

Рябко Дмитро ФБ-42МП

```
## hazelcast3 Pulling          2.0s
## kafka1 Pulling             2.0s
[+] Running 0/16ling          2.0s
## kafka2 Pulling             2.1s
## facade-service Pulling     2.1s
## messages-service1 Pulling   2.1s
## hazelcast2 Pulling          2.1s
## hazelcast1 Pulling          2.1s
## consul Pulling              2.1s
## hazelcast3 Pulling          2.1s
## kafka1 Pulling              2.1s
[+] Running 0/16ling          2.1s
## kafka2 Pulling             2.2s
## facade-service Pulling     2.2s
## messages-service1 Pulling   2.2s
[+] Running 44/16ling          2.2s
✓ kafka2 Pulled               148.4s
✓ facade-service Pulled       113.0s
✓ messages-service1 Pulled    113.0s
## hazelcast2 Pulling          211.9s
## hazelcast1 [██████] 500.2MB / 500.8MB Pulling 211.9s
✓ consul Pulled               148.4s
## hazelcast3 Pulling          211.9s
✓ kafka1 Pulled               148.4s
✓ zookeeper Pulled            170.6s
✓ logging-service3 Pulled     113.0s
✓ kafka3 Pulled               148.4s
✓ kafka-init Pulled           148.4s
✓ messages-service2 Pulled    113.0s
✓ logging-service1 Pulled     113.0s
✓ consul-init Pulled          115.9s
✓ logging-service2 Pulled     113.0s
Ln 14, Col 1  Spaces: 4  UTF-8  LF  Shell Script  ⚡ Go Live  🔍  ⚙️  ⚒️  Prettier  ⌂
```

The screenshot shows the Docker Compose interface for a project named 'lab5'. The left sidebar lists services: lab5-hazelcast2-1, lab5-hazelcast3-1, lab5-hazelcast1-1, lab5-consul-1, lab5-zookeeper-1, lab5-kafka3-1, lab5-consul-init-1, and lab5-kafka1-1. The right side displays log entries for the 'logging-service' component across various hosts. The logs show multiple 'GET /health HTTP/1.1' requests with status 200 OK from different IP addresses (e.g., 172.25.0.4, 172.25.0.5, 172.25.0.6) at different times (e.g., 2025-06-03 14:47:08, 14:47:10, 14:47:12, etc.).

Host IP	Timestamp	Log Message
172.25.0.4	2025-06-03 14:47:08	INFO: "GET /health HTTP/1.1" 200 OK
172.25.0.4	2025-06-03 14:47:09	INFO: "GET /health HTTP/1.1" 200 OK
172.25.0.4	2025-06-03 14:47:10	INFO: "GET /health HTTP/1.1" 200 OK
172.25.0.4	2025-06-03 14:47:12	INFO: "GET /health HTTP/1.1" 200 OK
172.25.0.4	2025-06-03 14:47:13	INFO: "GET /health HTTP/1.1" 200 OK
172.25.0.4	2025-06-03 14:47:18	INFO: "GET /health HTTP/1.1" 200 OK
172.25.0.4	2025-06-03 14:47:19	INFO: "GET /health HTTP/1.1" 200 OK
172.25.0.4	2025-06-03 14:47:20	INFO: "GET /health HTTP/1.1" 200 OK
172.25.0.4	2025-06-03 14:47:22	INFO: "GET /health HTTP/1.1" 200 OK
172.25.0.4	2025-06-03 14:47:23	INFO: "GET /health HTTP/1.1" 200 OK
172.25.0.4	2025-06-03 14:47:23	INFO: "GET /health HTTP/1.1" 200 OK
172.25.0.4	2025-06-03 14:47:28	INFO: "GET /health HTTP/1.1" 200 OK
172.25.0.4	2025-06-03 14:47:29	INFO: "GET /health HTTP/1.1" 200 OK
172.25.0.4	2025-06-03 14:47:30	INFO: "GET /health HTTP/1.1" 200 OK
172.25.0.4	2025-06-03 14:47:32	INFO: "GET /health HTTP/1.1" 200 OK
172.25.0.4	2025-06-03 14:47:33	INFO: "GET /health HTTP/1.1" 200 OK
172.25.0.4	2025-06-03 14:47:33	INFO: "GET /health HTTP/1.1" 200 OK
172.25.0.4	2025-06-03 14:47:33	INFO: "GET /health HTTP/1.1" 200 OK
172.25.0.4	2025-06-03 14:47:38	INFO: "GET /health HTTP/1.1" 200 OK
172.25.0.4	2025-06-03 14:47:39	INFO: "GET /health HTTP/1.1" 200 OK
172.25.0.4	2025-06-03 14:47:40	INFO: "GET /health HTTP/1.1" 200 OK
172.25.0.4	2025-06-03 14:47:42	INFO: "GET /health HTTP/1.1" 200 OK
172.25.0.4	2025-06-03 14:47:43	INFO: "GET /health HTTP/1.1" 200 OK
172.25.0.4	2025-06-03 14:47:43	INFO: "GET /health HTTP/1.1" 200 OK
172.25.0.4	2025-06-03 14:47:48	INFO: "GET /health HTTP/1.1" 200 OK
172.25.0.4	2025-06-03 14:47:50	INFO: "GET /health HTTP/1.1" 200 OK
172.25.0.4	2025-06-03 14:47:52	INFO: "GET /health HTTP/1.1" 200 OK
172.25.0.4	2025-06-03 14:47:53	INFO: "GET /health HTTP/1.1" 200 OK
172.25.0.4	2025-06-03 14:47:53	INFO: "GET /health HTTP/1.1" 200 OK
172.25.0.4	2025-06-03 14:47:58	INFO: "GET /health HTTP/1.1" 200 OK
172.25.0.4	2025-06-03 14:47:59	INFO: "GET /health HTTP/1.1" 200 OK
172.25.0.4	2025-06-03 14:48:02	INFO: "GET /health HTTP/1.1" 200 OK
172.25.0.4	2025-06-03 14:48:03	INFO: "GET /health HTTP/1.1" 200 OK
172.25.0.4	2025-06-03 14:48:03	INFO: "GET /health HTTP/1.1" 200 OK

