Value' columns. The 'Body' tab is also visible, showing the response body in JSON format. The response body is:

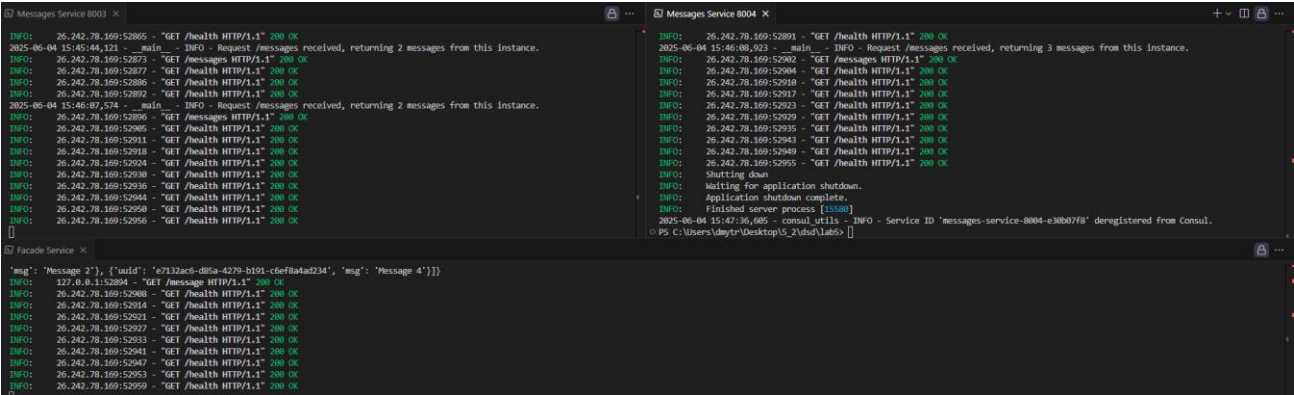
```
{  "logged_messages_from_hazelcast": [],  "messages_from_selected_messages_service": {    "instance_port": 8003,    "messages": []  }}
```



Додам кілька записів:



Відключу меседж сервіс:



messages-service

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

Unhealthy to Healthy

messages-service-8003-0b532b88

✓ All service checks passing ✓ All node checks passing 38498d46d510 26.242.78.169:8003 messages-service, python

Тут бачу лише 1 інстанс, через те що у мене автоматично анрегістр сервісу відбувається при завершенні. Тому крашнув в іншому терміналі для наглядності:

