

[https://github.com/karyna-volokhatiuk/APZ\\_labs/tree/micro\\_hazelcast](https://github.com/karyna-volokhatiuk/APZ_labs/tree/micro_hazelcast)

## Запускаємо 3 ноди хейзелкасту і Management center:

```
karyna@karyna: ~ 50x33
2023-04-01 22:01:30,095 [ INFO] [main] [c.h.c.LifecycleService]: [172.17.0.2]:5701 [dev] [5.2.2] [172.17.0.2]:5701 is STARTED
2023-04-01 22:01:30,419 [ INFO] [hz.recursing_chandrakehar.IO.thread-in-0] [c.h.i.s.t.TcpServerConnection]: [172.17.0.2]:5701 [dev] [5.2.2] Initializing new cluster connection between /172.17.0.2:5701 and /172.17.0.3:55449
2023-04-01 22:01:31,280 [ INFO] [hz.recursing_chandrakehar.IO.thread-in-1] [c.h.i.s.t.TcpServerConnection]: [172.17.0.2]:5701 [dev] [5.2.2] Initializing new cluster connection between /172.17.0.2:5701 and /172.17.0.4:51779
2023-04-01 22:01:36,368 [ INFO] [hz.recursing_chandrakehar.priority-generic-operation.thread-0] [c.h.i.c.ClusterService]: [172.17.0.2]:5701 [dev] [5.2.2]
Members {size:3, ver:3} [
  Member [172.17.0.2]:5701 - fa816968-d13f-4c67-87a6-f32c33a43130
  Member [172.17.0.3]:5701 - 7a399187-bec1-46a3-8ceb-cafd777477bb
  Member [172.17.0.4]:5701 - 0bb23dc0-5f69-4ebc-b64f-d163952b2bbc
]
2023-04-01 22:01:37,444 [ INFO] [hz.recursing_chandrakehar.generic-operation.thread-2] [c.h.i.p.i.PartitionStateManager]: [172.17.0.2]:5701 [dev] [5.2.2] Initializing cluster partition table arrangement...

karyna@karyna: ~ 75x33
ics.enabled=true to the JVM arguments.
2023-04-01 22:01:28,682 [ INFO] [main] [c.h.c.LifecycleService]: [172.17.0.3]:5701 [dev] [5.2.2] [172.17.0.3]:5701 is STARTING
2023-04-01 22:01:30,391 [ INFO] [main] [c.h.i.c.L.MulticastJoiner]: [172.17.0.3]:5701 [dev] [5.2.2] Trying to join to discovered node: [172.17.0.2]:5701
2023-04-01 22:01:30,423 [ INFO] [hz.blissful_jennings.IO.thread-in-0] [c.h.i.s.t.TcpServerConnection]: [172.17.0.3]:5701 [dev] [5.2.2] Initializing new cluster connection between /172.17.0.3:55449 and /172.17.0.2:5701
2023-04-01 22:01:36,379 [ INFO] [hz.blissful_jennings.generic-operation.thread-2] [c.h.i.c.ClusterService]: [172.17.0.3]:5701 [dev] [5.2.2]
Members {size:3, ver:3} [
  Member [172.17.0.2]:5701 - fa816968-d13f-4c67-87a6-f32c33a43130
  Member [172.17.0.3]:5701 - 7a399187-bec1-46a3-8ceb-cafd777477bb
  Member [172.17.0.4]:5701 - 0bb23dc0-5f69-4ebc-b64f-d163952b2bbc
]
2023-04-01 22:01:36,381 [ INFO] [hz.blissful_jennings.cached.thread-4] [c.h.i.s.t.TcpServerConnection]: [172.17.0.3]:5701 [dev] [5.2.2] Connecting to /172.17.0.4:5701, timeout: 10000, bind-any: true
2023-04-01 22:01:36,385 [ INFO] [hz.blissful_jennings.IO.thread-in-1] [c.h.i.s.t.TcpServerConnection]: [172.17.0.3]:5701 [dev] [5.2.2] Initializing new cluster connection between /172.17.0.3:55449 and /172.17.0.4:5701
2023-04-01 22:01:36,386 [ INFO] [hz.blissful_jennings.IO.thread-in-2] [c.h.i.s.t.TcpServerConnection]: [172.17.0.3]:5701 [dev] [5.2.2] Initializing new cluster connection between /172.17.0.3:5701 and /172.17.0.4:33375
2023-04-01 22:01:37,400 [ INFO] [main] [c.h.j.i.JobCoordinationService]: [172.17.0.3]:5701 [dev] [5.2.2] Jet started scanning for jobs
2023-04-01 22:01:37,408 [ INFO] [main] [c.h.c.LifecycleService]: [172.17.0.3]:5701 [dev] [5.2.2] [172.17.0.3]:5701 is STARTED

karyna@karyna: ~ 73x33
nostics.enabled=true to the JVM arguments.
2023-04-01 22:01:31,105 [ INFO] [main] [c.h.c.LifecycleService]: [172.17.0.4]:5701 [dev] [5.2.2] [172.17.0.4]:5701 is STARTING
2023-04-01 22:01:31,243 [ INFO] [main] [c.h.i.c.L.MulticastJoiner]: [172.17.0.4]:5701 [dev] [5.2.2] Trying to join to discovered node: [172.17.0.2]:5701
2023-04-01 22:01:31,283 [ INFO] [hz.modest_fermat.IO.thread-in-0] [c.h.i.s.t.TcpServerConnection]: [172.17.0.4]:5701 [dev] [5.2.2] Initializing new cluster connection between /172.17.0.4:51779 and /172.17.0.2:5701
2023-04-01 22:01:36,381 [ INFO] [hz.modest_fermat.priority-generic-operation.thread-0] [c.h.i.c.ClusterService]: [172.17.0.4]:5701 [dev] [5.2.2]
Members {size:3, ver:3} [
  Member [172.17.0.2]:5701 - fa816968-d13f-4c67-87a6-f32c33a43130
  Member [172.17.0.3]:5701 - 7a399187-bec1-46a3-8ceb-cafd777477bb
  Member [172.17.0.4]:5701 - 0bb23dc0-5f69-4ebc-b64f-d163952b2bbc
]
2023-04-01 22:01:36,383 [ INFO] [hz.modest_fermat.IO.thread-in-1] [c.h.i.s.t.TcpServerConnection]: [172.17.0.4]:5701 [dev] [5.2.2] Initializing new cluster connection between /172.17.0.4:5701 and /172.17.0.3:55445
2023-04-01 22:01:36,383 [ INFO] [hz.modest_fermat.cached.thread-4] [c.h.i.s.t.TcpServerConnection]: [172.17.0.4]:5701 [dev] [5.2.2] Connecting to /172.17.0.3:5701, timeout: 10000, bind-any: true
2023-04-01 22:01:36,388 [ INFO] [hz.modest_fermat.IO.thread-in-2] [c.h.i.s.t.TcpServerConnection]: [172.17.0.4]:5701 [dev] [5.2.2] Initializing new cluster connection between /172.17.0.4:33375 and /172.17.0.3:5701
2023-04-01 22:01:37,402 [ INFO] [main] [c.h.j.i.JobCoordinationService]: [172.17.0.4]:5701 [dev] [5.2.2] Jet started scanning for jobs
2023-04-01 22:01:37,411 [ INFO] [main] [c.h.c.LifecycleService]: [172.17.0.4]:5701 [dev] [5.2.2] [172.17.0.4]:5701 is STARTED

karyna@karyna: ~ 203x20
at java.lang.Thread.run(Thread.java:833) ~[?:?]
at com.hazelcast.internal.util.executor.HazelCastManagedThread.executeRun(HazelCastManagedThread.java:76) ~[hazelcast-enterprise-5.2.1.jar!/:5.2.1]
at com.hazelcast.internal.util.executor.HazelCastManagedThread.run(HazelCastManagedThread.java:102) ~[hazelcast-enterprise-5.2.1.jar!/:5.2.1]
2023-04-01 22:01:20,044 [ INFO] [MC-Client-dev.lifecycle-1] [c.h.w.s.MCClientManager]: MC Client for cluster dev shut down.
karyna@karyna:~$ docker run -p 8088:8080 hazelcast/management-center
Container support enabled. Using automatic heap sizing. JVM will use up to 80% of the memory limit of the host.
+ exec java -server -Dloader.path=/opt/hazelcast/management-center/bin/user-lib/* -add-opens java.base/java.lang=ALL-UNNAMED -Dhazelcast.mc.home=/data -Djava.net.preferIPv4Stack=true -XX:+UseContainerSupport -XX:MaxRAMPercentage=80 -cp /opt/hazelcast/management-center/bin/./hazelcast-management-center-5.2.1.jar org.springframework.boot.loader.PropertiesLauncher
2023-04-01 22:01:42,383 [ INFO] [main] [c.h.w.MCApplication]: Starting MCApplication v5.2.1 using Java 17.0.6 on 1a37d94e8849 with PID 1 (/opt/hazelcast/management-center/hazelcast-management-center-5.2.1.jar started by hazelcast in /opt/hazelcast/management-center)
2023-04-01 22:01:42,392 [ INFO] [main] [c.h.w.MCApplication]: No active profile set, falling back to 1 default profile: 'default'
2023-04-01 22:01:44,992 [ INFO] [main] [c.h.w.c.SqlDbConfig]: Checking DB for required migrations.
2023-04-01 22:01:45,956 [ INFO] [main] [c.h.w.c.SqlDbConfig]: Number of applied DB migrations: 19.
2023-04-01 22:01:46,843 [ INFO] [main] [c.h.w.s.i.DisableLoginStrategy]: Login will be disabled for 5 seconds after 3 failed login attempts. For every 3 consecutive failed login attempts, disable period will be multiplied by 10.
2023-04-01 22:01:49,239 [ INFO] [main] [c.h.w.MCApplication]: Started MCApplication in 7.564 seconds (JVM running for 8.812)
2023-04-01 22:01:49,257 [ INFO] [AsyncExecutor-1] [c.h.w.MCApplication]: Hazelcast Management Center successfully started at http://localhost:8080
2023-04-01 22:01:49,271 [ INFO] [AsyncExecutor-2] [c.h.w.s.ClusterManager]: Connecting to 0 enabled cluster(s) on startup.
2023-04-01 22:01:49,274 [ INFO] [AsyncExecutor-1] [c.h.w.MCApplication]: Hazelcast Management Center 5.2.1 (20221201 - f06f4a4), Hazelcast client version: 5.2.1, embedded Jetty version: 9.4.49.v20220914
```