localhost:8500/ui/dc1/services

dc1

Overview

Services

Nodes

Key/Value

Intentions

ACCESS CONTROLS

Tokens

Policies

Roles

Auth Methods

ORGANIZATION

Peers

Services 4 total

Search Across

consul 1 instance

facade-service 1 instance

messages-service 2 instances

logging-service 3 instances

```
1  #!/bin/sh
2
3  sleep 5
4
5  curl --request PUT \
6  |  --data '{
7    "hosts": ["hazelcast1:5701", "hazelcast2:5701", "hazelcast3:5701"],
8    "cluster_name": "dev"
9  }' \
10 |  http://consul:8500/v1/kv/hazelcast/config
11
12 curl --request PUT \
13 |  --data '{
14   "bootstrap_servers": ["kafka1:9092", "kafka2:9093", "kafka3:9094"],
15   "topic": "messages"
16 }' \
17 |  http://consul:8500/v1/kv/kafka/config
18 |
```

Key / Value

Search

Actions

Name
...
hazelcast
kafka

Hazelcast config:

config

Value

```
1 {
2   "hosts": ["hazelcast1:5701", "hazelcast2:5701", "hazelcast3:5701"],
3   "cluster_name": "dev"
4 }
```

```
61     def load_hazelcast_config():
62         url = f"{CONSUL_ADDRESS}/v1/kv/hazelcast/config"
63         r = requests.get(url, timeout=3)
64         r.raise_for_status()
65         data = r.json()
66         raw = data[0]["Value"]
67         return json.loads(base64.b64decode(raw).decode("utf-8"))
68
```

Kafka config:

< Key / Values / kafka

config

Value

```
1 {
2   "bootstrap_servers": ["kafka1:9092", "kafka2:9093", "kafka3:9094"],
3   "topic": "messages"
4 }
```

Save

Cancel

```

def load_kafka_config():
    url = f"{CONSUL_ADDRESS}/v1/kv/kafka/config"
    r = requests.get(url, timeout=3)
    r.raise_for_status()
    data = r.json()
    raw = data[0]["Value"]
    return json.loads(base64.b64decode(raw).decode("utf-8"))

```

Подивимось, чи є повідомлення і чи хоча б все працює:

Postman screenshot showing a successful GET request to `http://localhost:8880/message`. The response is a **200 OK** with **818 ms** latency and **28 B** body size. The body preview shows an empty JSON object:

```

1 {  
2   "logging": [],  
3   "messages": []  
4 }

```

Відправимо 5 повідомень:

Postman screenshot showing a successful POST request to `http://localhost:8880/message`. The response is a **200 OK** with **97 ms** latency and **66 B** body size. The body preview shows a single message object:

```

1 {  
2   "message_id": "df6871ff-f60f-433a-bb9b-bda0b8bd30fb",  
3   "msg": "msg5"  
4 }

```

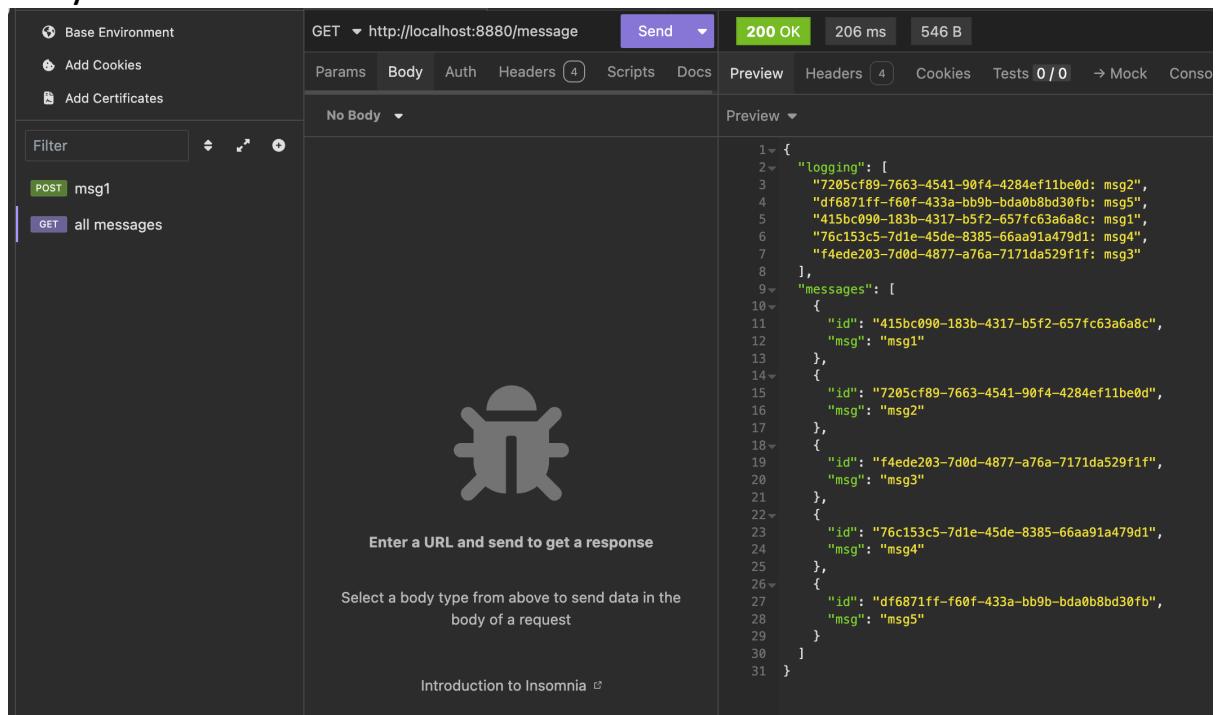
Логи:

```

2025-06-03 14:54:39 logging-service2 | Отримано повідомлення: msg2 з id: 7205cf89-7663-4541-90f4-4284ef11be0d
2025-06-03 14:54:39 logging-service2 | INFO: 172.25.0.13:47990 - "POST /log HTTP/1.1" 200 OK
2025-06-03 14:54:39 facade-service | INFO: 172.25.0.1:62130 - "POST /message HTTP/1.1" 200 OK
2025-06-03 14:54:40 messages-service2 | INFO: 172.25.0.4:37782 - "GET /health HTTP/1.1" 200 OK
2025-06-03 14:54:41 logging-service2 | INFO: 172.25.0.4:58406 - "GET /health HTTP/1.1" 200 OK
2025-06-03 14:54:42 logging-service1 | Отримано повідомлення: msg3 з id: f4ede203-7d0d-4877-a76a-7171da529f1f
2025-06-03 14:54:42 logging-service1 | INFO: 172.25.0.13:56326 - "POST /log HTTP/1.1" 200 OK
2025-06-03 14:54:42 facade-service | INFO: 172.25.0.1:62130 - "POST /message HTTP/1.1" 200 OK
2025-06-03 14:54:43 logging-service3 | INFO: 172.25.0.4:51670 - "GET /health HTTP/1.1" 200 OK
2025-06-03 14:54:43 messages-service1 | Отримано {'id': '415bc090-183b-4317-b5f2-657fc63a6a8c', 'msg': 'msg1'}
2025-06-03 14:54:43 messages-service1 | Отримано {'id': '7205cf89-7663-4541-90f4-4284ef11be0d', 'msg': 'msg2'}
2025-06-03 14:54:43 messages-service1 | Отримано {'id': 'f4ede203-7d0d-4877-a76a-7171da529f1f', 'msg': 'msg3'}
2025-06-03 14:54:43 messages-service1 | INFO: 172.25.0.4:46914 - "GET /health HTTP/1.1" 200 OK
2025-06-03 14:54:44 facade-service | INFO: 172.25.0.4:39648 - "GET /health HTTP/1.1" 200 OK
2025-06-03 14:54:46 logging-service3 | Отримано повідомлення: msg4 з id: 76c153c5-7d1e-45de-8385-66aa91a479d1
2025-06-03 14:54:46 logging-service3 | INFO: 172.25.0.13:47434 - "POST /log HTTP/1.1" 200 OK
2025-06-03 14:54:46 facade-service | INFO: 172.25.0.1:62130 - "POST /message HTTP/1.1" 200 OK
2025-06-03 14:54:48 logging-service1 | INFO: 172.25.0.4:49094 - "GET /health HTTP/1.1" 200 OK
2025-06-03 14:54:49 logging-service2 | Отримано повідомлення: msg5 з id: df6871ff-f60f-433a-bb9b-bda0b8bd30fb
2025-06-03 14:54:49 logging-service2 | INFO: 172.25.0.13:55050 - "POST /log HTTP/1.1" 200 OK
2025-06-03 14:54:49 facade-service | INFO: 172.25.0.1:62130 - "POST /message HTTP/1.1" 200 OK
2025-06-03 14:54:50 messages-service2 | INFO: 172.25.0.4:52912 - "GET /health HTTP/1.1" 200 OK
2025-06-03 14:54:51 logging-service2 | INFO: 172.25.0.4:36332 - "GET /health HTTP/1.1" 200 OK
2025-06-03 14:54:53 logging-service3 | INFO: 172.25.0.4:38814 - "GET /health HTTP/1.1" 200 OK
2025-06-03 14:54:53 messages-service1 | Отримано {'id': '76c153c5-7d1e-45de-8385-66aa91a479d1', 'msg': 'msg4'}
2025-06-03 14:54:53 messages-service1 | Отримано {'id': 'df6871ff-f60f-433a-bb9b-bda0b8bd30fb', 'msg': 'msg5'}
2025-06-03 14:54:53 messages-service1 | INFO: 172.25.0.4:52724 - "GET /health HTTP/1.1" 200 OK
2025-06-03 14:54:54 facade-service | INFO: 172.25.0.4:39694 - "GET /health HTTP/1.1" 200 OK

