

LabChat

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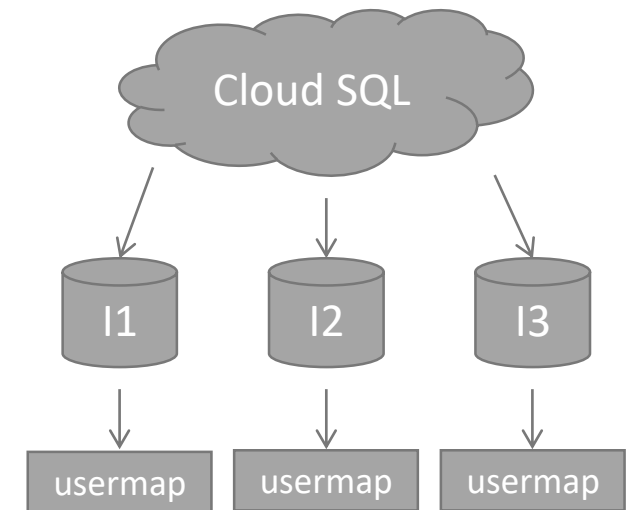
Cloud Computing WS 18/19

Agenda

- Identified issues
 - Solution
 - Problems
 - Lesson-learnt
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- Live Demo

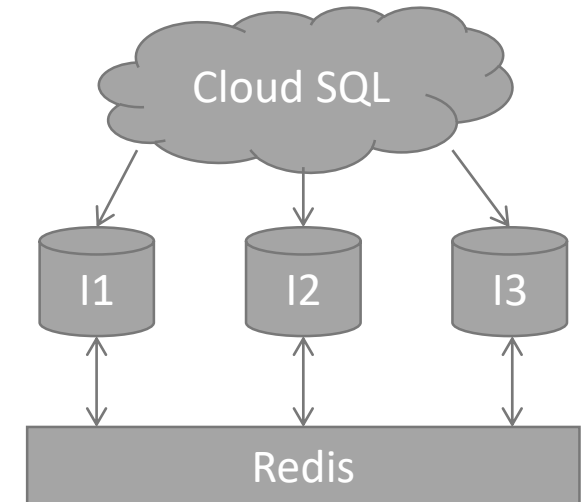
Identified Issues

- Each instance of a server has it's own usermap for saving active users
 - Multiple instances can't communicate with each other
- No implementation for failover
 - 2 running instances don't know from each other



Solution

- Using Redis
 - ioredis: Node library of redis (unofficial)
 - Socket.io-redis: broadcasting / emit over all instances



Problems

- Connecting Node-App with the Redis instance on Bluemix failed
 - Followed the guide from IBM step by step but no success

```
var pub = new Redis("rediss://admin:GIUAUMNDZEDCLCS@portal154-47.bix-dal-yp-5d53a8af-9ab5-4953-ab96-8db1e1507a9f.2464685681.composedb.com:17394");
```

```
Error: read ECONNRESET  
  
    at TCP.onread (net.js:622:25)
```

Problems

- Instead using Redis instance from “Redis4You”
 - After 5 connections, restart of the instance is necessary
 - Sudden crashes of the instance happen pretty often
 - → hard to do Live-Tests

Lesson-learnt

- Using multiple instances of an application is crucial for providing high availability
- Considering scale-out of an app from the beginning prevents a lot of re-coding

Live Demo

<https://objective-euler.mybluemix.net/>