dev



State:



Safe Members: 3/3



Clients: 0



Streaming and SQL enabled

[VIEW CLUSTER](#)



# Заныскаемо facade service, messages service i 3 logging services

karyna@karyna: ~/Documents/APZ\_labs/logging\_service/cmake-build-release-gcc

karyna@karyna:~/Documents/APZ\_labs/facade\_service/cmake-build-release-gcc 100x9

karyna@karyna:~/Documents/APZ\_labs/facade\_service/cmake-build-release-gcc\$ ./facade\_service

[2023-04-02 01:03:44.781] [info] Creating server

[2023-04-02 01:03:44.781] [info] Port: 8080

[2023-04-02 01:03:44.781] [info] Creating a resource

[2023-04-02 01:03:44.781] [info] Creating FacadeService... Messages service: ip = 127.0.0.1, port = 8081. Logging service: ip = 127.0.0.1, ports: 8082, 8083, 8084

[2023-04-02 01:03:44.782] [info] Start server

karyna@karyna:~/Documents/APZ\_labs/messages\_service/cmake-build-debug 100x9

karyna@karyna:~/Documents/APZ\_labs/messages\_service/cmake-build-debug\$ ./messages\_service

[2023-04-02 01:03:46.196] [info] Creating server

[2023-04-02 01:03:46.196] [info] Port: 8081

[2023-04-02 01:03:46.196] [info] Creating a resource

[2023-04-02 01:03:46.196] [info] Register a resource

[2023-04-02 01:03:46.196] [info] Start server

karyna@karyna:~/Documents/APZ\_labs/logging\_service/cmake-build-release-gcc 70x44

karyna@karyna:~/Documents/APZ\_labs/logging\_service/cmake-build-release-gcc\$ ./logging\_service 8082

[2023-04-02 01:03:47.718] [info] Creating server

[2023-04-02 01:03:47.718] [info] Port: 8082

[2023-04-02 01:03:47.718] [info] Creating a resource

02/04/2023 01:03:47.719 INFO: [140428905457216] hz.client\_1 [dev] [5.2.0] (NOT\_FOUND:NOT\_FOUND) LifecycleService::LifecycleEvent Client (2die3ac5-b42b-4962-a85c-cca41ca3f1) is STARTING

02/04/2023 01:03:47.719 INFO: [140428905457216] hz.client\_1 [dev] [5.2.0] (NOT\_FOUND:NOT\_FOUND) LifecycleService::LifecycleEvent STARTING

02/04/2023 01:03:47.719 INFO: [140428905457216] hz.client\_1 [dev] [5.2.0] LifecycleService::LifecycleEvent STARTED

02/04/2023 01:03:47.723 INFO: [140428905457216] hz.client\_1 [dev] [5.2.0] Trying to connect to Address[127.0.0.1:5701].

02/04/2023 01:03:47.726 INFO: [140428905457216] hz.client\_1 [dev] [5.2.0] LifecycleService::LifecycleEvent CLIENT\_CONNECTED

02/04/2023 01:03:47.726 INFO: [140428905457216] hz.client\_1 [dev] [5.2.0] Authenticated with server Address[172.17.0.2:5701]:fa816968-d13f-4c67-87a6-f32c33a43130, server version: 5.2.2, local address: Address[172.17.0.2:5701]. Connection[alive=1, connection id=1, remote endpoint=Address[172.17.0.2:5701], last\_read\_time=2023-04-02 01:03:47.725, last\_write\_time=2023-04-02 01:03:47.724, closedTime=never, connected server version=5.2.2}

02/04/2023 01:03:47.728 INFO: [140428535797312] hz.client\_1 [dev] [5.2.0]

Members [3] {

Member[172.17.0.4]:5701 - 0bb23dc0-5f69-4ebc-b64f-d163952b2bbc

Member[172.17.0.3]:5701 - 7a399187-bec1-46a3-8ceb-cafd777477bb

Member[172.17.0.2]:5701 - fa816968-d13f-4c67-87a6-f32c33a43130

02/04/2023 01:03:49.401 INFO: [140309010744896] hz.client\_1 [dev] [5.2.0] Trying to connect to Address[172.17.0.4:5701].

02/04/2023 01:03:49.403 INFO: [140309010744896] hz.client\_1 [dev] [5.2.0] Authenticated with server Address[172.17.0.4:5701]:0bb23dc0-5f69-4ebc-b64f-d163952b2bbc, server version: 5.2.2, local address: Address[172.17.0.1:43800]. Connection[alive=1, connection id=2, remote endpoint=Address[172.17.0.4:5701], last\_read\_time=2023-04-02 01:03:49.403, last\_write\_time=2023-04-02 01:03:49.401, closedTime=never, connected server version=5.2.2}

02/04/2023 01:03:49.403 INFO: [140309010744896] hz.client\_1 [dev] [5.2.0] Trying to connect to Address[172.17.0.3:5701].