```

Результат:



The screenshot shows the Insomnia REST client interface. A successful GET request was made to `http://localhost:8880/message`. The response status is `200 OK`, and the response time is `206 ms`. The response body is a JSON object containing logs and messages.

```

1< {
2<   "logging": [
3<     "7205cf89-7663-4541-90f4-4284ef11be0d: msg2",
4<     "df6871ff-f60f-433a-bb9b-bda0b8bd30fb: msg5",
5<     "415bc090-183b-4317-b5f2-657fc63a6a8c: msg1",
6<     "76c153c5-7d1e-45de-8385-66aa91a479d1: msg4",
7<     "f4ede203-7d0d-4877-a76a-7171da529f1f: msg3"
8<   ],
9<   "messages": [
10<     {
11<       "id": "415bc090-183b-4317-b5f2-657fc63a6a8c",
12<       "msg": "msg1"
13<     },
14<     {
15<       "id": "7205cf89-7663-4541-90f4-4284ef11be0d",
16<       "msg": "msg2"
17<     },
18<     {
19<       "id": "f4ede203-7d0d-4877-a76a-7171da529f1f",
20<       "msg": "msg3"
21<     },
22<     {
23<       "id": "76c153c5-7d1e-45de-8385-66aa91a479d1",
24<       "msg": "msg4"
25<     },
26<     {
27<       "id": "df6871ff-f60f-433a-bb9b-bda0b8bd30fb",
28<       "msg": "msg5"
29<     }
30<   ]
31< }

