

https://github.com/myrimur/softarch/tree/micro_hazelcast

Продовжував виконувати на пайтоні 3.10 з grpc, все запускаю локально, requirements.txt є в кореневій директорії

Вивід клієнта (мінімальна самостійна реалізація теж через grpc). Перед останнім get відключаються 2 facade-service та 2 ноді хейзелкасту. Усі повідомлення читаються, як і раніше

```
(venv) wojak@wojak:~/ucv/softarch$ python client.py
> post msg1
> post msg2
> post msg3
> post msg4
> post msg5
> post msg6
> post msg7
> post msg8
> post msg9
> post msg10
> get
messages: "logging_service: msg5, msg6, msg7, msg10, msg9, msg3, msg2, msg8, msg1, msg4; messages_service: Not implemented yet"
> get
messages: "logging_service: msg10, msg9, msg3, msg1, msg2, msg5, msg4, msg6, msg7, msg8; messages_service: Not implemented yet"
```

Вивід facade-service. Під час останнього запиту фасад спочатку намагається звернутися до сервісу логінгу, який відключили, потім звертається за round-robin до наступного

```
(venv) wojak@wojak:~/ucv/softarch$ python facade_service.py
INFO:root:FacadeService running on [::]:50051
INFO:root:FacadeService.post request: message: "msg1"
INFO:root:FacadeService.post response:
INFO:root:FacadeService.post request: message: "msg2"
INFO:root:FacadeService.post response:
INFO:root:FacadeService.post request: message: "msg3"
INFO:root:FacadeService.post response:
INFO:root:FacadeService.post request: message: "msg4"
INFO:root:FacadeService.post response:
INFO:root:FacadeService.post request: message: "msg5"
INFO:root:FacadeService.post response:
INFO:root:FacadeService.post request: message: "msg6"
INFO:root:FacadeService.post response:
INFO:root:FacadeService.post request: message: "msg7"
INFO:root:FacadeService.post response:
INFO:root:FacadeService.post request: message: "msg8"
INFO:root:FacadeService.post response:
INFO:root:FacadeService.post request: message: "msg9"
INFO:root:FacadeService.post response:
INFO:root:FacadeService.post request: message: "msg10"
INFO:root:FacadeService.post response:
INFO:root:FacadeService.get request:
INFO:root:FacadeService.get response: messages: "logging_service: msg5, msg6, msg7, msg10, msg9, msg3, msg2, msg8, msg1, msg4; messages_service: Not implemented yet"
INFO:root:FacadeService.get request:
ERROR:root:Failed to get from logging service, retrying...
INFO:root:FacadeService.get response: messages: "logging_service: msg10, msg9, msg3, msg1, msg2, msg5, msg4, msg6, msg7, msg8; messages_service: Not implemented yet"
```

