

## Task Day 3:

1. Create Company databases on RDS Mysql and connect to it (create employee table and department table)

```
Activities Terminal Thu 17:41
dina@dina: ~
File Edit View Search Terminal Help
dina@dina:~$ mysql -h database-1.ctfa7meqehmq.eu-west-2.rds.amazonaws.com -P 3306 --protocol=tcp -uadmin -phelenfischer
mysql: [Warning] Using a password on the command line interface can be insecure.
Welcome to the MySQL monitor.  Commands end with ; or \g.
Your MySQL connection id is 16
Server version: 8.0.28 Source distribution

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owners.

Type 'help;' or '\h' for help. Type '\c' to clear the current input statement.

mysql> CREATE DATABASE IF NOT EXISTS employee;
Query OK, 1 row affected (0.10 sec)

mysql> CREATE DATABASE IF NOT EXISTS department;
Query OK, 1 row affected (0.09 sec)

mysql> USE employee;
Database changed
mysql> DROP TABLE IF EXISTS employees;
Query OK, 0 rows affected, 1 warning (0.08 sec)

mysql>
```

```
mysql> desc employees;
+-----+-----+-----+-----+-----+-----+
| Field      | Type          | Null | Key | Default | Extra          |
+-----+-----+-----+-----+-----+-----+
| id         | bigint unsigned | NO   | PRI | NULL    | auto_increment |
| first_name | varchar(255)   | YES  |     | NULL    |                |
| last_name  | varchar(255)   | YES  |     | NULL    |                |
| email      | varchar(255)   | YES  |     | NULL    |                |
| address    | varchar(255)   | YES  |     | NULL    |                |
| phone      | varchar(255)   | YES  |     | NULL    |                |
| dept_id    | varchar(255)   | NO   |     | NULL    |                |
+-----+-----+-----+-----+-----+-----+
7 rows in set (0.09 sec)

mysql> desc departments;
+-----+-----+-----+-----+-----+-----+
| Field      | Type          | Null | Key | Default | Extra          |
+-----+-----+-----+-----+-----+-----+
| id         | bigint unsigned | NO   | PRI | NULL    | auto_increment |
| dep_name   | varchar(255)   | YES  |     | NULL    |                |
+-----+-----+-----+-----+-----+-----+
2 rows in set (0.09 sec)

mysql>
```

