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MK : Cloud Computing

Latihan 1

- Membuat MySQL instance

Google Cloud PlatformKelompok THRR

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Create a MySQL instance

Instance ID *

rafligo-mysql

Use lowercase letters, numbers, and hyphens. Start with a letter.

Password *

rafligo012

Set a password for the root user. [Learn more](#)

☐ No password

Database version *

MySQL 5.7

Choose a configuration to start with

These suggested configurations will pre-fill this form as a starting point for creating an instance. You can customize as needed later.

You've made changes that override the selected configuration.

RESET

☒ Production

Optimized for the most critical workloads. Highly available, performant, and durable.

☐ Development

Performant but not highly available, while reducing cost by provisioning less compute and storage.

CONFIGURATION DETAILS

\$66.31 per month (estimated)

That's about \$0.09 an hour.

Feature usage and traffic costs aren't included in estimate

SHOW COST BREAKDOWN

Estimated performance

Network throughput (MB/s)	250 of 2,000
Disk throughput (MB/s)	Read: 48.0 of 240.0 Write: 48.0 of 72.0
IOPS	Read: 3,000 of 15,000 Write: 3,000 of 4,500

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Create a MySQL instance

CONFIGURATION DETAILS

Choose region and zonal availability

For better performance, keep your data close to the services that need it. Region is permanent, while zone can be changed any time.

Region

us-central1 (Iowa)

Zonal availability

☒ Single zone

In case of outage, no failover. Not recommended for production.

☐ Multiple zones (Highly available)

Automatic failover to another zone within your selected region. Recommended for production instances. Increases cost.

SPECIFY ZONES

Customize your instance

You can also customize instance configurations later

Machine type

Machine Type

Choose a preset or customize your own. For better performance, choose a machine type with enough memory to hold your largest table.

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Create a MySQL instance

SPECIFY ZONES

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Choose a preset or customize your own. For better performance, choose a machine type with enough memory to hold your largest table.

Standard

1 vCPU, 3.75 GB

2 vCPU, 7.5 GB

4 vCPU, 15 GB

Custom

Storage

Storage type

Choice is permanent. Storage type affects performance.

SSD (Recommended)

Most popular choice. Lower latency than HDD with higher QPS and data throughput.

HDD

Lower performance than SSD with lower storage rates.

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Storage capacity

10 - 65,536 GB. Higher capacity improves performance, up to the limits set by the machine type. Capacity can't be decreased later.

10 GB

20 GB

100 GB

200 GB

Custom

Enable automatic storage increases

If enabled, whenever you are nearing capacity, storage will be incrementally (and permanently) increased. [Learn more](#)

ADVANCED ENCRYPTION OPTIONS

Connections

Public IP enabled

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Create a MySQL instance

Connections

Public IP enabled

Backups

Automated backups and point-in-time recovery

Protect your data from loss at a minimal cost. [Learn more](#)

☒ Automate backups

Choose a window of time for your data to be automatically backed up, which may continue outside the window until complete. Time is your local time zone (UTC+8).

1:00 PM – 5:00 PM

ADVANCED OPTIONS

☒ Enable point-in-time recovery

Allows you to recover data from a specific point in time, down to a fraction of a second. Enables binary logs (required for replication). Make sure your storage can support the days of logs you're retaining.

ADVANCED OPTIONS

Maintenance

Maintenance typically only takes place once every few months, and requires your instance to be restarted while updates are made, which disrupts service briefly

Maintenance window

Choose the best day and time window for this instance to undergo routine maintenance.

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Create a MySQL instance

Maintenance

Maintenance typically only takes place once every few months, and requires your instance to be restarted while updates are made, which disrupts service briefly

Maintenance window

Choose the best day and time window for this instance to undergo routine maintenance.

Any window

Order of update

Relative to other instances in this region

Any

ADVANCED OPTIONS

Flags

No flags set.

Labels

No labels set

HIDE CONFIGURATION OPTIONS

CREATE INSTANCE

CANCEL

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SQLInstancesCREATE INSTANCEMIGRATE DATA

HIDE INFO PANEL

FilterEnter property name or value

Instance ID	Type	Public IP address	Private IP address	Instance connection name	High availability	Location	Actions
rafligo-mysql	MySQL 5.7	34.67.36.242		qualified-sum-34551...	ADD	us-central1-f	

No instances selected

MONITORINGLABELS

No instances selected.

