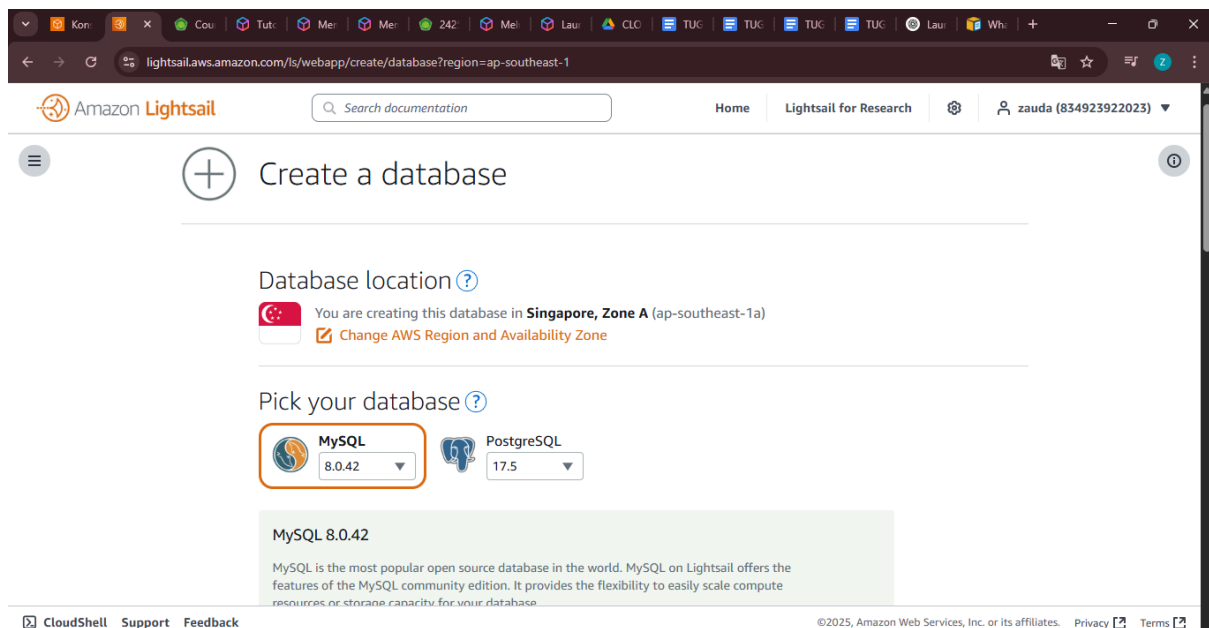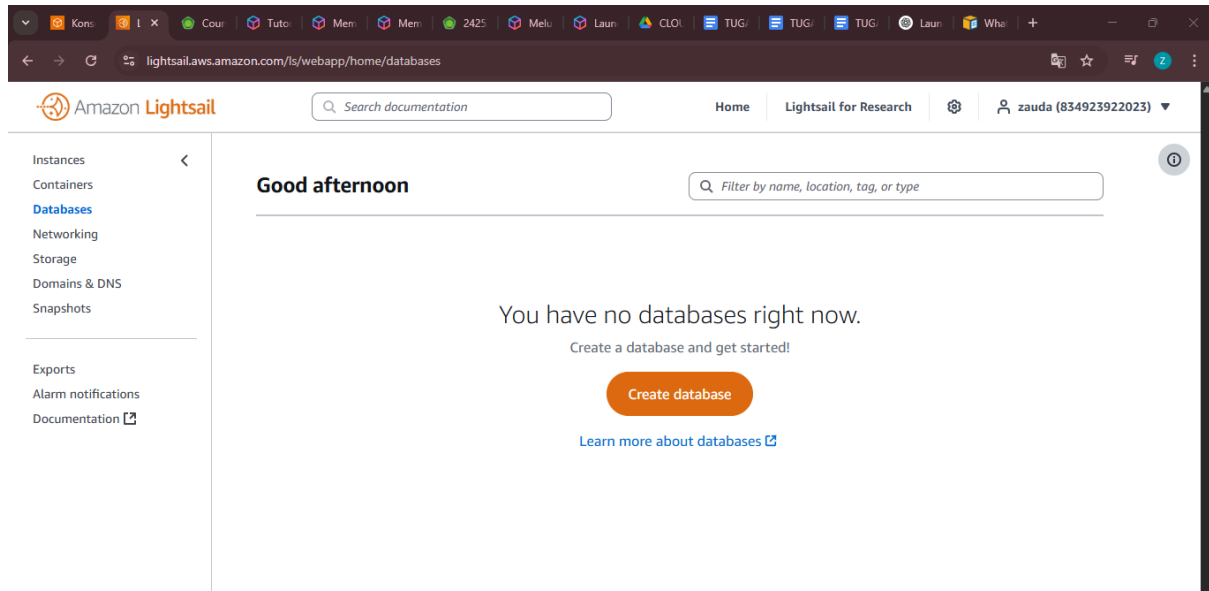Nama   : Zauda Salma Salsabila
NIM   : 220605110043
Matakuliah   : Cloud Computing