## 2. Create s3 bucket upload files and then expose it publicly (access it from your web browser)

Amazon S3 > Buckets > sprints-lab3

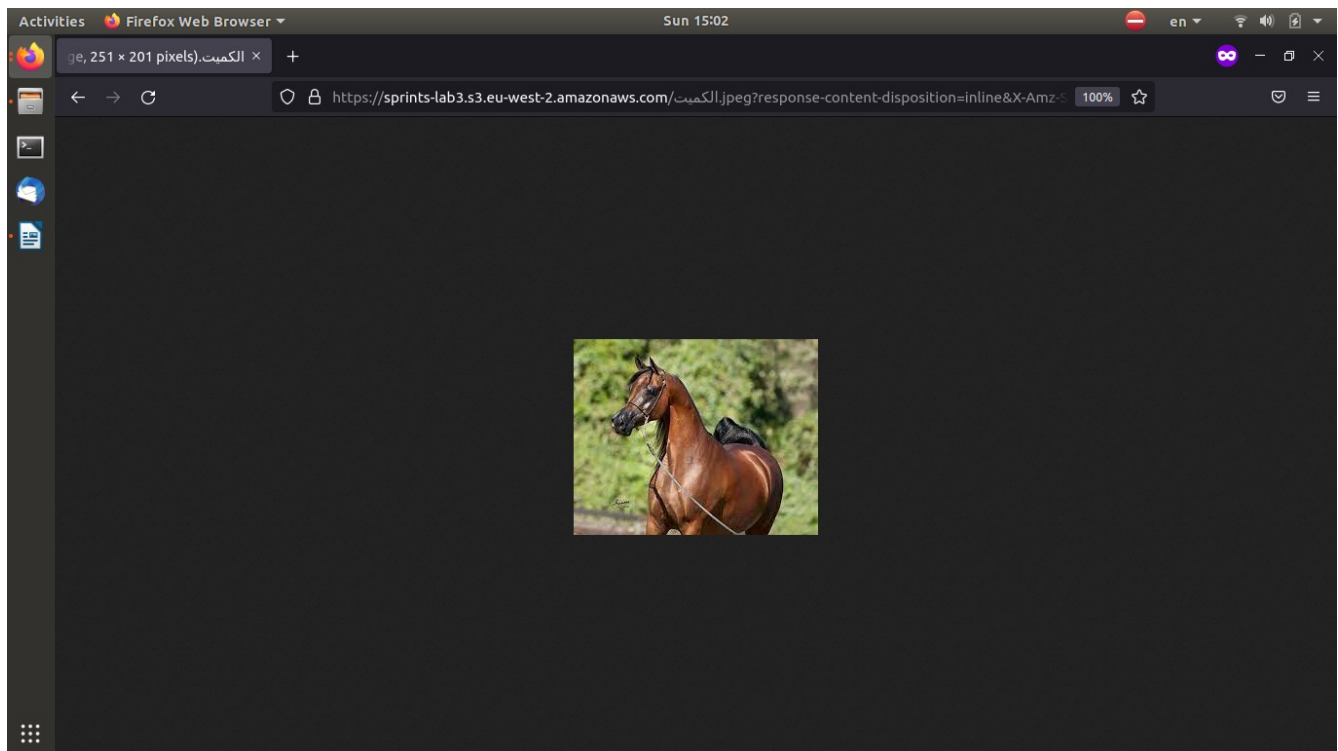
### sprints-lab3 info

Objects Properties Permissions Metrics Management Access Points

**Objects (2)**

Objects are the fundamental entities stored in Amazon S3. You can use [Amazon S3 Inventory](#) to get a list of all objects in your bucket. For others to access your objects, you'll need to explicitly grant them permissions. [Learn more](#)

<input type="checkbox"/>	Name	Type	Last modified	Size	Storage class
<input type="checkbox"/>	مجزءم.jpg	jpeg	August 28, 2022, 14:59:30 (UTC+03:00)	12.1 KB	Standard
<input type="checkbox"/>	مجزءم.jpg	jpeg	August 28, 2022, 14:59:31 (UTC+03:00)	8.1 KB	Standard



### 3. Create a static website using s3 buckets (access it from your web browser)

Amazon S3 > Buckets > sprints-lab3 > Edit static website hosting

## Edit static website hosting Info

### Static website hosting

Use this bucket to host a website or redirect requests. [Learn more](#)

Static website hosting

☐ Disable

☒ Enable

Hosting type

☒ Host a static website

Use the bucket endpoint as the web address. [Learn more](#)

☐ Redirect requests for an object

Redirect requests to another bucket or domain. [Learn more](#)

ⓘ For your customers to access content at the website endpoint, you must make all your content publicly readable. To do so, you can edit the S3 Block Public Access settings for the bucket. For more information, see [Using Amazon S3 Block Public Access](#)

Index document

Specify the home or default page of the website.

Error document - *optional*

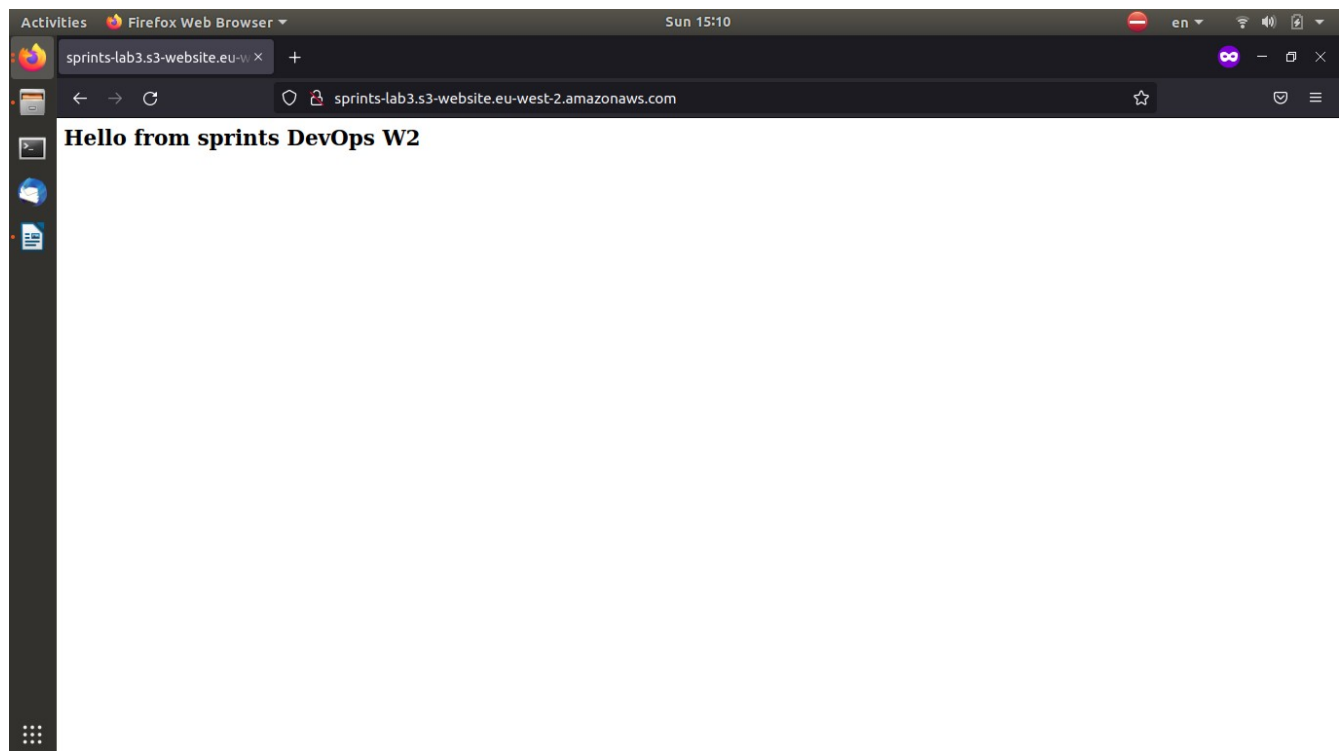
This is returned when an error occurs.