02/04/2023 01:03:49.406 INFO: [140309010744896] hz.client\_1 [dev] [5.2.0] Authenticated with server Address[172.17.0.3:5701]:7a399187-bec1-46a3-8ceb-cafd777477bb, server version: 5.2.2, local address: Address[172.17.0.1:43800]. Connection[alive=1, connection id=3, remote endpoint=Address[172.17.0.3:5701], last\_read\_time=2023-04-02 01:03:49.406, last\_write\_time=2023-04-02 01:03:49.404, closedTime=never, connected server version=5.2.2}

02/04/2023 01:03:50.896 INFO: [140286678705728] hz.client\_1 [dev] [5.2.0] Trying to connect to Address[172.17.0.4:5701].

02/04/2023 01:03:50.898 INFO: [140286678705728] hz.client\_1 [dev] [5.2.0] Authenticated with server Address[172.17.0.4:5701]:0bb23dc0-5f69-4ebc-b64f-d163952b2bbc, server version: 5.2.2, local address: Address[172.17.0.1:43800]. Connection[alive=1, connection id=1, remote endpoint=Address[172.17.0.4:5701], last\_read\_time=2023-04-02 01:03:50.898, last\_write\_time=2023-04-02 01:03:50.897, closedTime=never, connected server version=5.2.2}

02/04/2023 01:03:50.898 INFO: [140286678705728] hz.client\_1 [dev] [5.2.0] Trying to connect to Address[172.17.0.3:5701].

02/04/2023 01:03:50.900 INFO: [140286678705728] hz.client\_1 [dev] [5.2.0] Authenticated with server Address[172.17.0.3:5701]:7a399187-bec1-46a3-8ceb-cafd777477bb, server version: 5.2.2, local address: Address[172.17.0.1:43800]. Connection[alive=1, connection id=2, remote endpoint=Address[172.17.0.3:5701], last\_read\_time=2023-04-02 01:03:50.899, last\_write\_time=2023-04-02 01:03:50.897, closedTime=never, connected server version=5.2.2}

karyna@karyna:~/Documents/APZ\_labs/logging\_service/cmake-build-release-gcc 70x44

karyna@karyna:~/Documents/APZ\_labs/logging\_service/cmake-build-release-gcc\$ ./logging\_service 8084

[2023-04-02 01:03:50.891] [info] Creating server

[2023-04-02 01:03:50.891] [info] Port: 8084

[2023-04-02 01:03:50.891] [info] Creating a resource

02/04/2023 01:03:50.892 INFO: [140286678705728] hz.client\_1 [dev] [5.2.0] (NOT\_FOUND:NOT\_FOUND) LifecycleService::LifecycleEvent Client (83e324be-2975-48cd-80f2-41d49d615e2e) is STARTING

02/04/2023 01:03:50.892 INFO: [140286678705728] hz.client\_1 [dev] [5.2.0] (NOT\_FOUND:NOT\_FOUND) LifecycleService::LifecycleEvent STARTING

02/04/2023 01:03:50.892 INFO: [140286678705728] hz.client\_1 [dev] [5.2.0] LifecycleService::LifecycleEvent STARTED

02/04/2023 01:03:50.894 INFO: [140286678705728] hz.client\_1 [dev] [5.2.0] Trying to connect to Address[127.0.0.1:5701].

02/04/2023 01:03:50.896 INFO: [140286678705728] hz.client\_1 [dev] [5.2.0] LifecycleService::LifecycleEvent CLIENT\_CONNECTED

02/04/2023 01:03:50.896 INFO: [140286678705728] hz.client\_1 [dev] [5.2.0] Authenticated with server Address[172.17.0.2:5701]:fa816968-d13f-4c67-87a6-f32c33a43130, server version: 5.2.2, local address: Address[172.17.0.1:42212]. Connection[alive=1, connection id=1, remote endpoint=Address[172.17.0.2:5701], last\_read\_time=2023-04-02 01:03:50.896, last\_write\_time=2023-04-02 01:03:50.894, closedTime=never, connected server version=5.2.2}

02/04/2023 01:03:50.896 INFO: [140286306936384] hz.client\_1 [dev] [5.2.0]

Members [3] {

Member[172.17.0.4]:5701 - 0bb23dc0-5f69-4ebc-b64f-d163952b2bbc

Member[172.17.0.3]:5701 - 7a399187-bec1-46a3-8ceb-cafd777477bb

Member[172.17.0.2]:5701 - fa816968-d13f-4c67-87a6-f32c33a43130

02/04/2023 01:03:50.896 INFO: [140286678705728] hz.client\_1 [dev] [5.2.0] Trying to connect to Address[172.17.0.4:5701].

02/04/2023 01:03:50.898 INFO: [140286678705728] hz.client\_1 [dev] [5.2.0] Authenticated with server Address[172.17.0.4:5701]:0bb23dc0-5f69-4ebc-b64f-d163952b2bbc, server version: 5.2.2, local address: Address[172.17.0.1:43800]. Connection[alive=1, connection id=1, remote endpoint=Address[172.17.0.4:5701], last\_read\_time=2023-04-02 01:03:50.898, last\_write\_time=2023-04-02 01:03:50.897, closedTime=never, connected server version=5.2.2}

02/04/2023 01:03:50.898 INFO: [140286678705728] hz.client\_1 [dev] [5.2.0] Trying to connect to Address[172.17.0.3:5701].

02/04/2023 01:03:50.900 INFO: [140286678705728] hz.client\_1 [dev] [5.2.0] Authenticated with server Address[172.17.0.3:5701]:7a399187-bec1-46a3-8ceb-cafd777477bb, server version: 5.2.2, local address: Address[172.17.0.1:43800]. Connection[alive=1, connection id=2, remote endpoint=Address[172.17.0.3:5701], last\_read\_time=2023-04-02 01:03:50.899, last\_write\_time=2023-04-02 01:03:50.897, closedTime=never, connected server version=5.2.2}

Додаємо 10 повідомлень

Тут приклад додавання першого повідомлення

```
POST http://127.0.0.1:8080/facade-service
Content-Type: application/json

{"msg1": "msg1"}
###
```

```
POST http://127.0.0.1:8080/facade-service
```

Show Request

```
HTTP/1.1 200 OK
```

```
Date: Sat, 01 Apr 2023 22:04:29 GMT
```

```
Content-Type: text/plain
```

```
Content-Length: 0
```

```
<Response body is empty>
```

```
Response code: 200 (OK); Time: 111ms (111 ms); Content length: 0 bytes (0 B)
```



