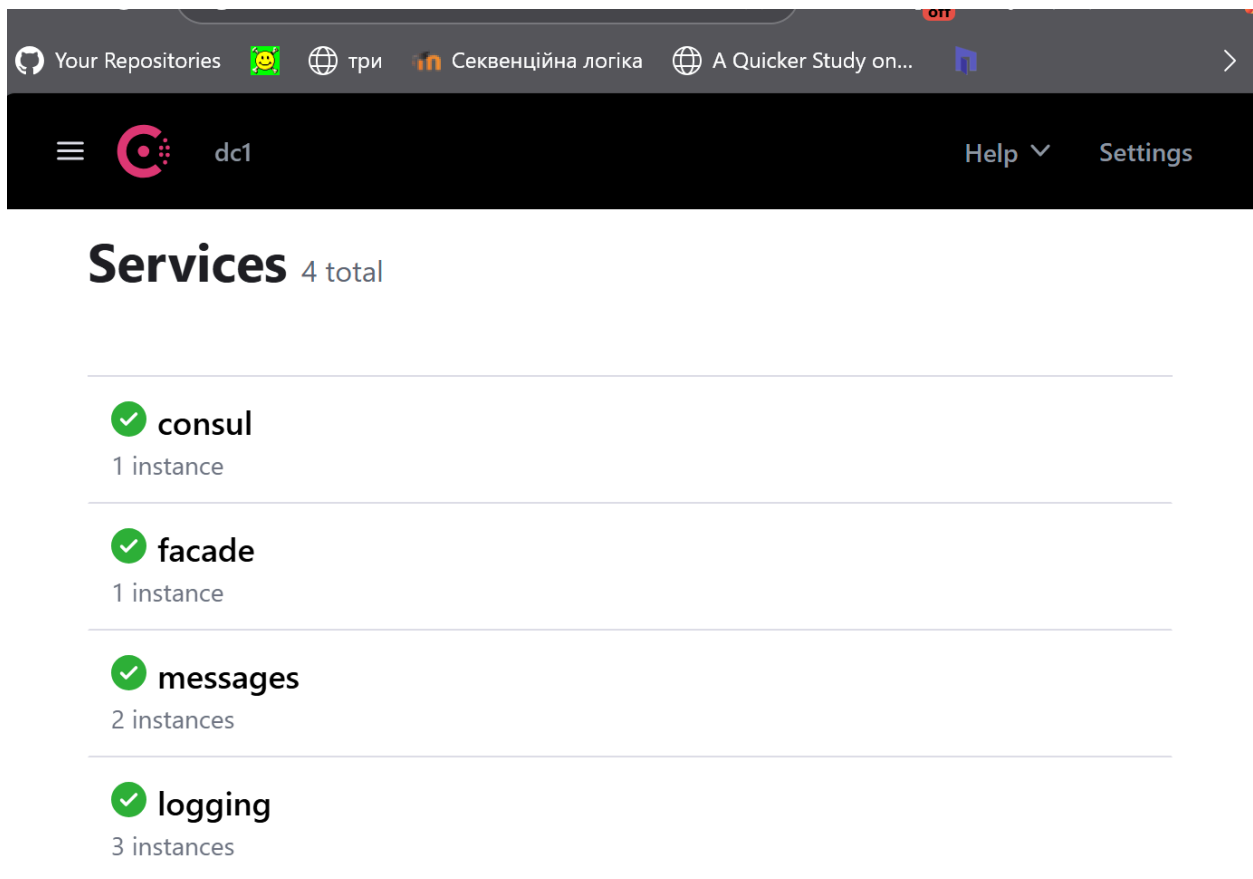
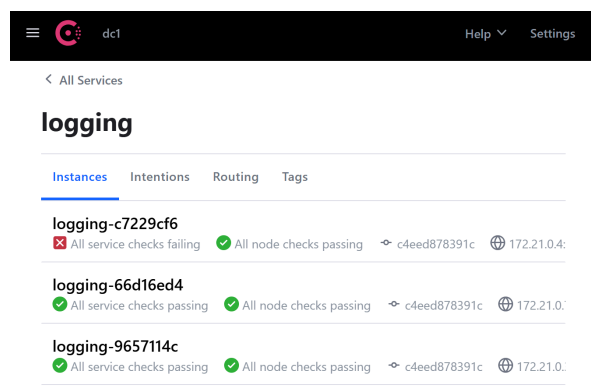
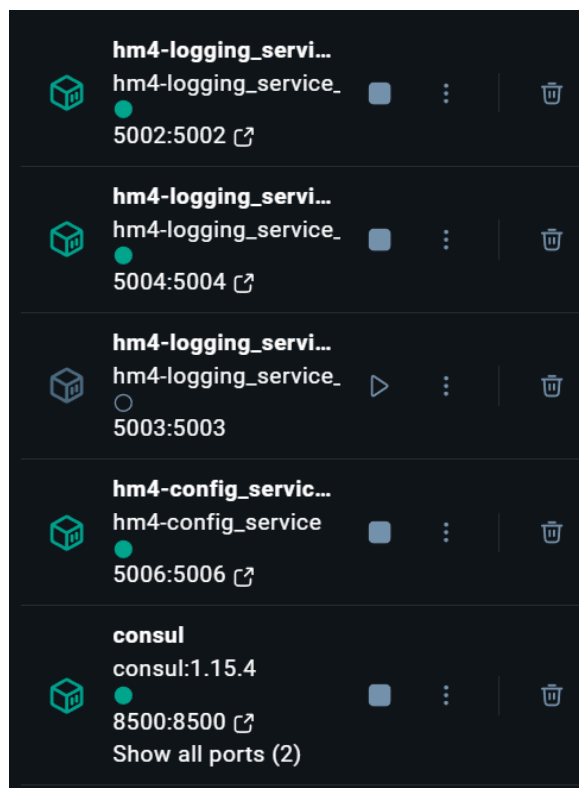