Redirection rules - *optional*

Redirection rules, written in JSON, automatically redirect webpage requests for specific content. [Learn more](#)

1	
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[back](#) Looking for language selection? Find it in the new Unified Settings



#### 4. Create 2 EC2 (App\_server, Web\_server)

Instances (2) Info

Search

Instance state = running X Clear filters

	Name	Instance ID	Instance state	Instance type	Status check	Alarm status	Availability Zone	Public IPv4 DNS	Public IP
<input type="checkbox"/>	nodeapiserver	i-068f6b1a4d1dc8642	Running	t2.micro	Initializing	No alarms	eu-west-2c	ec2-18-168-226-25...	18...
<input type="checkbox"/>	webserver	i-09e881d303814a391	Running	t2.micro	Initializing	No alarms	eu-west-2c	ec2-18-168-197-24...	18...

#### 5. Create EBS volume then attach it with App\_server

EC2 > Volumes > vol-05683dea8985796b4 > Attach volume

### Attach volume

Attach a volume to an instance to use it as you would a regular physical hard disk drive.

**Basic details**

Volume ID  
vol-05683dea8985796b4

Availability Zone  
eu-west-2c

Instance  
i-09e881d303814a391

Device name  
/dev/sdf

Newer Linux kernels may rename your devices to /dev/xvdf through /dev/xvdp internally, even when the device name entered here (and shown in the details) is /dev/sdf through /dev/sdp.

Cancel Attach volume

Instances (1/2) Info

Search

Instance state = running X Clear filters

	Name	Instance ID	Instance state	Instance type	Status check	Alarm status	Availability Zone	Public IPv4 DNS	Public IP
<input type="checkbox"/>	nodeapiserver	i-068f6b1a4d1dc8642	Running	t2.micro	Initializing	No alarms	eu-west-2c	ec2-18-168-226-25...	18...
<input checked="" type="checkbox"/>	webserver	i-09e881d303814a391	Running	t2.micro	Initializing	No alarms	eu-west-2c	ec2-18-168-197-24...	18...

### Instance: i-09e881d303814a391 (webserver)

Details Security Networking **Storage** Status checks Monitoring Tags

**Root device details**

Root device name /dev/xvda	Root device type EBS	EBS optimization disabled
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**Block devices**

Volume ID	Device name	Volume size (GiB)	Attachment status	Attachment time	Encrypted	KMS key ID
vol-092424b9903fc36c2	/dev/xvda	8	Attached	Sun Aug 28 2022 15:16:52 G...	No	-
vol-05683dea8985796b4	/dev/sdf	10	Attached	Sun Aug 28 2022 15:37:45 G...	No	-

**Recent root volume replacement tasks**

Filter tasks
Replace root volume

6. Create Image from App\_server then create a new server from created image (Replica\_App\_server) in a different region

The screenshot displays two sections of the AWS Management Console. The top section, 'Amazon Machine Images (AMIs) (1/1)', shows a table with one AMI: 'webserver-img' with AMI ID 'ami-002a578e869bbd804'. The bottom section, 'Instances (1)', shows a table with one instance: 'Replica\_App\_server' with Instance ID 'i-09d9e44edfd838255', which is in a 'Running' state.

Owned by me	Name	AMI ID	AMI name	Source	Owner	Visibility	Status
<input checked="" type="checkbox"/>	-	ami-002a578e869bbd804	webserver-img	334316156435/webserver-img	334316156435	Private	Running

Name	Instance ID	Instance state	Instance type	Status check	Alarm status	Availability Zone	Public IPv4 DNS
Replica_App_server	i-09d9e44edfd838255	Running	t2.micro	-	No alarms	eu-central-1b	ec2-3-73-121-245.eu-c...

7. Create snapshot from created EBS volume in (task4)

The screenshot shows the 'Snapshots (1/3)' section of the AWS Management Console. It displays a table with three snapshots, all of which are 'Completed' and 'Available (100%)'.

Name	Snapshot ID	Size	Description	Storage...	Snapshot status	Started	Progress
-	snap-05e91b59fb33a580e	10 GiB	ebs-snapshot	Standard	Completed	2022/08/28 15:56 GMT+3	Available (100%)
-	snap-0c3416f9cabb51faa	10 GiB	Created by CreateImage(i-...	Standard	Completed	2022/08/28 15:48 GMT+3	Available (100%)
-	snap-0bae2af6320033a66	8 GiB	Created by CreateImage(i-...	Standard	Completed	2022/08/28 15:48 GMT+3	Available (100%)