Вивід 3-ох екземплярів logging-service. З них видно, що повідомлення розкидаються на них за тим самим round-robin. Перед останнім get відключаються 2 і 3 екземпляри, тому їхній логи коротші

```
(venv) wojtek@wojak:~/goat/softrarc$ python logging_service.py "[::]:50052"
INFO:hazelcast.lifecycle:HazelcastClient 5.1 is STARTING
INFO:hazelcast.lifecycle:HazelcastClient 5.1 is STARTED
INFO:hazelcast.connection:Trying to connect to Address(host=127.0.0.1, port=5701)
INFO:hazelcast.lifecycle:HazelcastClient 5.1 is CONNECTED
INFO:hazelcast.connection:Authenticated with server Address(host=127.0.0.1, port=5701):420f8550-cffc-449e-8a16-ed3517bc02e4, server version: 5.2.2, local address: Address(host=127.0.0.1, port=35638)
INFO:hazelcast.cluster:
Members [3] {
  Member [127.0.0.1]:5701 - 420f8550-cffc-449e-8a16-ed3517bc02e4
  Member [127.0.0.1]:5702 - 7a790569-f24f-4d0e-bf29-0cc8acf39e7d
  Member [127.0.0.1]:5703 - 8c938e50-2169-4e0e-a628-13a60e1838cc
}
INFO:hazelcast.connection:Authenticated with server Address(host=127.0.0.1, port=5702):7a790569-f24f-4d0e-bf29-0cc8acf39e7d, server version: 5.2.2, local address: Address(host=127.0.0.1, port=48934)
INFO:hazelcast.connection:Authenticated with server Address(host=127.0.0.1, port=5703):8c938e50-2169-4e0e-a628-13a60e1838cc, server version: 5.2.2, local address: Address(host=127.0.0.1, port=55064)
INFO:hazelcast.client:Client started
INFO:root:LoggingService running on [::]:50052
INFO:root:LoggingService.post request: uuid: "f090ffb2-0c9d-4ddb-9417-2f325932300e"
message: "msg1"
INFO:root:LoggingService.post response:
INFO:root:LoggingService.post request: uuid: "616f3c8b-d90e-4194-922e-469b866f0962"
message: "msg4"
INFO:root:LoggingService.post response:
INFO:root:LoggingService.post request: uuid: "e07bcf73-b075-403b-bd77-d7d6e3079bcf"
message: "msg7"
INFO:root:LoggingService.post response:
INFO:root:LoggingService.post request: uuid: "c5e91259-3350-4b78-b961-7f5b274bbbaa"
message: "msg10"
INFO:root:LoggingService.post response:
WARNING:hazelcast.reactor:Connection closed by server
INFO:hazelcast.connection:Connection(id=1, live=False, remote_address=Address(host=127.0.0.1, port=5702)) closed. Reason: Connection closed by server
INFO:hazelcast.connection:Removed connection to Address(host=127.0.0.1, port=5702):7a790569-f24f-4d0e-bf29-0cc8acf39e7d, connection: Connection(id=1, live=False, remote_address=Address(host=127.0.0.1, port=5702))
INFO:hazelcast.cluster:
Members [2] {
  Member [127.0.0.1]:5701 - 420f8550-cffc-449e-8a16-ed3517bc02e4
  Member [127.0.0.1]:5703 - 8c938e50-2169-4e0e-a628-13a60e1838cc
}
WARNING:hazelcast.reactor:Connection closed by server
INFO:hazelcast.connection:Connection(id=2, live=False, remote_address=Address(host=127.0.0.1, port=5703)) closed. Reason: Connection closed by server
INFO:hazelcast.connection:Removed connection to Address(host=127.0.0.1, port=5703):8c938e50-2169-4e0e-a628-13a60e1838cc, connection: Connection(id=2, live=False, remote_address=Address(host=127.0.0.1, port=5703))
INFO:hazelcast.connection:Connection(id=3, live=False, remote_address=None) closed. Reason: [Errno 111] Connection refused
INFO:hazelcast.cluster:
Members [1] {
  Member [127.0.0.1]:5701 - 420f8550-cffc-449e-8a16-ed3517bc02e4
}
INFO:root:LoggingService.get request:
INFO:root:LoggingService.get response: messages: "msg10, msg9, msg3, msg1, msg2, msg5, msg4, msg6, msg7, msg8"
```

```
(venv) wojtek@wojak:~/goat/softrarc$ python logging_service.py "[::]:50053"
INFO:hazelcast.lifecycle:HazelcastClient 5.1 is STARTING
INFO:hazelcast.lifecycle:HazelcastClient 5.1 is STARTED
INFO:hazelcast.connection:Trying to connect to Address(host=127.0.0.1, port=5702)
INFO:hazelcast.lifecycle:HazelcastClient 5.1 is CONNECTED
INFO:hazelcast.connection:Authenticated with server Address(host=127.0.0.1, port=5702):7a790569-f24f-4d0e-bf29-0cc8acf39e7d, server version: 5.2.2, local address: Address(host=127.0.0.1, port=44352)
INFO:hazelcast.cluster:
Members [3] {
  Member [127.0.0.1]:5701 - 420f8550-cffc-449e-8a16-ed3517bc02e4
  Member [127.0.0.1]:5702 - 7a790569-f24f-4d0e-bf29-0cc8acf39e7d
  Member [127.0.0.1]:5703 - 8c938e50-2169-4e0e-a628-13a60e1838cc
}
INFO:hazelcast.connection:Authenticated with server Address(host=127.0.0.1, port=5701):420f8550-cffc-449e-8a16-ed3517bc02e4, server version: 5.2.2, local address: Address(host=127.0.0.1, port=41050)
INFO:hazelcast.connection:Authenticated with server Address(host=127.0.0.1, port=5703):8c938e50-2169-4e0e-a628-13a60e1838cc, server version: 5.2.2, local address: Address(host=127.0.0.1, port=43894)
INFO:hazelcast.client:Client started
INFO:root:LoggingService running on [::]:50053
INFO:root:LoggingService.post request: uuid: "003aa1e7-3340-4580-acdd-84423205a23e"
message: "msg2"
INFO:root:LoggingService.post response:
INFO:root:LoggingService.post request: uuid: "e6204983-283c-44f0-8221-677105da94a2"
message: "msg5"
INFO:root:LoggingService.post response:
INFO:root:LoggingService.post request: uuid: "de72fd21-0944-4ee0-ac7f-c327c060dd3b"
message: "msg8"
INFO:root:LoggingService.post response:
INFO:root:LoggingService.get request:
INFO:root:LoggingService.get response: messages: "msg5, msg6, msg7, msg10, msg9, msg3, msg2, msg8, msg1, msg4"
WARNING:hazelcast.reactor:Connection closed by server
INFO:hazelcast.connection:Connection(id=0, live=False, remote_address=Address(host=127.0.0.1, port=5702)) closed. Reason: Connection closed by server
INFO:hazelcast.connection:Removed connection to Address(host=127.0.0.1, port=5702):7a790569-f24f-4d0e-bf29-0cc8acf39e7d, connection: Connection(id=0, live=False, remote_address=Address(host=127.0.0.1, port=5702))
INFO:hazelcast.cluster:
Members [2] {
  Member [127.0.0.1]:5701 - 420f8550-cffc-449e-8a16-ed3517bc02e4
  Member [127.0.0.1]:5703 - 8c938e50-2169-4e0e-a628-13a60e1838cc
}
WARNING:hazelcast.reactor:Connection closed by server
INFO:hazelcast.connection:Connection(id=2, live=False, remote_address=Address(host=127.0.0.1, port=5703)) closed. Reason: Connection closed by server
INFO:hazelcast.connection:Removed connection to Address(host=127.0.0.1, port=5703):8c938e50-2169-4e0e-a628-13a60e1838cc, connection: Connection(id=2, live=False, remote_address=Address(host=127.0.0.1, port=5703))
INFO:hazelcast.connection:Connection(id=3, live=False, remote_address=None) closed. Reason: [Errno 111] Connection refused
INFO:hazelcast.cluster:
Members [1] {
  Member [127.0.0.1]:5701 - 420f8550-cffc-449e-8a16-ed3517bc02e4
}

