

## HADIAH PERTEMUAN 8

**Create a MySQL instance**

**Instance info**

Instance ID \*  
indry-mysql

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

Password \*  
indry-mysql [GENERATE](#)

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

☐ No password

Database version \*  
MySQL 5.7

**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)

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

**Summary**

Region	us-central1 (Iowa)
DB Version	MySQL 5.7
vCPUs	4 vCPU
Memory	26 GB
Storage	100 GB
Network throughput (MB/s)	1,000 of 2,000
Disk throughput (MB/s)	Read: 48.0 of 240.0 Write: 48.0 of 240.0
IOPS	Read: 3,000 of 15,000 Write: 3,000 of 15,000
Connections	Public IP
Backup	Automated
Availability	Multiple zones (Highly available)
Point-in-time recovery	Enabled

Activate Windows  
Go to Settings to activate Windows.

**Create a MySQL instance**

**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)

☐ 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. Enables binary logs (required for replication) and automatic backups. Make sure your storage can support at least 7 days of logs.

[SPECIFY ZONES](#)

**Customize your instance**

You can also customize instance configurations later

[SHOW CONFIGURATION OPTIONS](#)

[CREATE INSTANCE](#) [CANCEL](#)

**Summary**

Region	us-central1 (Iowa)
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Point-in-time recovery	Enabled

Activate Windows  
Go to Settings to activate Windows.

File Edit View History Bookmarks Tools Tabs sharing devices Help

Meet - hie-qgny-nxd indry-mysql - Overview - SQL - X

https://console.cloud.google.com/sql/instances/indry-mysql/overview?authuser=1&project=belajargcs

Google Cloud Platform belajargcs Search products and resources

SQL Overview EDIT IMPORT EXPORT RESTART STOP DELETE CLONE FAILOVER

PRIMARY INSTANCE

- Overview
- Connections
- Users
- Databases
- Backups
- Replicas
- Operations

Release Notes

indry-mysql MySQL 5.7

CPU utilization

1 hour 6 hours 1 day 7 days 30 days

No data is available for the selected time frame.

Connect to this instance Configuration

Public IP address

Type here to search

2:45 AM 5/7/2021

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Meet - hie-qgny-nxd indry-mysql - Connections - SQL - X

https://console.cloud.google.com/sql/instances/indry-mysql/connections?authuser=1&project=belajargcs

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SQL Connections

PRIMARY INSTANCE

- Overview
- Connections
- Users
- Databases
- Backups
- Replicas
- Operations

Release Notes

indry-mysql MySQL 5.7

Networking

Choose a network path for connecting to this instance. For extra security, consider using the Cloud SQL proxy. [Learn more](#)

☐ Private IP  
Requires additional APIs and permissions, which may require your system admin. Can't be disabled once enabled. [Learn more](#)

☒ Public IP  
Authorize a network or use [Cloud SQL Proxy](#) to connect to this instance. [Learn more](#)

Authorized networks

You have not authorized any external networks to connect to your Cloud SQL instance. External applications can still connect to the instance through the Cloud SQL Proxy. [Learn more](#)

ADD NETWORK

Activate Windows  
Go to Settings to activate Windows.

Type here to search

2:46 AM 5/7/2021

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Meet - hie-qgny-nxd indy-mysql - Connections - S

https://console.cloud.google.com/sql/instances/indy-mysql/connections?authuser=1&project=belajarGCS

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SQL PRIMARY INSTANCE

- Overview
- Connections
- Users
- Databases
- Backups
- Replicas
- Operations

Release Notes

Connections

instance, including clients you did not intend to allow. Clients still need valid credentials to successfully log in to your instance.

**New network**

Name  
akses publik

Use [CIDR notation](#)

Network \*  
0.0.0.0/0  
Example: 199.27.25.0/24

CANCEL DONE

ADD NETWORK

SAVE DISCARD CHANGES

Activate Windows  
Go to Settings to activate Windows.