messages-service

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

Unhealthy to Healthy

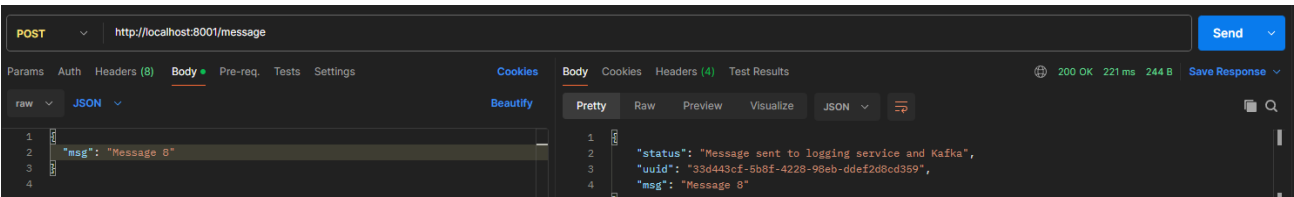
messages-service-8004-7489378d

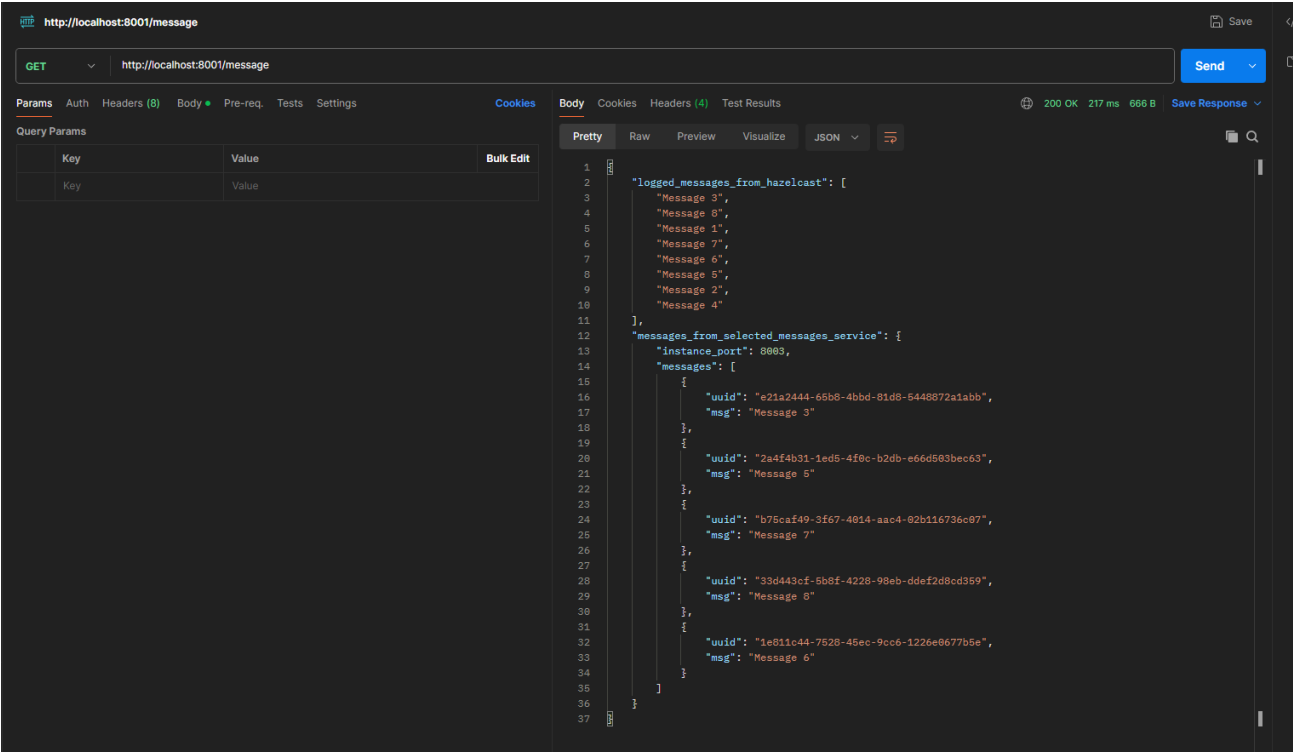
✗ All service checks failing ✓ All node checks passing 38498d46d510 26.242.78.169:8004 messages-service, python

messages-service-8003-0b532b88

✓ All service checks passing ✓ All node checks passing 38498d46d510 26.242.78.169:8003 messages-service, python

Додам ще повідомлень:



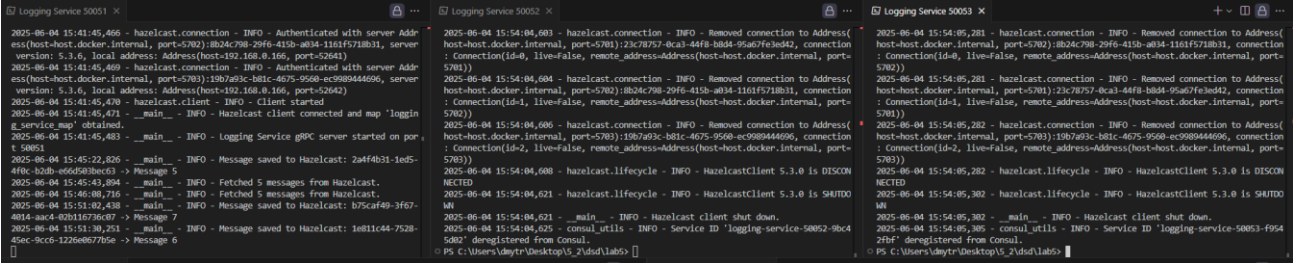


Далі стопну 2 логінг сервіси:

Instances	Intentions	Routing	Tags
Q Search	Search Across	Health Status	Unhealthy to Healthy
logging-service-50051-af792a8c	All service checks passing	All node checks passing	38498d46d510 26.242.78.169:50051 logging-service, python
logging-service-50052-9bc45d02	All service checks passing	All node checks passing	38498d46d510 26.242.78.169:50052 logging-service, python
logging-service-50053-f9542fbf	All service checks passing	All node checks passing	38498d46d510 26.242.78.169:50053 logging-service, python