<div align="center">Deploy and Configure an Amazon Lightsail MySQL Database</div>

Amazon **Lightsail**

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Choose your database plan ⑦

[Standard] [High Availability]

Standard plan databases are created in one Availability Zone only, with no redundancy

Sort by: [Price per month] [Memory] [Processing] [Storage] [Transfer]

First 90 days free

$15 USD	**$30** USD	**$60** USD	**$115** USD	
$15 USD	$30 USD	$60 USD	$115 USD	Price per month
1 GB	2 GB	4 GB	8 GB	Memory
2 vCPUs	2 vCPUs	2 vCPUs	2 vCPUs	Processing
40 GB SSD	80 GB SSD	120 GB SSD	240 GB SSD	Storage
100 GB	100 GB	100 GB	200 GB	Transfer

ⓘ **If you need to import more than 10 GB of data, we recommend choosing a larger database plan.**
Learn more ⧉

For a limited time, new Lightsail customers can try the selected plan for free for 90 days.

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Good afternoon

Filter by name, location, tag, or type

Sort by **Creation date** ⌄   [**Create database**]

Database-Zauda
MySQL database (8.0.42)
40 GB SSD   ⋮

Available   Singapore, Zone A

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Create an instance

Instance location Info

You are creating this instance in **Singapore, Zone A** (ap-southeast-1a)
✎ **Change AWS Region and Availability Zone**

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Pick your instance image   Info

The instance image you pick determines the operating system and whether there are any included applications in your instance.

Select a platform

○ Linux/Unix
27 blueprints

○ Microsoft Windows
6 blueprints

Select a blueprint

Apps + OS | Operating System (OS) only

○ Amazon Linux 2023
2023.7.20250512.0

○ Amazon Linux 2
2.0.20250527.1

● Ubuntu
24.04 LTS

○ Ubuntu
22.04 LTS

○ Debian
12.8

○ Debian
11.11

○ FreeBSD
14.2

○ FreeBSD
13.4

○ openSUSE
15.6

○ AlmaLinux
9.4

○ CentOS
CS9-20230110

Ubuntu 24.04 LTS

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Select a size

Sort by   Price per month ▼

● **$5**
USD per month
512 MB Memory
2 vCPUs Processing
20 GB SSD Storage
1 TB Transfer
First 90 days free

○ **$7**
USD per month
1 GB Memory
2 vCPUs Processing
40 GB SSD Storage
2 TB Transfer
First 90 days free

○ **$12**
USD per month
2 GB Memory
2 vCPUs Processing
60 GB SSD Storage
3 TB Transfer
First 90 days free

○ **$24**
USD per month
4 GB Memory
2 vCPUs Processing
80 GB SSD Storage
4 TB Transfer

○ **$44**
USD per month
8 GB Memory
2 vCPUs Processing
160 GB SSD Storage
5 TB Transfer

○ **$84**
USD per month
16 GB Memory
4 vCPUs Processing
320 GB SSD Storage
6 TB Transfer

○ **$164**
USD per month
32 GB Memory
8 vCPUs Processing
640 GB SSD Storage
7 TB Transfer

○ **$384**
USD per month
64 GB Memory
16 vCPUs Processing
1,280 GB SSD Storage
8 TB Transfer
Largest plan

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Amazon Lightsail

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Identify your instance

Instance name

Instance names help you identify an instance once it's created. The instance name must be unique in the AWS Region for your Lightsail account.

Ubuntu-Zauda   ✕   1

Tagging options - *optional*   Info

You can specify tags to assign to this resource after it's created. Key-value tags are used to filter and organize your resources, organize your billing, and control access to your resources in the Lightsail console.

Key

🔍 O2   ✕

Value - *optional*

🔍 Ubuntu   ✕   Remove

Add new tag

You can add up to 49 more tags.

Your use of AWS services is subject to the AWS Customer Agreement.

Create instance

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Screenshot 1 — Amazon Lightsail — Database-Zauda (Connect)

lightsail.aws.amazon.com/ls/webapp/ap-southeast-1/databases/Database-Zauda/connect

Amazon Lightsail

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Database-Zauda

1 GB RAM, 2 vCPUs, 40 GB SSD
MySQL database (8.0.42)
Singapore, Zone A (ap-southeast-1a)

Stop | **Reboot**

Status: **Available**

Endpoint: ls-5305eb319b935374d49235a174f327e33304efba.cvg8gg84u2kx.ap-southeast-1.rds.amazonaws.com
Port: **3306**

Connect | Logs & history | Metrics | Networking | Snapshots & restore | Tags | Delete

Connection details
User name and password

User name
dbmasteruser

Password (show)
****
Change password

Endpoint and port

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https://lightsail.aws.amazon.com/ls/webapp/home

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Screenshot 2 — Logs

lightsail.aws.amazon.com/ls/webapp/ap-southeast-1/databases/Database-Zauda/logs

Open error.log

Additional logs

Your database provides additional logs to help diagnose problems and monitor activity. When enabled, these logs may impact read and write performance on your database.