APZ

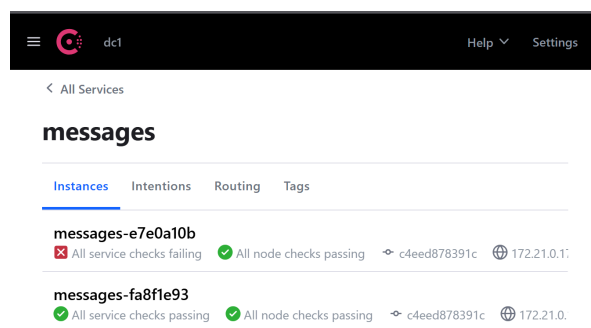
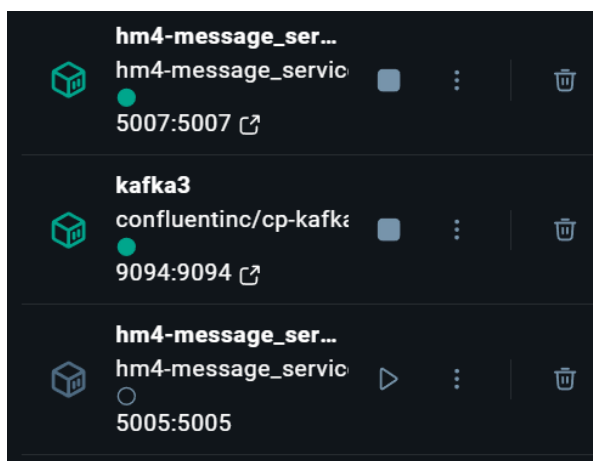
So basically, I have added a basic code to add the consul. When I have run it using yaml, I was able to see all services running.