# Логи після додавання 10 повідомлень

```
karyna@karyna: ~/Documents/APZ_labs/facade_service/cmake-build-release-gcc
[2023-04-02 01:06:44.849] [Info] Received POST request by FacadeController
[2023-04-02 01:06:44.850] [Info] Content of request:
[2023-04-02 01:06:44.850] [Info] Adding message: uuid = 34c2b823-2dd4-489c-84f2-faed500464a8 text = "msg10"
[2023-04-02 01:06:44.850] [Info] Sending POST request to chosen logging service: url = http://127.0.0.1:8083/logging-service
[2023-04-02 01:06:44.851] [Info] Response of logging service:
[2023-04-02 01:06:44.852] [Info] Sending a response:

karyna@karyna: ~/Documents/APZ_labs/messages_service/cmake-build-debug100x9
[2023-04-02 01:03:46.196] [Info] Creating server
[2023-04-02 01:03:46.196] [Info] Port: 8081
[2023-04-02 01:03:46.196] [Info] Creating a resource
[2023-04-02 01:03:46.196] [Info] Register a resource
[2023-04-02 01:03:46.196] [Info] Start server

karyna@karyna: ~/Documents/APZ_labs/logging_service/cmake-build-release-gcc70x44
[2023-04-02 01:03:47.731] INFO: [140428905457216] hz.client_1 [dev] [5.2.0] Trying to connect to Address[172.17.0.3:5701]
[2023-04-02 01:03:47.735] INFO: [140428905457216] hz.client_1 [dev] [5.2.0] Authenticated with server Address[172.17.0.3:5701]:7a399187-bec1-46a3-8ceb-cafd777477bb, server version: 5.2.2, local address: Address[172.17.0.1:43382]. Connection[alive=1, connection id=3, remote endpoint=Address[172.17.0.3:5701], last_read_time=2023-04-02 01:03:47.735, last_write_time=2023-04-02 01:03:47.731, closedTime=never, connected server version=5.2.2]
[2023-04-02 01:03:47.731] INFO: [140428905457216] hz.client_1 [dev] [5.2.0] Trying to connect to Address[172.17.0.3:5701]
[2023-04-02 01:03:47.735] INFO: [140428905457216] hz.client_1 [dev] [5.2.0] Authenticated with server Address[172.17.0.3:5701]:7a399187-bec1-46a3-8ceb-cafd777477bb, server version: 5.2.2, local address: Address[172.17.0.1:43382]. Connection[alive=1, connection id=3, remote endpoint=Address[172.17.0.3:5701], last_read_time=2023-04-02 01:03:47.735, last_write_time=2023-04-02 01:03:47.731, closedTime=never, connected server version=5.2.2]
[2023-04-02 01:03:47.742] [Info] Creating HazelcastLoggingService
[2023-04-02 01:03:47.742] [Info] Register a resource
[2023-04-02 01:03:47.742] [Info] Start server
[2023-04-02 01:06:03.076] [Info] Received POST request by LoggingController
[2023-04-02 01:06:03.076] [Info] Add message to HazelcastLoggingService: uuid = fce65c1-37fc-475e-b786-69ecc1455f92, text = "msg3"
[2023-04-02 01:06:03.085] [Info] Message was added
[2023-04-02 01:06:03.085] [Info] All content was added to a map
[2023-04-02 01:06:36.675] [Info] Received POST request by LoggingController
[2023-04-02 01:06:36.675] [Info] Add message to HazelcastLoggingService: uuid = fce65c1-37fc-475e-b786-69ecc1455f92, text = "msg3"
[2023-04-02 01:06:36.677] [Info] Message was added
[2023-04-02 01:06:36.677] [Info] All content was added to a map
[2023-04-02 01:06:39.720] [Info] Received POST request by LoggingController
[2023-04-02 01:06:39.720] [Info] Add message to HazelcastLoggingService: uuid = fce65c1-37fc-475e-b786-69ecc1455f92, text = "msg3"
[2023-04-02 01:06:39.721] [Info] Message was added
[2023-04-02 01:06:39.721] [Info] All content was added to a map

karyna@karyna: ~/Documents/APZ_labs/logging_service/cmake-build-release-gcc70x44
[2023-04-02 01:05:59.907] [Info] Add message to HazelcastLoggingService: uuid = 73ae096e-0ad0-4b34-995a-20b5e2b5d128, text = "msg4"
[2023-04-02 01:06:11.176] [Info] Message was added
[2023-04-02 01:06:11.176] [Info] All content was added to a map
[2023-04-02 01:06:29.935] [Info] Received POST request by LoggingController
[2023-04-02 01:06:29.935] [Info] Add message to HazelcastLoggingService: uuid = a3e242df-b8ed-4634-8d81-25566bb2466, text = "msg6"
[2023-04-02 01:06:29.937] [Info] Message was added
[2023-04-02 01:06:29.937] [Info] All content was added to a map
[2023-04-02 01:06:33.478] [Info] Received POST request by LoggingController
[2023-04-02 01:06:33.478] [Info] Add message to HazelcastLoggingService: uuid = 6bed21b3-d8a2-4086-e089-e6e5d19dc71c, text = "msg7"
[2023-04-02 01:06:33.479] [Info] Message was added
[2023-04-02 01:06:33.479] [Info] All content was added to a map
[2023-04-02 01:06:44.850] [Info] Received POST request by LoggingController
[2023-04-02 01:06:44.850] [Info] Add message to HazelcastLoggingService: uuid = 34c2b823-2dd4-489c-84f2-faed500464a8, text = "msg10"
[2023-04-02 01:06:44.851] [Info] Message was added
[2023-04-02 01:06:44.851] [Info] All content was added to a map

karyna@karyna: ~/Documents/APZ_labs/logging_service/cmake-build-release-gcc70x44
[2023-04-02 01:03:50.896] INFO: [140286678705728] hz.client_1 [dev] [5.2.0] Authenticated with server Address[172.17.0.2:5701]:fa816968-d13f-4c67-87a6-f32c33a43130, server version: 5.2.2, local address: Address[172.17.0.1:42212]. Connection[alive=1, connection id=1, remote endpoint=Address[172.17.0.2:5701], last_read_time=2023-04-02 01:03:50.896, last_write_time=2023-04-02 01:03:50.894, closedTime=never, connected server version=5.2.2]
[2023-04-02 01:03:50.896] INFO: [140286678705728] hz.client_1 [dev] [5.2.0] Trying to connect to Address[172.17.0.3:5701]
[2023-04-02 01:03:50.898] INFO: [140286678705728] hz.client_1 [dev] [5.2.0] Authenticated with server Address[172.17.0.3:5701]:7a399187-bec1-46a3-8ceb-cafd777477bb, server version: 5.2.2, local address: Address[172.17.0.1:43802]. Connection[alive=1, connection id=2, remote endpoint=Address[172.17.0.3:5701], last_read_time=2023-04-02 01:03:50.898, last_write_time=2023-04-02 01:03:50.897, closedTime=never, connected server version=5.2.2]
[2023-04-02 01:03:50.898] INFO: [140286678705728] hz.client_1 [dev] [5.2.0] Trying to connect to Address[172.17.0.3:5701]
[2023-04-02 01:03:50.900] INFO: [140286678705728] hz.client_1 [dev] [5.2.0] Authenticated with server Address[172.17.0.3:5701]:7a399187-bec1-46a3-8ceb-cafd777477bb, server version: 5.2.2, local address: Address[172.17.0.1:43802]. Connection[alive=1, connection id=3, remote endpoint=Address[172.17.0.3:5701], last_read_time=2023-04-02 01:03:50.900, last_write_time=2023-04-02 01:03:50.898, closedTime=never, connected server version=5.2.2]
[2023-04-02 01:03:50.902] [Info] Creating HazelcastLoggingService
[2023-04-02 01:03:50.902] [Info] Register a resource
[2023-04-02 01:03:50.902] [Info] Start server
[2023-04-02 01:06:25.411] [Info] Received POST request by LoggingController
[2023-04-02 01:06:25.411] [Info] Add message to HazelcastLoggingService: uuid = afef31f1-01b0-4c42-a7da-f3eeddfb23c, text = "msg5"
[2023-04-02 01:06:25.413] [Info] Message was added
[2023-04-02 01:06:25.413] [Info] All content was added to a map
```

# Розподіл по нодах

Map Statistics (In-Memory Format: BINARY)

RESET TIME

1 minute ago

→

now

Default View

⌵

🗑️

✎

+

Member ^	^ Entries	^ Gets	^ Puts	^ Removals	^ Sets	^ Entry Memory	^ Events	^ Hits
172.17.0.2:5701	2	0	2	0	0	332.00 B	0	0
172.17.0.3:5701	3	0	3	0	0	499.00 B	0	0
172.17.0.4:5701	5	0	5	0	0	830.00 B	0	0
TOTAL	10	0	10	0	0	1.62 kB	0	0