Learn more about logging and performance.

General query log

The general query log is a general record of what MySQL is doing. The server writes information to this log when clients connect or disconnect, and it logs each SQL statement received from clients.

General query logging is **enabled**

⚠ **This log writes frequently, which may affect performance.**

Open general.log

Slow query log

The slow query log consists of SQL statements that took longer than the long_query_time parameter.

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Screenshot 3 — Metrics (CPU Utilization)

lightsail.aws.amazon.com/ls/webapp/ap-southeast-1/databases/Database-Zauda/metrics/CPUUtilization?timeRange=1h

This metric identifies the percentage of CPU power being used to run your database.

Average CPU utilization per 1 minute

100% 80% 60% 40% 20%

12:35 12:40 12:45 12:50 12:55 13:00 13:05 13:10 13:15 13:20 13:25 13:30
May 31 ...

Show last: **1 hour** 6 hours 1 day 1 week 2 weeks

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Connect | Logs & history | Metrics | Networking | **Snapshots & restore** | Tags | Delete

Manual snapshots ?

You can create a snapshot to back up your database.

+ Create snapshot

Give your snapshot a name.

Database-Zauda-220605110043

Cancel ⊘   Create ✓

Emergency restore ?

Lightsail retains one week of backups of your database, in five-minute increments. Select a point in time from the last week to create a new database from that backup.

ⓘ If you recently enabled data import mode, you can only restore from a point in time after you

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MySQL database (8.0.42)
Singapore, Zone A (ap-southeast-1a)

Status: **Available**

Endpoint: **ls-5305eb319b935374d49235a174f327e33304efba.cvg8gg84u2kx.ap-southeast-1.rds.amazonaws.com**

Port: **3306**

Connect | Logs & history | Metrics | **Networking** | Snapshots & restore | Tags | Delete

Network security

⊗ Public mode

When public mode is enabled, anyone with your database user name and password can connect to it. When this mode is disabled, only your Lightsail resources in the same Region as your database can connect to it.

Public mode is **disabled**.

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Ubuntu

AWS Region
Singapore, Zone A
(ap-southeast-1a)

Networking type
Dual-stack
Change networking type

Public IPv4 address
13.250.125.209

Private IPv4 address
172.26.3.121

Public IPv6 address
2406:da18:824:b900:bc54:2a19:c807:1
64

Instance status
⊘ Running

Connect | Metrics | Snapshots | Storage | Networking | Domains | Tags | History

Connect to your instance Info

You can connect using your browser, or your own compatible SSH client.

Use your browser Info
Connect using our browser-based SSH client.

▶ Connect using SSH

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lightsail.aws.amazon.com/ls/remote/ap-southeast-1/instances/Ubuntu-Zauda/terminal?protocol=ssh

```
sudo apt install nmh          # version 1.8-1
ubuntu@ip-172-26-9-70:~$ mysql -h ls-5305eb319b935374d49235
a174f327e33304efba.cvg8gg84u2kx.ap-southeast-1.rds.amazonaw
s.com -u dbmasteruser -p'3zJt1sapTISmyh^GDnGRv*+f:Xo}TtfE'
mysql: [Warning] Using a password on the command line inter
face can be insecure.
Welcome to the MySQL monitor.  Commands end with ; or \g.
Your MySQL connection id is 30
Server version: 8.0.42 Source distribution

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or its
affiliates. Other names may be trademarks of their respecti
ve
owners.

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

mysql> show database;
ERROR 1064 (42000): You have an error in your SQL syntax; c
heck the manual that corresponds to your MySQL server versi
on for the right syntax to use near 'database' at line 1
mysql> show databases;
+--------------------+
| Database           |
+--------------------+
| dbmaster           |
```

Ubuntu-Zauda
13.212.85.26

lightsail.aws.amazon.com/ls/remote/ap-southeast-1/instances/Ubuntu-Zauda/terminal?protocol=ssh

```
on for the right syntax to use near 'database' at line 1
mysql> show databases;
+--------------------+
| Database           |
+--------------------+
| dbmaster           |
| information_schema |
| mysql              |
| performance_schema |
| sys                |
+--------------------+
5 rows in set (0.01 sec)

mysql> create database 220605110043_Zauda;
Query OK, 1 row affected (0.01 sec)

mysql> show databases;
+--------------------+
| Database           |
+--------------------+
| 220605110043_Zauda |
| dbmaster           |
| information_schema |
| mysql              |
| performance_schema |
| sys                |
+--------------------+
6 rows in set (0.01 sec)

mysql>
```

Ubuntu-Zauda
13.212.85.26

```
mysql> exit
Bye
ubuntu@ip-172-26-9-70:~$
```

Ubuntu-Zauda
13.212.85.26

Swafoto Pengerjaan Tugas