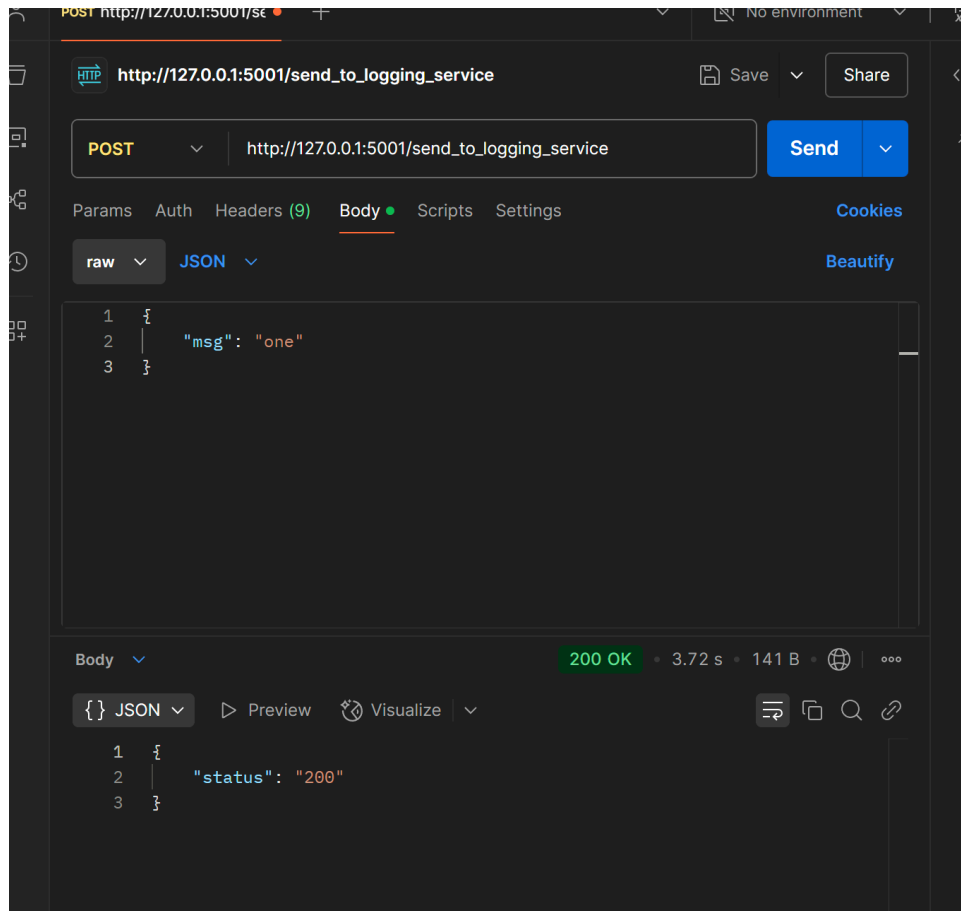
So I need to show that everything will be working after stopping some containers. As you can see, the service on the consul is stopped as well.



Same thing with the message service:




Then I tried to push five messages using Postman:



Here are some logs from the logging service:

Containers / hm4-logging_service_3-1



5d454925f3a0

hm4-logging_service_3:latest

5004:5004

hm4-logging_service_3-1

Logs	Inspect	Bind mounts	Exec	Files	Stats
2025-04-26 23:23:11	INFO:	172.21.0.5:55354	-	"GET /health HTTP/1.1"	200 OK
2025-04-26 23:23:21	INFO:	172.21.0.5:49276	-	"GET /health HTTP/1.1"	200 OK
2025-04-26 23:23:31	INFO:	172.21.0.5:51438	-	"GET /health HTTP/1.1"	200 OK
2025-04-26 23:23:41	INFO:	172.21.0.5:41394	-	"GET /health HTTP/1.1"	200 OK
2025-04-26 23:23:51	INFO:	172.21.0.5:60294	-	"GET /health HTTP/1.1"	200 OK
2025-04-26 23:24:01	INFO:	172.21.0.5:47764	-	"GET /health HTTP/1.1"	200 OK
2025-04-26 23:24:11	INFO:	172.21.0.5:60242	-	"GET /health HTTP/1.1"	200 OK
2025-04-26 23:24:21	INFO:	172.21.0.5:51794	-	"GET /health HTTP/1.1"	200 OK
2025-04-26 23:24:31	INFO:	172.21.0.5:34934	-	"GET /health HTTP/1.1"	200 OK
2025-04-26 23:24:41	INFO:	172.21.0.5:48076	-	"GET /health HTTP/1.1"	200 OK
2025-04-26 23:24:51	INFO:	172.21.0.5:55310	-	"GET /health HTTP/1.1"	200 OK
2025-04-26 23:25:01	INFO:	172.21.0.5:52906	-	"GET /health HTTP/1.1"	200 OK
2025-04-26 23:25:11	INFO:	172.21.0.5:33048	-	"GET /health HTTP/1.1"	200 OK
2025-04-26 23:25:21	INFO:	172.21.0.5:58904	-	"GET /health HTTP/1.1"	200 OK
2025-04-26 23:25:31	INFO:	172.21.0.5:36304	-	"GET /health HTTP/1.1"	200 OK
2025-04-26 23:25:41	INFO:	172.21.0.5:49916	-	"GET /health HTTP/1.1"	200 OK
2025-04-26 23:25:51	INFO:	172.21.0.5:60048	-	"GET /health HTTP/1.1"	200 OK
2025-04-26 23:26:01	INFO:	172.21.0.5:54652	-	"GET /health HTTP/1.1"	200 OK
2025-04-26 23:26:11	INFO:	172.21.0.5:36560	-	"GET /health HTTP/1.1"	200 OK
2025-04-26 23:26:21	INFO:	172.21.0.5:41706	-	"GET /health HTTP/1.1"	200 OK
2025-04-26 23:26:31	INFO:	172.21.0.5:43780	-	"GET /health HTTP/1.1"	200 OK
2025-04-26 23:26:41	INFO:	172.21.0.5:52310	-	"GET /health HTTP/1.1"	200 OK
2025-04-26 23:26:51	INFO:	172.21.0.5:48518	-	"GET /health HTTP/1.1"	200 OK
2025-04-26 23:27:01	INFO:	172.21.0.5:48498	-	"GET /health HTTP/1.1"	200 OK
2025-04-26 23:27:11	INFO:	172.21.0.5:35984	-	"GET /health HTTP/1.1"	200 OK
2025-04-26 23:27:21	INFO:	172.21.0.5:54356	-	"GET /health HTTP/1.1"	200 OK
2025-04-26 23:27:31	INFO:	172.21.0.5:53132	-	"GET /health HTTP/1.1"	200 OK
2025-04-26 23:27:41	INFO:	172.21.0.5:41562	-	"GET /health HTTP/1.1"	200 OK
2025-04-26 23:27:51	INFO:	172.21.0.5:52194	-	"GET /health HTTP/1.1"	200 OK
2025-04-26 23:28:01	INFO:	172.21.0.5:37694	-	"GET /health HTTP/1.1"	200 OK
2025-04-26 23:28:11	INFO:	172.21.0.5:48072	-	"GET /health HTTP/1.1"	200 OK
2025-04-26 23:28:21	INFO:	172.21.0.5:34902	-	"GET /health HTTP/1.1"	200 OK
2025-04-26 23:28:31	INFO:	172.21.0.5:47658	-	"GET /health HTTP/1.1"	200 OK
2025-04-26 23:28:41	INFO:	172.21.0.5:37568	-	"GET /health HTTP/1.1"	200 OK
2025-04-26 23:28:51	INFO:	172.21.0.5:33704	-	"GET /health HTTP/1.1"	200 OK
2025-04-26 23:29:01	INFO:	172.21.0.5:42510	-	"GET /health HTTP/1.1"	200 OK
2025-04-26 23:29:11	Saved message: one				
2025-04-26 23:29:11	INFO:	172.21.0.15:55334	-	"POST /fetching_message HTTP/1.1"	200 OK
2025-04-26 23:29:11	INFO:	172.21.0.5:40048	-	"GET /health HTTP/1.1"	200 OK
2025-04-26 23:29:21	INFO:	172.21.0.5:42820	-	"GET /health HTTP/1.1"	200 OK
2025-04-26 23:29:32	INFO:	172.21.0.5:43648	-	"GET /health HTTP/1.1"	200 OK
2025-04-26 23:29:42	INFO:	172.21.0.5:58352	-	"GET /health HTTP/1.1"	200 OK
2025-04-26 23:29:52	INFO:	172.21.0.5:47044	-	"GET /health HTTP/1.1"	200 OK
2025-04-26 23:30:02	INFO:	172.21.0.5:52012	-	"GET /health HTTP/1.1"	200 OK

and message servive:

```
2025-04-26 23:29:09 INFO: 172.21.0.5:33668 - "GET /health HTTP/1.1" 200 OK
2025-04-26 23:29:11 Starting consumer fd71df0fe4b1 with message: one
2025-04-26 23:29:19 INFO: 172.21.0.5:45744 - "GET /health HTTP/1.1" 200 OK
2025-04-26 23:29:29 INFO: 172.21.0.5:54888 - "GET /health HTTP/1.1" 200 OK
2025-04-26 23:29:39 INFO: 172.21.0.5:54714 - "GET /health HTTP/1.1" 200 OK
2025-04-26 23:29:49 INFO: 172.21.0.5:41778 - "GET /health HTTP/1.1" 200 OK
2025-04-26 23:29:59 INFO: 172.21.0.5:53858 - "GET /health HTTP/1.1" 200 OK
2025-04-26 23:30:09 INFO: 172.21.0.5:40156 - "GET /health HTTP/1.1" 200 OK
2025-04-26 23:30:19 INFO: 172.21.0.5:41004 - "GET /health HTTP/1.1" 200 OK
```

When I have tried to get messages, It returned all of them:

The screenshot shows a web browser interface for a REST client. The URL bar displays `GET http://127.0.0.1:5001/get`. The main area shows the request details for `http://127.0.0.1:5001/get_resulted_messages` with a `GET` method. The response is displayed in the `Body` tab, showing a `200 OK` status, a response time of `1.39 s`, and a size of `196 B`. The response body is a JSON object:

```
{  "all_msgs": "three, five, two, one, four\none, two, three, four, five"}
```