```

```
(venv) wsl@kali:~/src/server$ python logging_service.py "[::]:50054"
INFO:hazelcast.lifecycle:HazelcastClient 5.1 is STARTING
INFO:hazelcast.lifecycle:HazelcastClient 5.1 is STARTED
INFO:hazelcast.connection:Trying to connect to Address(host=127.0.0.1, port=5702)
INFO:hazelcast.lifecycle:HazelcastClient 5.1 is CONNECTED
INFO:hazelcast.connection:Authenticated with server Address(host=127.0.0.1, port=5702):7a790569-f24f-4d0e-bf29-0cc8acf39e7d, server version: 5.2.2, local address: Address(host=127.0.0.1, port=33642)
INFO:hazelcast.cluster:
Members [3] {
  Member [127.0.0.1]:5701 - 420f8550-cffc-449e-8a16-ed3517bc02e4
  Member [127.0.0.1]:5702 - 7a790569-f24f-4d0e-bf29-0cc8acf39e7d
  Member [127.0.0.1]:5703 - 8c938e50-2169-4e0e-a628-13a60e1838cc
}
INFO:hazelcast.connection:Authenticated with server Address(host=127.0.0.1, port=5701):420f8550-cffc-449e-8a16-ed3517bc02e4, server version: 5.2.2, local address: Address(host=127.0.0.1, port=37758)
INFO:hazelcast.connection:Authenticated with server Address(host=127.0.0.1, port=5703):8c938e50-2169-4e0e-a628-13a60e1838cc, server version: 5.2.2, local address: Address(host=127.0.0.1, port=59028)
INFO:hazelcast.client:Client started
INFO:root:LoggingService running on [::]:50054
INFO:root:LoggingService.post request: uuid: "e09961d4-23d7-4230-8af7-7317775eb6c1"
message: "msg3"
INFO:root:LoggingService.post response:
INFO:root:LoggingService.post request: uuid: "ce37f593-7df5-4f80-b44b-f146776dfa51"
message: "msg6"
INFO:root:LoggingService.post response:
INFO:root:LoggingService.post request: uuid: "2401d3e6-c8af-4762-8179-94a92a4e9128"
message: "msg9"
INFO:root:LoggingService.post response:
WARNING:hazelcast.reactor:Connection closed by server
INFO:hazelcast.connection:Connection(id=0, live=False, remote_address=Address(host=127.0.0.1, port=5702)) closed. Reason: Connection closed by server
INFO:hazelcast.connection:Removed connection to Address(host=127.0.0.1, port=5702):7a790569-f24f-4d0e-bf29-0cc8acf39e7d, connection: Connection(id=0, live=False, remote_address=Address(host=127.0.0.1, port=5702))
INFO:hazelcast.cluster:
Members [2] {
  Member [127.0.0.1]:5701 - 420f8550-cffc-449e-8a16-ed3517bc02e4
  Member [127.0.0.1]:5703 - 8c938e50-2169-4e0e-a628-13a60e1838cc
}
WARNING:hazelcast.reactor:Connection closed by server
INFO:hazelcast.connection:Connection(id=2, live=False, remote_address=Address(host=127.0.0.1, port=5703)) closed. Reason: Connection closed by server
INFO:hazelcast.connection:Removed connection to Address(host=127.0.0.1, port=5703):8c938e50-2169-4e0e-a628-13a60e1838cc, connection: Connection(id=2, live=False, remote_address=Address(host=127.0.0.1, port=5703))
INFO:hazelcast.cluster:
Members [1] {
  Member [127.0.0.1]:5701 - 420f8550-cffc-449e-8a16-ed3517bc02e4
}
```