Add network

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SQL

PRIMARY INSTANCE

OverviewConnectionsUsersDatabasesBackupsReplicasOperations

Release Notes

Connections

You can use the Cloud SQL Proxy for extra security with either option. [Learn more](#)

Instance IP assignment

☐ Private IP

Assigns an internal, Google-hosted VPC IP address. Requires additional APIs and permissions. Can't be disabled once enabled. [Learn more](#)

☒ Public IP

Assigns an external, internet-accessible IP address. Requires using an authorized network or the Cloud SQL Proxy to connect to this instance. [Learn more](#)

Authorized networks

You can specify CIDR ranges to allow IP addresses in those ranges to access your instance. [Learn more](#)

You have added 0.0.0.0/0 as an allowed network. This prefix will allow any IPv4 client to pass the network firewall and make login attempts to your instance, including clients you did not intend to allow. Clients still need valid credentials to successfully log in to your instance.

akses dari luar (0.0.0.0/0)

(Not saved)

ADD NETWORK

Toggle item "akses dari luar (0.0.0.0/0)"

App Engine authorization

All apps in this project are authorized by default. You can use [Cloud IAM](#) to authorize apps in other projects. [Learn more](#)

SAVE

DISCARD CHANGES

Setelah itu create instance di compute engine

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Create an instance

To create a VM instance, select one of the options:

New VM instance
Create a single VM instance from scratch

New VM instance from template
Create a single VM instance from an existing template

New VM instance from machine image
Create a single VM instance from an existing machine image

Marketplace
Deploy a ready-to-go solution onto a VM instance

Name *
rafil-vm1

Labels ?
+ ADD LABELS

Region *
us-central1 (Iowa)
Region is permanent

Zone *
us-central1-a
Zone is permanent

Machine configuration

Machine family
GENERAL-PURPOSECOMPUTE-OPTIMIZEDMEMORY-OPTIMIZEDGPU
Machine types for common workloads, optimized for cost and flexibility

Series
E2
CPU platform selection based on availability

Machine type
e2-medium (2 vCPU, 4 GB memory)

vCPU
1 shared core

Memory
4 GB

✓ CPU PLATFORM AND GPU

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Marketplace
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✓ CPU PLATFORM AND GPU

Display device

Enable to use screen capturing and recording tools.

☐ Enable display device

Confidential VM service ?

☐ Enable the Confidential Computing service on this VM instance.

Container ?

Deploy a container image to this VM instance

DEPLOY CONTAINER

Boot disk ?

Name	rafil-vm1
Type	New balanced persistent disk
Size	10 GB
Image	Debian GNU/Linux 11 (bullseye)

CHANGE

Identity and API access ?

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Search

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CHANGE

Identity and API access

Service accounts

Service account

Compute Engine default service account

Requires the Service Account User role (roles/iam.serviceAccountUser) to be set for users who want to access VMs with this service account. [Learn more](#)

Access scopes

Allow default access

Allow full access to all Cloud APIs

Set access for each API

Firewall

Add tags and firewall rules to allow specific network traffic from the Internet

Allow HTTP traffic

Allow HTTPS traffic

NETWORKING, DISKS, SECURITY, MANAGEMENT, SOLE-TENANCY

You will be billed for this instance. [Compute Engine pricing](#)

CREATE

CANCEL

EQUIVALENT COMMAND LINE

Setelah kita masuk di SSH

SSH-in-browser

```

rafligo012@rafli-vm1:~$ sudo apt-get update
Get:1 http://packages.cloud.google.com/apt cloud-sdk-bullseye InRelease [6778 B]
Get:2 http://packages.cloud.google.com/apt google-cloud-packages-archive-keyring-bullseye InRelease [5557 B]
Hit:3 http://deb.debian.org/debian bullseye InRelease
Get:4 http://deb.debian.org/debian bullseye-updates InRelease [39.4 kB]
Get:5 http://packages.cloud.google.com/apt google-compute-engine-bullseye-stable InRelease [5533 B]
Get:6 http://deb.debian.org/debian bullseye-backports InRelease [44.2 kB]
Get:7 http://security.debian.org/debian-security bullseye-security InRelease [44.1 kB]
Get:8 http://packages.cloud.google.com/apt cloud-sdk-bullseye/main amd64 Packages [119 kB]
Get:9 http://packages.cloud.google.com/apt google-cloud-packages-archive-keyring-bullseye/main amd64 Packages [390 B]
Get:10 http://packages.cloud.google.com/apt google-compute-engine-bullseye-stable/main amd64 Packages [1702 B]
Get:11 http://deb.debian.org/debian bullseye-backports/main Sources.diff/Index [63.3 kB]
Ign:11 http://deb.debian.org/debian bullseye-backports/main Sources.diff/Index
Get:12 http://deb.debian.org/debian bullseye-backports/main amd64 Packages.diff/Index [63.3 kB]
Ign:12 http://deb.debian.org/debian bullseye-backports/main amd64 Packages.diff/Index
Get:13 http://deb.debian.org/debian bullseye-backports/main Translation-en.diff/Index [63.3 kB]
Get:14 http://deb.debian.org/debian bullseye-backports/main Sources [244 kB]
Get:15 http://deb.debian.org/debian bullseye-backports/main amd64 Packages [269 kB]
Get:16 http://deb.debian.org/debian bullseye-backports/main Translation-en T-2022-05-10-2005.15-F-2022-04-11-1401.40.pdiff [37.2 kB]
Get:16 http://deb.debian.org/debian bullseye-backports/main Translation-en T-2022-05-10-2005.15-F-2022-04-11-1401.40.pdiff [37.2 kB]
Get:17 http://security.debian.org/debian-security bullseye-security/main Sources [121 kB]
Get:18 http://security.debian.org/debian-security bullseye-security/main amd64 Packages [146 kB]
Get:19 http://security.debian.org/debian-security bullseye-security/main Translation-en [90.3 kB]
Fetched 1364 kB in 1s (1789 kB/s)
Reading package lists... Done
rafligo012@rafli-vm1:~$

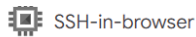
```

```

rafligo012@rafli-vm1:~$ sudo apt-get install mysql-client
Reading package lists... Done
Building dependency tree... Done
Reading state information... Done
Package mysql-client is not available, but is referred to by another package.
This may mean that the package is missing, has been obsoleted, or
is only available from another source

E: Package 'mysql-client' has no installation candidate
rafligo012@rafli-vm1:~$