1 – 3 of 3

Rows

10

⌵

## GET запит

```
▶ GET http://127.0.0.1:8080/facade-service  
  Accept: text/html  
  ###
```

```
GET http://127.0.0.1:8080/facade-service  
  Show Request  
  
HTTP/1.1 200 OK  
Date: Sat, 01 Apr 2023 22:09:24 GMT  
Content-Type: text/plain  
Content-Length: 93  
  
"msg2" "msg4" "msg1" "msg7" "msg10" "msg8" "msg5" "msg3" "msg9" "msg6" : Not implemented yet  
  
Response code: 200 (OK); Time: 19ms (19 ms); Content length: 93 bytes (93 B)
```



# Логи після GET запиту

```
karyna@karyna: ~/Documents/APZ_labs/facade_service/cmake-build-release-gcc
[2023-04-02 01:06:44.849] [Info] Received POST request by FacadeController
[2023-04-02 01:06:44.850] [Info] Content of request:
[2023-04-02 01:06:44.850] [Info] Adding message: uuid = 34c2b823-2dd4-489c-84f2-faed500464a8 text = "msg10"
[2023-04-02 01:06:44.850] [Info] Sending POST request to chosen logging service: url = http://127.0.0.1:8083/logging-service
[2023-04-02 01:06:44.851] [Info] Response of logging service:
[2023-04-02 01:06:44.852] [Info] Sending a response:
[2023-04-02 01:09:24.401] [Info] Received GET request by FacadeController
[2023-04-02 01:09:24.401] [Info] Getting messages

karyna@karyna: ~/Documents/APZ_labs/messages_service/cmake-build-debug5 .messages_service
[2023-04-02 01:03:46.196] [Info] Creating server
[2023-04-02 01:03:46.196] [Info] Port: 8081
[2023-04-02 01:03:46.196] [Info] Creating a resource
[2023-04-02 01:03:46.196] [Info] Register a resource
[2023-04-02 01:03:46.196] [Info] Start server
[2023-04-02 01:09:24.401] [Info] Received GET request
[2023-04-02 01:09:24.401] [Info] Sending a response: Not implemented yet

karyna@karyna: ~/Documents/APZ_labs/logging_service/cmake-build-release-gcc 70x44
on[alive=1, connection id=2, remote endpoint=Address[172.17.0.4:5701], last_read_time=2023-04-02 01:03:47.730, last_write_time=2023-04-02 01:03:47.729, closedTime=never, connected server version=5.2.2]
02/04/2023 01:03:47.731 INFO: [140428905457216] hz.client_1 [dev] [5.2.0] Trying to connect to Address[172.17.0.3:5701]
02/04/2023 01:03:47.735 INFO: [140428905457216] hz.client_1 [dev] [5.2.0] Authenticated with server Address[172.17.0.3:5701]:7a399187-bec1-46a3-8ceb-cafd777477bb, server version: 5.2.2, local address: Address[172.17.0.1:43382]. Connection[alive=1, connection id=3, remote endpoint=Address[172.17.0.3:5701], last_read_time=2023-04-02 01:03:47.735, last_write_time=2023-04-02 01:03:47.731, closedTime=never, connected server version=5.2.2]
[2023-04-02 01:03:47.742] [Info] Creating HazelcastLoggingService
[2023-04-02 01:03:47.742] [Info] Register a resource
[2023-04-02 01:03:47.742] [Info] Start server
[2023-04-02 01:06:03.076] [Info] Received POST request by LoggingController
[2023-04-02 01:06:03.076] [Info] Add message to HazelcastLoggingService: uuid = fcc6e5c1-37fc-475e-b786-69ecc1455f92, text = "msg3"
[2023-04-02 01:06:03.085] [Info] Message was added
[2023-04-02 01:06:03.085] [Info] All content was added to a map
[2023-04-02 01:06:36.675] [Info] Received POST request by LoggingController
[2023-04-02 01:06:36.675] [Info] Add message to HazelcastLoggingService: uuid = dfcea883-4fa5-44fd-923e-b61503d436ff, text = "msg8"
[2023-04-02 01:06:36.677] [Info] Message was added
[2023-04-02 01:06:36.677] [Info] All content was added to a map
[2023-04-02 01:06:39.720] [Info] Received POST request by LoggingController
[2023-04-02 01:06:39.720] [Info] Add message to HazelcastLoggingService: uuid = bb5c0183-1f24-4491-b5d8-8152bffc0b43, text = "msg9"
[2023-04-02 01:06:39.721] [Info] Message was added
[2023-04-02 01:06:39.721] [Info] All content was added to a map

karyna@karyna: ~/Documents/APZ_labs/logging_service/cmake-build-release-gcc 70x44
[2023-04-02 01:03:49.409] [Info] Creating HazelcastLoggingService
[2023-04-02 01:03:49.409] [Info] Register a resource
[2023-04-02 01:03:49.409] [Info] Start server
[2023-04-02 01:04:29.846] [Info] Received POST request by LoggingController
[2023-04-02 01:04:29.846] [Info] Add message to HazelcastLoggingService: uuid = eda604e4-0c53-4293-b975-ad19a1c50476, text = "msg1"
[2023-04-02 01:04:29.952] [Info] Message was added
[2023-04-02 01:04:29.952] [Info] All content was added to a map
[2023-04-02 01:05:59.907] [Info] Received POST request by LoggingController
[2023-04-02 01:05:59.907] [Info] Add message to HazelcastLoggingService: uuid = 7cc6ae2d-b980-4e6f-870e-539a592d262e, text = "msg2"
[2023-04-02 01:05:59.985] [Info] Message was added
[2023-04-02 01:05:59.985] [Info] All content was added to a map
[2023-04-02 01:06:11.173] [Info] Received POST request by LoggingController
[2023-04-02 01:06:11.173] [Info] Add message to HazelcastLoggingService: uuid = 73ae096e-0ad0-4b34-995a-20b5e2b5d125, text = "msg4"
[2023-04-02 01:06:11.176] [Info] Message was added
[2023-04-02 01:06:11.176] [Info] All content was added to a map
[2023-04-02 01:06:29.935] [Info] Received POST request by LoggingController
[2023-04-02 01:06:29.935] [Info] Add message to HazelcastLoggingService: uuid = a3e242df-e8ed-4634-8d81-25560bb2460, text = "msg6"
[2023-04-02 01:06:29.937] [Info] Message was added
[2023-04-02 01:06:29.937] [Info] All content was added to a map
[2023-04-02 01:06:33.478] [Info] Received POST request by LoggingController
[2023-04-02 01:06:33.478] [Info] Add message to HazelcastLoggingService: uuid = 6bed21b3-d8a2-4086-a089-e6e5d19dc71d, text = "msg7"
[2023-04-02 01:06:33.479] [Info] Message was added
[2023-04-02 01:06:33.479] [Info] All content was added to a map
[2023-04-02 01:06:44.850] [Info] Received POST request by LoggingController
[2023-04-02 01:06:44.850] [Info] Add message to HazelcastLoggingService: uuid = 34c2b823-2dd4-489c-84f2-faed500464a8, text = "msg10"
[2023-04-02 01:06:44.851] [Info] Message was added
[2023-04-02 01:06:44.851] [Info] All content was added to a map

karyna@karyna: ~/Documents/APZ_labs/logging_service/cmake-build-release-gcc 70x44
6a3-8ceb-cafd777477bb, server version: 5.2.2, local address: Address[172.17.0.1:43388]. Connection[alive=1, connection id=3, remote endpoint=Address[172.17.0.3:5701], last_read_time=2023-04-02 01:03:50.900, last_write_time=2023-04-02 01:03:50.898, closedTime=never, connected server version=5.2.2]
[2023-04-02 01:03:50.902] [Info] Creating HazelcastLoggingService
[2023-04-02 01:03:50.902] [Info] Register a resource
[2023-04-02 01:03:50.902] [Info] Start server
[2023-04-02 01:06:25.411] [Info] Received POST request by LoggingController
[2023-04-02 01:06:25.411] [Info] Add message to HazelcastLoggingService: uuid = afe31f1-01b0-4c42-a7da-f3ee4dbf223c, text = "msg5"
[2023-04-02 01:06:25.413] [Info] Message was added
[2023-04-02 01:06:25.413] [Info] All content was added to a map
[2023-04-02 01:09:24.402] [Info] Received GET request by LoggingController
[2023-04-02 01:09:24.402] [Info] Creating an output string
[2023-04-02 01:09:24.402] [Info] Getting logs from HazelcastLoggingService
[2023-04-02 01:09:24.417] [Info] Got log: uuid = 7cc6ae2d-b980-4e6f-870e-539a592d262e, text = "msg2"
[2023-04-02 01:09:24.417] [Info] Got log: uuid = 73ae096e-0ad0-4b34-995a-20b5e2b5d125, text = "msg4"
[2023-04-02 01:09:24.417] [Info] Got log: uuid = eda604e4-0c53-4293-b975-ad19a1c50476, text = "msg1"
[2023-04-02 01:09:24.417] [Info] Got log: uuid = 6bed21b3-d8a2-4086-a089-e6e5d19dc71d, text = "msg7"
[2023-04-02 01:09:24.417] [Info] Got log: uuid = 34c2b823-2dd4-489c-84f2-faed500464a8, text = "msg10"
[2023-04-02 01:09:24.417] [Info] Got log: uuid = dfcea883-4fa5-44fd-923e-b61503d436ff, text = "msg8"
[2023-04-02 01:09:24.417] [Info] Got log: uuid = afe31f1-01b0-4c42-a7da-f3ee4dbf223c, text = "msg5"
[2023-04-02 01:09:24.417] [Info] Got log: uuid = fcc6e5c1-37fc-475e-b786-69ecc1455f92, text = "msg3"
[2023-04-02 01:09:24.417] [Info] Got log: uuid = bb5c0183-1f24-4491-b5d8-8152bffc0b43, text = "msg9"
[2023-04-02 01:09:24.417] [Info] Got log: uuid = a3e242df-e8ed-4634-8d81-25560bb2460, text = "msg6"
[2023-04-02 01:09:24.417] [Info] All content was added to an output string
[2023-04-02 01:09:24.417] [Info] Sending a response: "msg2" "msg4" "msg1" "msg7" "msg10" "msg8" "msg5" "msg3" "msg9" "msg6"
```