```

Перевіримо відмовостійкість:

Відключим один Message service:

```
8881:8881 ↳
messages-service1
python:3.10-slim
8890:8890
logging-service3
python:3.10-slim
91a479d1
```

Time	Message
2025-06-03 14:54	'msg1'}
2025-06-03 14:54	'msg2'}
2025-06-03 14:54	'msg3'}
2025-06-03 14:54	2025-06-03 14:54
2025-06-03 14:54	2025-06-03 14:54
2025-06-03 14:54	91a479d1

Services 4 total

Search	Search Across	Health Status	Service Type
<input checked="" type="checkbox"/> messages-service			
2 instances			
<input checked="" type="checkbox"/> consul			
1 instance			
<input checked="" type="checkbox"/> facade-service			
1 instance			
<input checked="" type="checkbox"/> logging-service			
3 instances			

messages-service

The screenshot shows the Consul UI with the 'Instances' tab selected. There are two service instances listed:

- messages-service-a4af6111-1390-458e-808e-bc1d81029610**: Status: All service checks failing. Node ID: 32bf6aec698c. Address: 172.25.0.17:8890.
- messages-service-b3ef01a2-70aa-4df3-816a-7590adea8800**: Status: All service checks passing. Node ID: 32bf6aec698c. Address: 172.25.0.16:8891.

Бачимо, що consul моніторить, що наш один сервіс не активний завдяки health запитам.

Зчитування адреси з consul:

```
def get_healthy_instances(service_name: str):
    url = f"{CONSUL_ADDRESS}/v1/health/service/{service_name}?passing=true"
    r = requests.get(url, timeout=3)
    r.raise_for_status()
    entries = r.json()
    result = []
    for entry in entries:
        svc = entry.get("Service", {})
        addr = svc.get("Address")
        port = svc.get("Port")
        if addr and port:
            result.append(f"http://[{addr}]:{port}")
    return result
```

Додамо, ще два повідомлення:

POST ▼ http://localhost:8880/message Send ▼ 200 OK 99 ms 66 B

Params Body (1) Auth Headers (5) Scripts D Preview Headers (4) Cookies Tests 0 / 0 → Mock Console

JSON ▼

```
1 {"msg": "msg7"}
```

1 {
2 "message_id": "9bd77111-41f0-489a-b074-52e775dca8c2",
3 "msg": "msg7"
4 }

Add Certificates

Filter

POST msg1

GET all messages

No Body ▼

Preview ▼

```
1 {  
2   "logging": [  
3     "7205cf89-7663-4541-99f4-4284ef11be0d: msg2",  
4     "df6871ff-f60f-433a-bb9b-bda0b8bd30fb: msg5",  
5     "0341a3ce-e692-4003-bd77-b42a73978cb5: msg6",  
6     "415bc090-183b-4317-b5f2-6577fc63a6a8c: msg1",  
7     "9bd77111-41f0-489a-b074-52e775dca8c2: msg7",  
8     "76c153c5-7d1e-45de-8385-66aa91a479d1: msg4",  
9     "f4ede203-7d0d-4877-a76a-7171da529f1f: msg3"  
10   ],  
11   "messages": [  
12     {  
13       "id": "0341a3ce-e692-4003-bd77-b42a73978cb5",  
14       "msg": "msg6"  
15     },  
16     {  
17       "id": "9bd77111-41f0-489a-b074-52e775dca8c2",  
18       "msg": "msg7"  
19     }  
20   ]  
21 }
```

Enter a URL and send to get a response

У топіка Kafka одна партіція і попередні 5 повідомлень були прочитані вже вимкнутим сервісом. Тому тут ми бачимо тільки останні два повідомлення

Переналаштуєм на партіцію 2:

Внесемо 7 нових повідомлень:

JSON ▼

```
1 {"msg": "msg7"}
```

Preview ▼

```
1 {  
2   "message_id": "15107db9-3575-4936-9b94-4307a58543f5",  
3   "msg": "msg7"  
4 }
```

