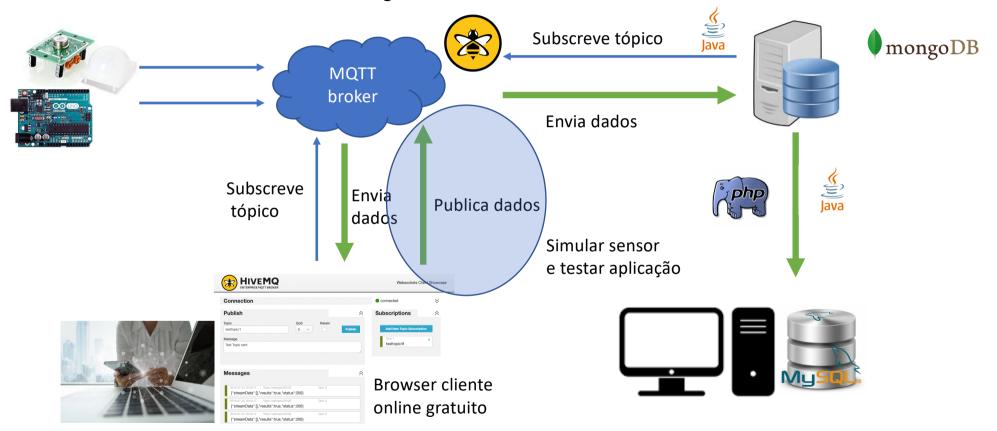
Comunicação entre Sensores e Java (MQQT)

Catarina Ferreira da Silva ISCTE-IUL 2020

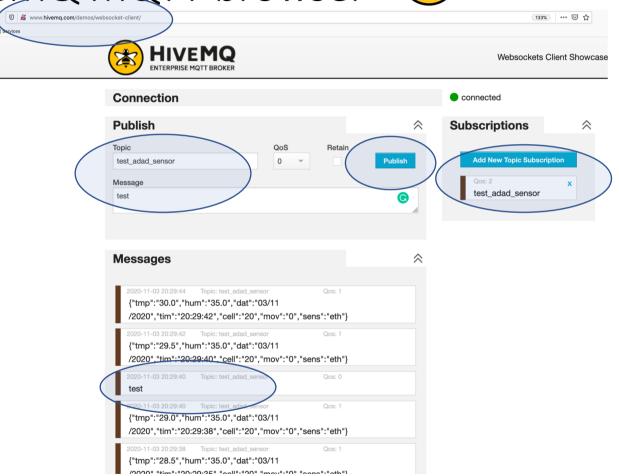
Armazenamento de Dados em Ambientes distribuídos

Fluxo de Informação entre sensores e BDs



HiveMQ MQTT browser





```
import java.io.*;
import java.util.*;
import org.eclipse.paho.client.mgttv3.*;
public class JavaSensor implements MqttCallback {
Vector ArrivedData = new Vector();
MattClient client:
public JavaSensor() {
public static void main(String[] args) {
           new JavaSensor().exportacao();
public void exportacao() {
           String MessageText;
   try {
            client = Sew MgttClient("tcp://broker.mgtt-dashboard.com:1883","test adad sensor");
           client.connect();
           client.setCallback(this);
           client.subscribe("test adad sensor");
   } catch (MqttException e)
           System.out.println("erro");
           e.printStackTrace();
@Override
public void connectionLost(Throwable cause) {
public void messageArrived(String topic, MgttMessage message)
       throws Exception
                                    ArrivedData.addElement(message.toString());
                                    System.out.println(message);
@Override
public void deliveryComplete(IMqttDeliveryToken token) { }
           INFO: Opened connection [connectionId{localValue:2, serverValue:9}] to localhost:27017
           {"tmp":"18.0","hum":"35.0","dat":"02/11/2020","tim":"13:00:26","cell":"20","mov":"1","sens":"eth"}
           {"tmp":"18.0", "hum": "35.0", "dat": "02/11/2020", "tim": "13:00:29", "cell": "20", "mov": "0", "sens": "eth"}
           {"tmp": '50.0', "hum": "35.0", "dat": "02/11/2020", "tim": "13:00:31", "cell": "20", "mov": "0", "sens": "eth"}
           {"tmp": "50.0", "hum": "35.0", "dat": "02/11/2020", "tim": "13:00:33", "cell"; "20", "mov": "x", "sens": "eth"}
           {"tmp": "50.0", "hum": "35.0", "dat": "02/11/2020", "tim": "13:00:35", "cell": "-20", "mov": "0", "sens": "eth"}
           {"tmp": "50.0", "hum": "35.0", "dat": "02/11/2020", "tim": "13:00:37", "cell"; "20",
           {"tmp": 18.0", "hum": "35.0", "dat": "02/11/2020", "tim": "13:00:39", "cell": "20", "mov": "0", "sens": "eth"}
```