Вбиваємо один сервіс і одну ноду

Map Statistics (In-Memory Format: BINARY)

RESET TIME

1 minute ago

→

now

Default View

Member ^	^ Entries	^ Gets	^ Puts	^ Removals	^ Sets	^ Entry Memory	^ Events	^ Hits
172.17.0.2:5701	4	0	2	0	0	665.00 B	0	0
172.17.0.4:5701	6	0	5	0	0	996.00 B	0	0
TOTAL	10	0	7	0	0	1.62 kB	0	0

1 – 2 of 2

Rows

10

GET запит після вбивання одного logging сервіса і однієї ноди у мапі

```
GET http://127.0.0.1:8080/facade-service
```

Show Request

```
HTTP/1.1 200 OK
```

```
Date: Sat, 01 Apr 2023 22:12:34 GMT
```

```
Content-Type: text/plain
```

```
Content-Length: 93
```

```
"msg2" "msg7" "msg4" "msg10" "msg8" "msg1" "msg5" "msg3" "msg9" "msg6" : Not implemented yet
```

```
Response code: 200 (OK); Time: 6ms (6 ms); Content length: 93 bytes (93 B)
```



# Логи після GET запиту

```
karyna@karyna: ~/Documents/APZ_labs/logging_service/cmake-build-release-gcc

[2023-04-02 01:06:44.849] [Info] Received POST request by FacadeController
[2023-04-02 01:06:44.850] [Info] Content of request:
[2023-04-02 01:06:44.850] [Info] Adding message: uuid = 34c2b823-2dd4-489c-84f2-faed500464a8 text = "msg10"
[2023-04-02 01:06:44.850] [Info] Sending POST request to chosen logging service: url = http://127.0.0.1:8083/logging-service
[2023-04-02 01:06:44.851] [Info] Response of logging service:
[2023-04-02 01:06:44.852] [Info] Sending a response:
[2023-04-02 01:09:24.401] [Info] Received GET request by FacadeController
[2023-04-02 01:09:24.401] [Info] Getting messages

karyna@karyna: ~/Documents/APZ_labs/logging_service/cmake-build-release-gcc 70x44
02/04/2023 01:11:11.802 INFO: [140428401514048] hz.client_1 [dev] [5.2.0] Trying to connect to Address[172.17.0.3:5701]
.
02/04/2023 01:11:17.802 INFO: [140428435084864] hz.client_1 [dev] [5.2.0] Trying to connect to Address[172.17.0.3:5701]
.
02/04/2023 01:11:22.803 INFO: [140428460262976] hz.client_1 [dev] [5.2.0] Trying to connect to Address[172.17.0.3:5701]
.
02/04/2023 01:11:27.803 INFO: [140428418299456] hz.client_1 [dev] [5.2.0] Trying to connect to Address[172.17.0.3:5701]
.
02/04/2023 01:11:32.805 INFO: [140428468655680] hz.client_1 [dev] [5.2.0] Trying to connect to Address[172.17.0.3:5701]
.
02/04/2023 01:11:37.806 INFO: [140428409906752] hz.client_1 [dev] [5.2.0] Trying to connect to Address[172.17.0.3:5701]
.
02/04/2023 01:11:41.807 INFO: [140428401514048] hz.client_1 [dev] [5.2.0] Trying to connect to Address[172.17.0.3:5701]
.
02/04/2023 01:11:44.807 INFO: [140428477048384] hz.client_1 [dev] [5.2.0] Trying to connect to Address[172.17.0.3:5701]
.
02/04/2023 01:11:47.807 INFO: [140428435084864] hz.client_1 [dev] [5.2.0] Trying to connect to Address[172.17.0.3:5701]
.
02/04/2023 01:11:50.808 INFO: [140428451870272] hz.client_1 [dev] [5.2.0] Trying to connect to Address[172.17.0.3:5701]
.
02/04/2023 01:11:53.808 INFO: [140428443477568] hz.client_1 [dev] [5.2.0] Trying to connect to Address[172.17.0.3:5701]
.
02/04/2023 01:11:55.651 INFO: [140428502226496] hz.client_1 [dev] [5.2.0]

Members [2] {
    Member[172.17.0.4]:5701 - 0bb23dc0-5f69-4ebc-b64f-d163952b2bbc
    Member[172.17.0.2]:5701 - fa816968-d13f-4c67-87a6-f32c33a43130
}

[2023-04-02 01:12:34.275] [Info] Received GET request by LoggingController
[2023-04-02 01:12:34.275] [Info] Creating an output string
[2023-04-02 01:12:34.275] [Info] Getting logs from HazelcastLoggingService
[2023-04-02 01:12:34.278] [Info] Got log: uuid = 7cccae2d-b980-4e6f-879e-539a592d262e, text = "msg2"
[2023-04-02 01:12:34.278] [Info] Got log: uuid = 6bed21b3-d8a2-4086-a089-e6e5d19dc71d, text = "msg7"
[2023-04-02 01:12:34.278] [Info] Got log: uuid = 73ae096e-0ad0-4b34-995a-20b5e2b5d125, text = "msg4"
[2023-04-02 01:12:34.278] [Info] Got log: uuid = 6bed21b3-d8a2-4086-a089-e6e5d19dc71d, text = "msg7"
[2023-04-02 01:12:34.278] [Info] Got log: uuid = 34c2b823-2dd4-489c-84f2-faed500464a8, text = "msg10"
[2023-04-02 01:12:34.278] [Info] Got log: uuid = dfcea883-4fa5-44fd-923e-b61503d436ff, text = "msg8"
[2023-04-02 01:12:34.278] [Info] Got log: uuid = eda604e4-0c53-4293-b975-ad19a1c50476, text = "msg1"
[2023-04-02 01:12:34.278] [Info] Got log: uuid = afef31f1-01b0-4c42-a7da-f3eed4dbf223c, text = "msg5"
[2023-04-02 01:12:34.278] [Info] Got log: uuid = fcce65c1-37fc-475e-b786-69ecc1455f92, text = "msg3"