logging-service

Instances	Intentions	Routing	Tags
Q Search	Search Across	Health Status	Unhealthy to Healthy
logging-service-50051-af792a8c	All service checks passing	All node checks passing	38498d46d510 26.242.78.169:50051 logging-service, python




```
ess(host-host.docker.internal, port=5783):19b7a93c-b81c-4675-9568-ec989444696, server
version: 5.3.6, local address: Address(host-192.168.0.166, port=52642)
2025-06-04 15:41:45,470 - hazelcast.client - INFO - Client started
2025-06-04 15:41:45,471 - _main_ - INFO - Hazelcast client connected and map 'loginn
g_service_map' obtained.
2025-06-04 15:41:45,483 - _main_ - INFO - Logging Service gRPC server started on por
t 50051.
2025-06-04 15:45:22,826 - _main_ - INFO - Message saved to Hazelcast: 2aef4b31-1ed5-
4f0c-b2db-e665d83ec3 -> Message 5
2025-06-04 15:45:43,894 - _main_ - INFO - Fetched 5 messages from Hazelcast.
2025-06-04 15:46:00,716 - _main_ - INFO - Fetched 5 messages from Hazelcast.
2025-06-04 15:51:02,438 - _main_ - INFO - Message saved to Hazelcast: b75caf49-3f67-
4814-aec4-028113736c07 -> Message 7
2025-06-04 15:51:38,251 - _main_ - INFO - Message saved to Hazelcast: 1e811c44-7528-
45ec-9cc0-1226e8677b5e -> Message 6
2025-06-04 15:54:46,830 - _main_ - INFO - Message saved to Hazelcast: 722ab981-68fd-
48e1-34f0-41E3a813a77a -> Message 9
2025-06-04 15:54:50,392 - _main_ - INFO - Message saved to Hazelcast: 8e7ae982-8577-
48a0-a4f8-c8d2cb4fa904 -> Message 10
||

2025-06-04 15:54:04,683 - hazelcast.connection - INFO - Removed connection to Address(
host-host.docker.internal, port=5781):23c70757-0ca3-44f8-b844-95a67e3ed42, connection
: Connection(id=0, live=false, remote_address=Address(host-host.docker.internal, port=
5781))
2025-06-04 15:54:04,684 - hazelcast.connection - INFO - Removed connection to Address(
host-host.docker.internal, port=5782):8b2c798-29f6-415b-4834-1161f5718b31, connection
: Connection(id=1, live=false, remote_address=Address(host-host.docker.internal, port=
5782))
2025-06-04 15:54:04,686 - hazelcast.connection - INFO - Removed connection to Address(
host-host.docker.internal, port=5783):1807a93c-b81c-4675-9568-ec989444696, connection
: Connection(id=2, live=false, remote_address=Address(host-host.docker.internal, port=
5783))
2025-06-04 15:54:04,688 - hazelcast.lifecycle - INFO - HazelcastClient 5.3.0 is DISCON
NECTED
2025-06-04 15:54:04,621 - hazelcast.lifecycle - INFO - HazelcastClient 5.3.0 is SHUTDO
WN
2025-06-04 15:54:04,621 - _main_ - INFO - Hazelcast client shut down.
2025-06-04 15:54:04,625 - consul_utils - INFO - Service ID 'logging-service-50052-9bc4
5d82' deregistered from Consul.
PS C:\Users\dmtr\Desktop\5_2\ud0\lab5> ||

2025-06-04 15:54:05,281 - hazelcast.connection - INFO - Removed connection to Address(
host-host.docker.internal, port=5782):8b2c798-29f6-415b-4834-1161f5718b31, connection
: Connection(id=0, live=false, remote_address=Address(host-host.docker.internal, port=
5782))
2025-06-04 15:54:05,281 - hazelcast.connection - INFO - Removed connection to Address(
host-host.docker.internal, port=5781):23c70757-0ca3-44f8-b844-95a67e3ed42, connection
: Connection(id=1, live=false, remote_address=Address(host-host.docker.internal, port=
5781))
2025-06-04 15:54:05,282 - hazelcast.connection - INFO - Removed connection to Address(
host-host.docker.internal, port=5783):1807a93c-b81c-4675-9568-ec989444696, connection
: Connection(id=2, live=false, remote_address=Address(host-host.docker.internal, port=
5783))
2025-06-04 15:54:05,282 - hazelcast.lifecycle - INFO - HazelcastClient 5.3.0 is DISCON
NECTED
2025-06-04 15:54:05,302 - hazelcast.lifecycle - INFO - HazelcastClient 5.3.0 is SHUTDO
WN
2025-06-04 15:54:05,302 - _main_ - INFO - Hazelcast client shut down.
2025-06-04 15:54:05,305 - consul_utils - INFO - Service ID 'logging-service-50053-f954
2fbf' deregistered from Consul.
PS C:\Users\dmtr\Desktop\5_2\ud0\lab5> ||
```

Нові меседжі отримав єдиний логінг сервіс.

```
http://localhost:8001/message

GET http://localhost:8001/message

Params Auth Headers (8) Body Pre-req. Tests Settings Cookies Body Cookies Headers (4) Test Results
200 OK 222 ms 824 B Save Response

raw JSON Beautify

1 [{"msg": "Message 10"}]
2
3
4

1 [{"logged_messages_from_hazelcast": [
2
3   "Message 3",
4   "Message 8",
5   "Message 1",
6   "Message 7",
7   "Message 6",
8   "Message 10",
9   "Message 5",
10  "Message 9",
11  "Message 2",
12  "Message 4"
13 ],
14 "messages_from_selected_messages_service": {
15   "instance_port": 8003,
16   "messages": [
17     {
```

Тобто все працює)