Here are the logs from the consul:

```
25-04-26 23:31:59 2025-04-26T20:31:59.726Z [DEBUG] agent: check status updated: check-service:messages-1a612c93 status=passing
25-04-26 23:31:59 2025-04-26T20:31:59.771Z [DEBUG] agent: http: Request finished: method=GET url=/v1/health/service/logging?passing=true from=172.21.0.15:38870 latency="567.192µs"
25-04-26 23:31:59 2025-04-26T20:31:59.781Z [DEBUG] agent: http: Request finished: method=GET url=/v1/health/service/messages?passing=true from=172.21.0.15:38882 latency=3.649998ms
25-04-26 23:32:00 2025-04-26T20:32:00.371Z [DEBUG] agent: check status updated: check-service:facade-9d7ca5d9 status=passing
```

Also there are some logs which service which messages got:

One service:

```
2025-04-26 23:29:01 INFO: 172.21.0.5:42910 - "GET /health HTTP/1.1" 200 OK
2025-04-26 23:29:11 Saved message: one
2025-04-26 23:29:11 INFO: 172.21.0.15:55334 - "POST /fetching_message HTTP/1.1" 200 OK
2025-04-26 23:29:11 INFO: 172.21.0.5:40048 - "GET /health HTTP/1.1" 200 OK
2025-04-26 23:29:21 INFO: 172.21.0.5:42820 - "GET /health HTTP/1.1" 200 OK
2025-04-26 23:29:32 INFO: 172.21.0.5:43648 - "GET /health HTTP/1.1" 200 OK
2025-04-26 23:29:42 INFO: 172.21.0.5:58352 - "GET /health HTTP/1.1" 200 OK
2025-04-26 23:29:52 INFO: 172.21.0.5:47044 - "GET /health HTTP/1.1" 200 OK
2025-04-26 23:30:02 INFO: 172.21.0.5:52012 - "GET /health HTTP/1.1" 200 OK
2025-04-26 23:30:12 INFO: 172.21.0.5:36326 - "GET /health HTTP/1.1" 200 OK
2025-04-26 23:30:22 INFO: 172.21.0.5:34480 - "GET /health HTTP/1.1" 200 OK
2025-04-26 23:30:32 INFO: 172.21.0.5:39844 - "GET /health HTTP/1.1" 200 OK
2025-04-26 23:30:42 INFO: 172.21.0.5:43916 - "GET /health HTTP/1.1" 200 OK
2025-04-26 23:30:52 INFO: 172.21.0.5:49882 - "GET /health HTTP/1.1" 200 OK
2025-04-26 23:31:02 INFO: 172.21.0.5:33076 - "GET /health HTTP/1.1" 200 OK
2025-04-26 23:31:12 INFO: 172.21.0.5:51544 - "GET /health HTTP/1.1" 200 OK
2025-04-26 23:31:22 INFO: 172.21.0.5:55186 - "GET /health HTTP/1.1" 200 OK
2025-04-26 23:31:23 Saved message: two
2025-04-26 23:31:23 INFO: 172.21.0.15:38772 - "POST /fetching_message HTTP/1.1" 200 OK
2025-04-26 23:31:32 INFO: 172.21.0.5:49316 - "GET /health HTTP/1.1" 200 OK
2025-04-26 23:31:33 Saved message: four
2025-04-26 23:31:33 INFO: 172.21.0.15:46746 - "POST /fetching_message HTTP/1.1" 200 OK
2025-04-26 23:31:39 Saved message: five
2025-04-26 23:31:39 INFO: 172.21.0.15:30266 - "POST /fetching_message HTTP/1.1" 200 OK
```

Another service:

```
5-04-26 23:31:15 INFO: 172.21.0.5:32844 - "GET /health HTTP/1.1" 200 OK
5-04-26 23:31:25 INFO: 172.21.0.5:54186 - "GET /health HTTP/1.1" 200 OK
5-04-26 23:31:28 Saved message: three
5-04-26 23:31:28 INFO: 172.21.0.15:38328 - "POST /fetching_message HTTP/1.1" 200 OK
5-04-26 23:31:35 INFO: 172.21.0.5:59144 - "GET /health HTTP/1.1" 200 OK
5-04-26 23:31:45 INFO: 172.21.0.5:41678 - "GET /health HTTP/1.1" 200 OK
```