```



```
Setting up mariadb-server-core-10.5 (1:10.5.15-0+deb11u1) ...
Setting up perl (5.32.1-4+deb11u2) ...
Setting up libio-html-perl (1.004-2) ...
Setting up mariadb-client-core-10.5 (1:10.5.15-0+deb11u1) ...
Setting up libtimedate-perl (2.3300-2) ...
Setting up mariadb-client-10.5 (1:10.5.15-0+deb11u1) ...
Setting up libfcgi-perl:amd64 (0.79+ds-2) ...
Setting up libterm-readkey-perl (2.38-1+b2) ...
Setting up liburi-perl (5.08-1) ...
Setting up libdbi-perl:amd64 (1.643-3+b1) ...
Setting up libhttp-date-perl (6.05-1) ...
Setting up libclone-perl (0.45-1+b1) ...
Setting up libhtml-tagset-perl (3.20-4) ...
Setting up liblwp-mediatypes-perl (6.04-1) ...
Setting up libencode-locale-perl (1.05-1.1) ...
Setting up mariadb-server-10.5 (1:10.5.15-0+deb11u1) ...
Created symlink /etc/systemd/system/multi-user.target.wants/mariadb.service → /lib/systemd/system/mariadb.service.
Setting up libdbd-mariadb-perl (1.21-3) ...
Setting up libhtml-parser-perl (3.75-1+b1) ...
Setting up libhttp-message-perl (6.28-1) ...
Setting up libcgi-pm-perl (4.51-1) ...
Setting up default-mysql-server (1.0.7) ...
Setting up libhtml-template-perl (2.97-1.1) ...
Setting up libcgi-fast-perl (1:2.15-1) ...
Processing triggers for man-db (2.9.4-2) ...
Processing triggers for libc-bin (2.31-13+deb11u3) ...
rafligo012@rafl-i-vml:~$ mysql -h 34.67.36.242 -u root -p
Enter password:
ERROR 1045 (28000): Access denied for user 'root'@'34.121.34.56' (using password: YES)
rafligo012@rafl-i-vml:~$ ^C
rafligo012@rafl-i-vml:~$ mysql -h 34.67.36.242 -u root -p
Enter password:
ERROR 1045 (28000): Access denied for user 'root'@'34.121.34.56' (using password: YES)
rafligo012@rafl-i-vml:~$ mysql -h 34.67.36.242 -u root -p
Enter password:
Welcome to the MariaDB monitor.  Commands end with ; or \g.
Your MySQL connection id is 396
Server version: 5.7.37-google-log (Google)

Copyright (c) 2000, 2018, Oracle, MariaDB Corporation Ab and others.

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

MySQL [(none)]>
```

LATIHAN 2

```
MySQL [(none)]> CREATE DATABASE bioskop;
Query OK, 1 row affected (0.007 sec)

MySQL [(none)]> SHOW DATABASE;
ERROR 1064 (42000): You have an error in your SQL syntax; check the manual that corresponds to your MySQL server version for the right syntax to use near 'DATABASE' at line 1
MySQL [(none)]> SHOW DATABASES;
+-----+
| Database |
+-----+
| information_schema |
| bioskop |
| mysql |
| performance_schema |
| sys |
+-----+
5 rows in set (0.003 sec)

MySQL [(none)]>
```

```
MySQL [(none)]> use bioskop
Database changed
MySQL [bioskop]> CREATE TABLE pelanggan (
-> id_pelanggan varchar(5) NOT NULL,
-> nama_pelanggan varchar(30) NOT NULL,
-> alamat text,
-> telepon varchar(15),
-> email varchar(30),
-> PRIMARY KEY (id_pelanggan)
-> );
Query OK, 0 rows affected (0.025 sec)

MySQL [bioskop]>
```

```
Database changed
MySQL [bioskop]> show tables;
+-----+
| Tables_in_bioskop |
+-----+
| pelanggan          |
+-----+
1 row in set (0.004 sec)

MySQL [bioskop]> 
```

```
MySQL [bioskop]> CREATE TABLE operator (
-> id VARCHAR (20) NOT NULL,
-> nama VARCHAR (50) NOT NULL,
-> password VARCHAR(100) NOT NULL,
-> created_at DATETIME NOT NULL,
-> updated_at TIMESTAMP,
-> PRIMARY KEY (id)
-> );
Query OK, 0 rows affected (0.026 sec)

MySQL [bioskop]> 
```