ЛОГИ:

```
2025-06-03 15:21:05 facade-service | INFO: 172.25.0.1:56312 - "POST /Message HTTP/1.1" 200 OK
2025-06-03 15:21:05 messages-service1 | Отримано {'id': '64845212-5fa6-49b4-bdd8-42315d5b6e94', 'msg': 'msg3'}
2025-06-03 15:21:05 messages-service1 | INFO: 172.25.0.6:38450 - "GET /health HTTP/1.1" 200 OK
2025-06-03 15:21:06 logging-service1 | Отримано повідомлення: msg6 з id: c1aceda8-96a3-410a-a97d-1fc4
4b007ec4
2025-06-03 15:21:06 logging-service1 | INFO: 172.25.0.13:42684 - "POST /log HTTP/1.1" 200 OK
2025-06-03 15:21:06 facade-service | INFO: 172.25.0.1:56312 - "POST /message HTTP/1.1" 200 OK
2025-06-03 15:21:06 messages-service2 | Отримано {'id': 'e1ae5bd6-a654-4ab6-87eb-27041c3f0b54', 'msg': 'msg4'}
2025-06-03 15:21:06 messages-service2 | INFO: 172.25.0.6:38450 - "GET /health HTTP/1.1" 200 OK
2025-06-03 15:21:06 messages-service2 | Отримано {'id': 'b0b428e5-3c24-4efd-9158-1d8457b437cf', 'msg': 'msg5'}
2025-06-03 15:21:06 messages-service2 | Отримано {'id': 'c1aceda8-96a3-410a-a97d-1fc4b007ec4', 'msg': 'msg6'}
2025-06-03 15:21:06 messages-service2 | INFO: 172.25.0.6:38218 - "GET /health HTTP/1.1" 200 OK
2025-06-03 15:21:07 facade-service | INFO: 172.25.0.1:56312 - "GET /health HTTP/1.1" 200 OK
```

Один Message сервіс:

Preview ▾

```
1  {
2    "logging": [
3      "bf89cf5-4dca-4512-a3bd-ffbe9cf59a4c: msg1",
4      "15107db9-3575-4936-9b94-4307a58543f5: msg7",
5      "b0b428e5-3c24-4efd-9158-1d8457b437cf: msg5",
6      "bf474ab0-9b23-4ab3-b924-e631533ec41c: msg2",
7      "e1ae5bd6-a654-4ab6-87eb-27041c3f0b54: msg4",
8      "64845212-5fa6-49b4-bdd8-42315d5b6e94: msg3",
9      "c1aceda8-96a3-410a-a97d-1fc4b007ec4: msg6"
10   ],
11   "messages": [
12     {
13       "id": "bf89cf5-4dca-4512-a3bd-ffbe9cf59a4c",
14       "msg": "msg1"
15     },
16     {
17       "id": "64845212-5fa6-49b4-bdd8-42315d5b6e94",
18       "msg": "msg3"
19     },
20     {
21       "id": "15107db9-3575-4936-9b94-4307a58543f5",
22       "msg": "msg7"
23     }
24   ]
25 }
```

Це відповідь вже іншого Message сервісу (бачимо по іншим повідомленням):



```
Preview ▾

1▼ {
2▼   "logging": [
3    "bf89cfc5-4dca-4512-a3bd-ffbe9cf59a4c: msg1",
4    "15107db9-3575-4936-9b94-4307a58543f5: msg7",
5    "b0b428e5-3c24-4efd-9158-1d8457b437cf: msg5",
6    "bf474ab0-9b23-4ab3-b924-e631533ec41c: msg2",
7    "e1ae5bd6-a654-4ab6-87eb-27041c3f0b54: msg4",
8    "64845212-5fa6-49b4-bdd8-42315d5b6e94: msg3",
9    "c1aceda8-96a3-410a-a97d-1fc4b007ec4: msg6"
10   ],
11▼   "messages": [
12▼     {
13      "id": "bf474ab0-9b23-4ab3-b924-e631533ec41c",
14      "msg": "msg2"
15    },
16▼     {
17      "id": "e1ae5bd6-a654-4ab6-87eb-27041c3f0b54",
18      "msg": "msg4"
19    },
20▼     {
21      "id": "b0b428e5-3c24-4efd-9158-1d8457b437cf",
22      "msg": "msg5"
23    },
24▼     {
25      "id": "c1aceda8-96a3-410a-a97d-1fc4b007ec4",
26      "msg": "msg6"
27    }
28  ]
29 }
```

Тепер вимкнемо 2 logging service:

9093.9093						Upd=/ b07da reati 2033- loggi consu w cri 2025- rvice 2025- ched 2025- rvice 2025- ched 2025-
	logging-service2	python:3.10-slim				
			8882:8882			
	facade-service	python:3.10-slim				
			8880:8880 ↗			
	logging-service1	python:3.10-slim				
			8881:8881			

