

# Lab 2 - Cloud Infrastructure & Services

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## Setting up the Environment.

Following the instructions, I created an AWS account. I then set up Elastic Beanstalk with an instance of Node.js, along with a connected RDS MySQL database.

## Screenshots

The screenshot displays the Amazon RDS console interface for a MySQL database instance named 'test2'. The left sidebar contains navigation links such as Dashboard, Databases, Query Editor, Performance insights, Snapshots, Automated backups, Reserved instances, Proxies, Subnet groups, Parameter groups, Option groups, Custom engine versions, Events, Event subscriptions, Recommendations, and Certificate update. The main content area shows the instance details under the 'Configuration' tab. The 'Summary' section at the top provides a quick overview: DB identifier 'test2', CPU usage at 6.44%, Status 'Available', Class 'db.t2.micro', Role 'Instance', Current activity '0 Connections', Engine 'MySQL Community', and Region & AZ 'eu-west-1c'. Below this, the 'Instance' section is divided into four columns: Configuration, Instance class, Storage, and Performance Insights. The Configuration column lists details like DB instance ID, Engine version (8.0.23), DB name (ebdb), License model (General Public License), Option groups (default.mysql8.0), Amazon Resource Name (ARN), Resource ID, Created time, Parameter group (default.mysql8.0), and Deletion protection (Disabled). The Instance class column shows the instance class (db.t2.micro), vCPU (1), RAM (1 GB), Availability (Master username root, IAM DB authentication Not enabled, Multi-AZ No, Secondary Zone -), and Master username (root). The Storage column details Encryption (Not enabled), Storage type (General Purpose SSD (gp2)), Storage (5 GIB), Provisioned IOPS (-), and Storage autoscaling (Disabled). The Performance Insights column shows Performance insights enabled (No) and Database activity stream (Status Stopped).

MySQL database



## Setting up the backend to connect to the Database

For the project itself I found some information from the European Central Bank on the change of prices for consumer goods and services, and decided to take part of it, put it into my database, and then display it using Chart.js

### Running version

pls-91

**Upload and deploy**

Most of it went fine, but unfortunately React.js didn't want to cooperate and I ran out of time, so no graph. However the querying works perfectly.

Link : <http://test2-env.eba-msamrufu.eu-west-1.elasticbeanstalk.com/>

Amazon Web Servi X

Test2-env - Dashbo X

test2-env.eba-msamru X

Lab 2.pc

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test2-env.eba-msamrufu.eu-west-1.elasticbeanstalk.com/d

JSON

Raw Data

Headers

Save

Copy

Collapse All

Expand All

🔍 Filter JSON

▼ 0:

date:

"2016-10-31T00:00:00.000Z"

country:

"Ireland"

rate:

-0.4

▼ 1:

date:

"2016-11-30T00:00:00.000Z"

country:

"Ireland"

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-0.2

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-0.2

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"2017-01-31T00:00:00.000Z"

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"Ireland"

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0.3

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date:

"2017-03-31T00:00:00.000Z"

country:

"Ireland"

rate:

0.6

▼ 6:

date:

"2017-04-30T00:00:00.000Z"

country:

"Ireland"

rate:

0.7

▼ 7:

date:

"2017-05-31T00:00:00.000Z"

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"Ireland"

rate:

0

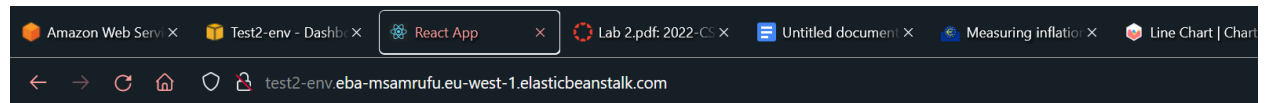
▼ 8:

date:

"2017-06-30T00:00:00.000Z"

country:

"Ireland"



# Welcome to my page on inflation in Europe

The data for HCIP (Harmonised Index of Consumer Prices), taken from the [European Central Bank](#), is used to measure consumer price inflation

[graph]