[2023-04-02 01:12:34.278] [Info] Got log: uuid = bb5c0183-1f24-4491-b5d8-8152bffc0b43, text = "msg9"
[2023-04-02 01:12:34.278] [Info] Got log: uuid = a3e242df-e8ed-4634-8d81-25566bbb2460, text = "msg6"
[2023-04-02 01:12:34.278] [Info] All content was added to an output string
[2023-04-02 01:12:34.278] [Info] Sending a response: "msg2" "msg7" "msg4" "msg10" "msg8" "msg1" "msg5" "msg3" "msg9" "msg6"

karyna@karyna: ~/Documents/APZ_labs/messages_service/cmake-build-debug 100x9
[2023-04-02 01:03:46.196] [Info] Port: 8081
[2023-04-02 01:03:46.196] [Info] Creating a resource
[2023-04-02 01:03:46.196] [Info] Register a resource
[2023-04-02 01:03:46.196] [Info] Start server
[2023-04-02 01:09:24.401] [Info] Received GET request
[2023-04-02 01:09:24.401] [Info] Sending a response: Not implemented yet
[2023-04-02 01:12:34.275] [Info] Received GET request
[2023-04-02 01:12:34.275] [Info] Sending a response: Not implemented yet

karyna@karyna: ~/Documents/APZ_labs/logging_service/cmake-build-release-gcc 70x44
=Address[172.17.0.3:5701], last_read_time=2023-04-02 01:03:50.900, last_write_time=2023-04-02 01:03:50.898, closedTime=never, connected server version=5.2.2]
[2023-04-02 01:03:50.902] [Info] Creating HazelcastLoggingService
[2023-04-02 01:03:50.902] [Info] Register a resource
[2023-04-02 01:03:50.902] [Info] Start server
[2023-04-02 01:06:25.411] [Info] Received POST request by LoggingController
[2023-04-02 01:06:25.411] [Info] Add message to HazelcastLoggingService: uuid = afef31f1-01b0-4c42-a7da-f3eed4dbf223c, text = "msg5"
[2023-04-02 01:06:25.413] [Info] Message was added
[2023-04-02 01:06:25.413] [Info] All content was added to a map
[2023-04-02 01:09:24.402] [Info] Received GET request by LoggingController
[2023-04-02 01:09:24.402] [Info] Creating an output string
[2023-04-02 01:09:24.402] [Info] Getting logs from HazelcastLoggingService
[2023-04-02 01:09:24.417] [Info] Got log: uuid = 7cccae2d-b980-4e6f-879e-539a592d262e, text = "msg2"
[2023-04-02 01:09:24.417] [Info] Got log: uuid = 73ae096e-0ad0-4b34-995a-20b5e2b5d125, text = "msg4"
[2023-04-02 01:09:24.417] [Info] Got log: uuid = eda604e4-0c53-4293-b975-ad19a1c50476, text = "msg1"
[2023-04-02 01:09:24.417] [Info] Got log: uuid = 6bed21b3-d8a2-4086-a089-e6e5d19dc71d, text = "msg7"
[2023-04-02 01:09:24.417] [Info] Got log: uuid = 34c2b823-2dd4-489c-84f2-faed500464a8, text = "msg10"
[2023-04-02 01:09:24.417] [Info] Got log: uuid = dfcea883-4fa5-44fd-923e-b61503d436ff, text = "msg8"
[2023-04-02 01:09:24.417] [Info] Got log: uuid = afef31f1-01b0-4c42-a7da-f3eed4dbf223c, text = "msg5"
[2023-04-02 01:09:24.417] [Info] Got log: uuid = fcce65c1-37fc-475e-b786-69ecc1455f92, text = "msg3"
[2023-04-02 01:09:24.417] [Info] Got log: uuid = bb5c0183-1f24-4491-b5d8-8152bffc0b43, text = "msg9"
[2023-04-02 01:09:24.417] [Info] Got log: uuid = a3e242df-e8ed-4634-8d81-25566bbb2460, text = "msg6"
[2023-04-02 01:09:24.417] [Info] All content was added to an output string
[2023-04-02 01:09:24.417] [Info] Sending a response: "msg2" "msg4" "msg1" "msg7" "msg10" "msg8" "msg5" "msg3" "msg9" "msg6"
^C
karyna@karyna:~/Documents/APZ_labs/logging_service/cmake-build-release-gcc$
```



Вбиваємо ще один сервіс і ще одну ноду

Map Statistics (In-Memory Format: BINARY)

RESET TIME

1 minute ago

→

now

Default View

⌵

🗑️

✎

+

Member ⌵	⌵ Entries	⌵ Gets	⌵ Puts	⌵ Removals	⌵ Sets	⌵ Entry Memory	⌵ Events	⌵ Hits
172.17.0.2:5701	10	0	2	0	0	1.62 kB	0	0
TOTAL	10	0	2	0	0	1.62 kB	0	0

1 – 1 of 1

Rows

10 ⌵

Перша спроба GET запиту була невдалою, адже тепер імовірність потрапити на робочий logging service = 1/3

```
GET http://127.0.0.1:8080/facade-service
Show Request

HTTP/1.1 200 OK
Date: Sat, 01 Apr 2023 22:14:47 GMT
Content-Type: text/plain
Content-Length: 22

: Not implemented yet

Response code: 200 (OK); Time: 5ms (5 ms); Content length: 22 bytes (22 B)
```

Але наступна спроба була вдалою

```
GET http://127.0.0.1:8080/facade-service
Show Request

HTTP/1.1 200 OK
Date: Sat, 01 Apr 2023 22:15:05 GMT
Content-Type: text/plain
Content-Length: 93

"msg2" "msg8" "msg1" "msg5" "msg7" "msg3" "msg9" "msg4" "msg6" "msg10" : Not implemented yet

Response code: 200 (OK); Time: 6ms (6 ms); Content length: 93 bytes (93 B)
```