Services 4 total

 Search	Search Across ▾	Health Status ▾	Service Type ▾
 logging-service			

3 instances

logging-service

Instances	Intentions	Routing	Tags
 Search	Search Across ▾	Health Status ▾	
logging-service-36c1a72c-f264-45a7-b7ed-4973225eca2e			
 All service checks failing  All node checks passing  eac06ea0c02b  172.25.0.12:8881			
logging-service-560f22e2-1293-4943-8500-a7390e3a15ae			
 All service checks failing  All node checks passing  eac06ea0c02b  172.25.0.16:8882			
logging-service-d8b5bb24-cb88-43f9-a91b-aa7b5732ef6b			
 All service checks passing  All node checks passing  eac06ea0c02b  172.25.0.11:8883			

```

POST ▾ http://localhost:8880/message Send ▾ 200 OK 122 ms 67 B
Params Body Auth Headers 5 Scripts D Preview Headers 4 Cookies Tests 0 / 0 → Mock Console
JSON ▾
1 {"msg": "msg10"} ▾
1 {
2   "message_id": "75ec00b7-744e-440d-abbe-856d79af04d9",
3   "msg": "msg10"
4 }

```

```

2025-06-03 15:33:26 facade-service | INFO:      172.25.0.1:61464 - "POST /message HTTP/1.1" 200 OK
2025-06-03 15:33:26 logging-service3 | Отримано повідомлення: msg10 з id: 4264baeb-aa69-49a4-a307-6212e6f26ac7
2025-06-03 15:33:26 logging-service3 | INFO:      172.25.0.13:60820 - "POST /log HTTP/1.1" 200 OK
2025-06-03 15:33:26 messages-service1 | Отримано {"id": "4264baeb-aa69-49a4-a307-6212e6f26ac7", "msg": "msg10"}
2025-06-03 15:33:26 messages-service1 | INFO:      172.25.0.6:46752 - "GET /health HTTP/1.1" 200 OK
2025-06-03 15:33:28 consul-1 | 2025-06-03T12:33:28.211Z [WARN] agent: Check is now critical: check=service.logging-service-36c1a72c-f264-45a7-b7ed-4973225eca2e

```

Logging service 3 отримує всі повідомлення:

```

ers 4 Scripts Docs Preview Headers 4 Cookies Tests 0 / 0 → Mock Console
Preview ▾
1 {
2   "logging": [
3     "bf89cfc5-4dca-4512-a3bd-ffbe9cf59a4c: msg1",
4     "15107db9-3575-4936-9b94-4307a58543f5: msg7",
5     "16472c88-c5fa-4ff4-8fa3-1d548dc8adce: msg9",
6     "b0b428e5-3c24-4efd-9158-1d8457b437cf: msg5",
7     "8f57d3a8-c9e2-4cb2-b1c4-471bcb7ca6af: msg8",
8     "4264baeb-aa69-49a4-a307-6212e6f26ac7: msg10",
9     "bf474ab0-9b23-4ab3-b924-e631533ec41c: msg2",
10    "e1ae5bd6-a654-4ab6-87eb-27041c3f0b54: msg4",
11    "75ec00b7-744e-440d-abbe-856d79af04d9: msg10",
12    "64845212-5fa6-49b4-bdd8-42315d5b6e94: msg3",
13    "c1aceda8-96a3-410a-a97d-1fc4b007ec4: msg6"
14  ],
15  "messages": [
16    {
17      "id": "8f57d3a8-c9e2-4cb2-b1c4-471bcb7ca6af",
18      "msg": "msg8"
19    }
20  ]
21 }

```

Як бачимо, все працює

Docker desktop:

Container	Image	Ports	Logs
messages-service1	python:3.10-slim	8890:8890	<pre>2025-06-03 15:32:39 logging-service3 INFO: 172.25.0.6:34414 - "GET /health HTTP/1.1" 200 OK 2025-06-03 15:32:39 facade-service INFO: 172.25.0.6:54422 - "GET /health HTTP/1.1" 200 OK 2025-06-03 15:32:46 messages-service1 INFO: 172.25.0.6:34318 - "GET /health HTTP/1.1" 200 OK 2025-06-03 15:32:49 messages-service2 INFO: 172.25.0.6:53952 - "GET /health HTTP/1.1" 200 OK 2025-06-03 15:32:49 logging-service3 INFO: 172.25.0.6:39218 - "GET /health HTTP/1.1" 200 OK 2025-06-03 15:32:49 consul-1 2025-06-03T12:32:49.209Z [WARN] agent: Check is now critical: check-service:logging-service-36c1a72cf264-45a7-b7ed-4973252eca2e 2025-06-03 15:32:49 facade-service INFO: 172.25.0.6:56608 - "GET /health HTTP/1.1" 200 OK 2025-06-03 15:32:51 consul-1 2025-06-03T12:32:51.700Z [WARN] agent: Check is now critical: check-service:logging-service-560f22e2-1293-4943-8500-a7390ea3a1ae 2025-06-03 15:32:52 consul-1 2025-06-03T12:32:52.005Z [WARN] agent: Check is now critical: check-service:messages-service-aa89caef-9126-4d0e-a998-cdc68c986596 2025-06-03 15:32:56 messages-service1 INFO: 172.25.0.6:43236 - "GET /health HTTP/1.1" 200 OK 2025-06-03 15:32:58 logging-service3 INFO: 172.25.0.6:38100 - "POST /log HTTP/1.1" 200 OK </pre> <p>Отримано повідомлення: msg8 з ід: 8f57d3a8-c9e2-4cb2-b1c4-471bcb7ca6af</p>
lab5-kafka-init-1	confluentinc/cp-kafka:	9094:9094	<pre>2025-06-03 15:32:58 logging-service3 INFO: 172.25.0.13:38130 - "POST /log HTTP/1.1" 200 OK 2025-06-03 15:32:58 facade-service INFO: 172.25.0.1:64058 - "POST /message HTTP/1.1" 200 OK 2025-06-03 15:32:59 messages-service2 INFO: 172.25.0.6:41050 - "GET /health HTTP/1.1" 200 OK </pre> <p>Отримано ['id': '8f57d3a8-c9e2-4cb2-b1c4-471bcb7ca6af', 'msg': 'msg8']</p>
lab5-kafka2-1	confluentinc/cp-kafka:	9093:9093	<pre>2025-06-03 15:32:59 messages-service2 INFO: 172.25.0.6:48958 - "GET /health HTTP/1.1" 200 OK 2025-06-03 15:32:59 logging-service3 INFO: 172.25.0.6:52638 - "GET /health HTTP/1.1" 200 OK 2025-06-03 15:32:59 facade-service INFO: 172.25.0.6:41050 - "GET /health HTTP/1.1" 200 OK 2025-06-03 15:33:01 logging-service3 INFO: 172.25.0.13:57054 - "POST /log HTTP/1.1" 200 OK </pre> <p>Отримано повідомлення: msg9 з ід: 16472c88-c5fa-4ff4-8fa3-1d548dc8adce</p>
logging-service2	python:3.10-slim	8882:8882	<pre>2025-06-03 15:33:01 logging-service3 INFO: 172.25.0.1:64058 - "POST /message HTTP/1.1" 200 OK 2025-06-03 15:33:02 consul-1 2025-06-03T12:33:02.204Z [WARN] agent: Check is now critical: check-service:logging-service-36c1a72cf264-45a7-b7ed-4973252eca2e 2025-06-03 15:33:04 consul-1 2025-06-03T12:33:04.698Z [WARN] agent: Check is now critical: check-service:logging-service-560f22e2-1293-4943-8500-a7390ea3a1ae 2025-06-03 15:33:04 logging-service3 INFO: 172.25.0.13:57054 - "POST /log HTTP/1.1" 200 OK </pre> <p>Отримано повідомлення: msg10 з ід: 75ec00b7-744e-440d-abbe-856d79af0d9</p>
facade-service	python:3.10-slim	8880:8880	<pre>2025-06-03 15:33:04 logging-service3 INFO: 172.25.0.1:64058 - "POST /message HTTP/1.1" 200 OK 2025-06-03 15:33:05 consul-1 2025-06-03T12:33:05.005Z [WARN] agent: Check is now critical: check-service:messages-service-aa89caef-9126-4d0e-a998-cdc68c986596 2025-06-03 15:33:06 messages-service1 INFO: 172.25.0.6:34414 - "GET /health HTTP/1.1" 200 OK </pre> <p>Отримано повідомлення: msg11 з ід: 16472c88-c5fa-4ff4-8fa3-1d548dc8adce, 'msg': ''</p>