# Логи після вдалого GET запиту

```
karyna@karyna: ~/Documents/APZ_labs/logging_service/cmake-build-release-gcc

karyna@karyna:~/Documents/APZ_labs/facade_service/cmake-build-release-gcc 100x19
[2023-04-02 01:14:47.588] [info] Getting messages from messages service
[2023-04-02 01:14:47.589] [info] Response of messages service: Not implemented yet
[2023-04-02 01:14:47.589] [info] Getting messages from logging service
[2023-04-02 01:14:47.589] [info] Sending GET request to chosen logging service: url = http://127.0.0.1:8084/logging-service
[2023-04-02 01:14:47.590] [info] Response of logging service:
[2023-04-02 01:14:47.590] [info] Sending a response: : Not implemented yet
[2023-04-02 01:15:05.921] [info] Received GET request by FacadeController
[2023-04-02 01:15:05.921] [info] Getting messages
[2023-04-02 01:15:05.921] [info] Getting messages from messages service
[2023-04-02 01:15:05.922] [info] Response of messages service: Not implemented yet
[2023-04-02 01:15:05.922] [info] Getting messages from logging service
[2023-04-02 01:15:05.922] [info] Sending GET request to chosen logging service: url = http://127.0.0.1:8083/logging-service
[2023-04-02 01:15:05.926] [info] Response of logging service: "msg2" "msg8" "msg1" "msg5" "msg7" "msg3" "msg9" "msg4" "msg6" "msg10"
[2023-04-02 01:15:05.926] [info] Sending a response: "msg2" "msg8" "msg1" "msg5" "msg7" "msg3" "msg9" "msg4" "msg6" "msg10" : Not implemented yet

karyna@karyna:~/Documents/APZ_labs/messages_service/cmake-build-debug 100x19
karyna@karyna:~/Documents/APZ_labs/messages_service/cmake-build-debug$ ./messages_service
[2023-04-02 01:03:46.196] [info] Creating server
[2023-04-02 01:03:46.196] [info] Port: 8081
[2023-04-02 01:03:46.196] [info] Creating a resource
[2023-04-02 01:03:46.196] [info] Register a resource
[2023-04-02 01:03:46.196] [info] Start server
[2023-04-02 01:09:24.401] [info] Received GET request
[2023-04-02 01:09:24.401] [info] Sending a response: Not implemented yet
[2023-04-02 01:12:34.275] [info] Received GET request
[2023-04-02 01:12:34.275] [info] Sending a response: Not implemented yet
[2023-04-02 01:14:47.589] [info] Received GET request
[2023-04-02 01:14:47.589] [info] Sending a response: Not implemented yet
[2023-04-02 01:15:05.922] [info] Received GET request
[2023-04-02 01:15:05.922] [info] Sending a response: Not implemented yet

karyna@karyna:~/Documents/APZ_labs/logging_service/cmake-build-release-gcc 70x34
02/04/2023 01:11:32.805 INFO: [140428468655680] hz.client_1 [dev] [5.2.0] Trying to connect to Address[172.17.0.3:5701]
.
02/04/2023 01:11:37.806 INFO: [140428409906752] hz.client_1 [dev] [5.2.0] Trying to connect to Address[172.17.0.3:5701]
.
02/04/2023 01:11:41.807 INFO: [140428401514048] hz.client_1 [dev] [5.2.0] Trying to connect to Address[172.17.0.3:5701]
.
02/04/2023 01:11:44.807 INFO: [140428477048384] hz.client_1 [dev] [5.2.0] Trying to connect to Address[172.17.0.3:5701]
.
02/04/2023 01:11:47.807 INFO: [140428435084864] hz.client_1 [dev] [5.2.0] Trying to connect to Address[172.17.0.3:5701]
.
02/04/2023 01:11:50.808 INFO: [140428451870272] hz.client_1 [dev] [5.2.0] Trying to connect to Address[172.17.0.3:5701]
.
02/04/2023 01:11:53.808 INFO: [140428443477568] hz.client_1 [dev] [5.2.0] Trying to connect to Address[172.17.0.3:5701]
.
02/04/2023 01:11:55.651 INFO: [140428502226496] hz.client_1 [dev] [5.2.0]
.
Members [2] {
  Member[172.17.0.4]:5701 - 0bb23dc0-5f69-4ebc-b64f-d163952b2bbc
  Member[172.17.0.2]:5701 - fa816968-d13f-4c67-87a6-f32c33a43130
}

karyna@karyna:~/Documents/APZ_labs/logging_service/cmake-build-release-gcc 70x34
[2023-04-02 01:15:05.922] [info] Received GET request by LoggingController
[2023-04-02 01:15:05.922] [info] Creating an output string
[2023-04-02 01:15:05.922] [info] Getting logs from HazelcastLoggingService
[2023-04-02 01:15:05.925] [info] Got log: uuid = 7cecae2d-b980-4e6f-870e-539a592d262e, text = "msg2"
[2023-04-02 01:15:05.925] [info] Got log: uuid = dfcea883-4fa5-44fd-923e-b61503d436ff, text = "msg8"
[2023-04-02 01:15:05.925] [info] Got log: uuid = eda604e4-0c53-4293-b975-ad19a1c50476, text = "msg1"
[2023-04-02 01:15:05.925] [info] Got log: uuid = afef31f1-01b0-4c42-a7da-f3ee4dbf223c, text = "msg5"
[2023-04-02 01:15:05.925] [info] Got log: uuid = 6bed21b3-d8a2-4086-a089-e6e5d19dc71d, text = "msg7"
[2023-04-02 01:15:05.925] [info] Got log: uuid = fcce65c1-37fc-475e-b786-69ecc1455f92, text = "msg3"
[2023-04-02 01:15:05.925] [info] Got log: uuid = bb5c0183-1f24-4491-b5d8-8152bfff0b43, text = "msg9"
[2023-04-02 01:15:05.925] [info] Got log: uuid = 73ae096e-0ad0-4b34-995a-20b5e2b5d125, text = "msg4"
[2023-04-02 01:15:05.925] [info] Got log: uuid = a3e242df-e8ed-4634-8d81-25566bbb2460, text = "msg6"
[2023-04-02 01:15:05.925] [info] Got log: uuid = 34c2b823-2dd4-489c-84f2-faed500464a8, text = "msg10"
[2023-04-02 01:15:05.925] [info] All content was added to an output string
[2023-04-02 01:15:05.925] [info] Sending a response: "msg2" "msg8" "msg1" "msg5" "msg7" "msg3" "msg9" "msg4" "msg6" "msg10"

karyna@karyna:~/Documents/APZ_labs/logging_service/cmake-build-release-gcc 70x34
[2023-04-02 01:06:25.413] [info] Message was added
[2023-04-02 01:06:25.413] [info] All content was added to a map
[2023-04-02 01:09:24.402] [info] Received GET request by LoggingController
[2023-04-02 01:09:24.402] [info] Creating an output string
[2023-04-02 01:09:24.402] [info] Getting logs from HazelcastLoggingService
[2023-04-02 01:09:24.417] [info] Got log: uuid = 7cecae2d-b980-4e6f-870e-539a592d262e, text = "msg2"
[2023-04-02 01:09:24.417] [info] Got log: uuid = 73ae096e-0ad0-4b34-995a-20b5e2b5d125, text = "msg4"
[2023-04-02 01:09:24.417] [info] Got log: uuid = eda604e4-0c53-4293-b975-ad19a1c50476, text = "msg1"
[2023-04-02 01:09:24.417] [info] Got log: uuid = 6bed21b3-d8a2-4086-a089-e6e5d19dc71d, text = "msg7"
[2023-04-02 01:09:24.417] [info] Got log: uuid = 34c2b823-2dd4-489c-84f2-faed500464a8, text = "msg10"
[2023-04-02 01:09:24.417] [info] Got log: uuid = dfcea883-4fa5-44fd-923e-b61503d436ff, text = "msg8"
[2023-04-02 01:09:24.417] [info] Got log: uuid = afef31f1-01b0-4c42-a7da-f3ee4dbf223c, text = "msg5"
[2023-04-02 01:09:24.417] [info] Got log: uuid = fcce65c1-37fc-475e-b786-69ecc1455f92, text = "msg3"
[2023-04-02 01:09:24.417] [info] Got log: uuid = bb5c0183-1f24-4491-b5d8-8152bfff0b43, text = "msg9"
[2023-04-02 01:09:24.417] [info] Got log: uuid = a3e242df-e8ed-4634-8d81-25566bbb2460, text = "msg6"
[2023-04-02 01:09:24.417] [info] All content was added to an output string
[2023-04-02 01:09:24.417] [info] Sending a response: "msg2" "msg4" "msg1" "msg5" "msg8" "msg10" "msg3" "msg9" "msg6"

karyna@karyna:~/Documents/APZ_labs/logging_service/cmake-build-release-gcc$
```