Type here to search

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Meet - hie-qgny-nxd indy-mysql - Connections - S

https://console.cloud.google.com/sql/instances/indy-mysql/connections?authuser=1&project=belajarGCS

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SQL PRIMARY INSTANCE

- Overview
- Connections
- Users
- Databases
- Backups
- Replicas
- Operations

Release Notes

Connections

Requires additional APIs and permissions, which may require your system admin. Can't be disabled once enabled. [Learn more](#)

☒ Public IP  
Authorize a network or use [Cloud SQL Proxy](#) to connect to this instance. [Learn more](#)

**Authorized networks**

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 publik (0.0.0.0/0) (Not saved) ▼

ADD NETWORK Open

SAVE DISCARD CHANGES

**App Engine authorization**

All apps in this project are authorized by default. To authorize apps in other projects, follow the steps below.

Apps in this project: All authorized.

Activate Windows  
Go to Settings to activate Windows.

Type here to search

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Meet - hie-qgny-nxd indry-mysql - Connections - S

https://console.cloud.google.com/sql/instances/indry-mysql/connections?authuser=1&project=belajarGCS

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SQL PRIMARY INSTANCE

- Overview
- Connections
- Users
- Databases
- Backups
- Replicas
- Operations

Release Notes

### Connections

#### Authorized networks

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 publik (0.0.0.0/0)

[ADD NETWORK](#)

[SAVE](#) [DISCARD CHANGES](#)

Another operation is in progress.

#### App Engine authorization

All apps in this project are authorized by default. To authorize apps in other projects, follow the steps below.

Apps in this project: All authorized.

[AUTHORIZE APPS IN OTHER PROJECTS](#)

Activate Windows  
Go to Settings to activate Windows.

Type here to search

File Edit View History Bookmarks Tools Tabs sharing devices Help

Meet - hie-qgny-nxd Instances - SQL - belajarGCS -

https://console.cloud.google.com/sql/instances?authuser=1&project=belajarGCS

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SQL Instances [+ CREATE INSTANCE](#) [MIGRATE DATA](#) [SHOW INFO PANEL](#)

Filter Enter property name or value

Instance ID	Type	Public IP address	Private IP address	Instance connection name	High availability	Location	Storage used
indry-mysql	MySQL 5.7	34.72.119.63		belajarGCS:us-central...	ENABLED	us-central1-f	1 GB of 100 GB

Activate Windows  
Go to Settings to activate Windows.

Type here to search

File Edit View History Bookmarks Tools Tabs sharing devices Help

Meet - hie-qny-nxd VM instances - Compute Engine

https://console.cloud.google.com/compute/instances?project=belajargcs&authuser=1

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Compute Engine VM instances CREATE INSTANCE IMPORT VM REFRESH START / RESUME STOP SHOW INFO PANEL

Virtual machines

- VM instances
- Instance templates
- Sole-tenant nodes
- Machine images
- TPUs
- Migrate for Compute Engi...
- Committed use discounts

Storage

- Marketplace
- Release Notes

Filter Enter property name or value

Name	Zone	Recommendations	In use by	Internal IP	External IP	Connect
------	------	-----------------	-----------	-------------	-------------	---------

VM instances

Compute Engine lets you use virtual machines that run on Google's infrastructure. Create micro-VMs or larger instances running Debian, Windows, or other standard images. Create your first VM instance, import it using a migration service, or try the quickstart to build a sample app.

Activate Windows  
Go to Settings to activate Windows.

https://console.cloud.google.com/compute/instancesAdd?authuser=1&project=belajargcs

Type here to search

File Edit View History Bookmarks Tools Tabs sharing devices Help

Meet - hie-qny-nxd Google Cloud Platform

https://console.cloud.google.com/compute/instancesAdd?authuser=1&project=belajargcs&rif\_reserved

Google Cloud Platform belajarGCS Search products and resources

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

Name is permanent

indry-vm1

Labels (Optional)

+ Add label

Region

Region is permanent

us-central1 (Iowa)

Zone

Zone is permanent

us-central1-a

Machine configuration

Machine family

General-purpose Compute-optimized Memory-optimized GPU

Machine types for common workloads, optimized for cost and flexibility

Series

N1

Powered by Intel Skylake CPU platform or one of its predecessors

Machine type

n1-standard-1 (1 vCPU, 3.75 GB memory)

vCPU 1 Memory 3.75 GB GPUs -

You have Rp3,329,273.982368 free trial credits remaining

\$25.27 monthly estimate

That's about \$0.035 hourly

Pay for what you use: No upfront costs and per second billing

Details

Activate Windows  
Go to Settings to activate Windows.

Type here to search

File Edit View History Bookmarks Tools Tabs sharing devices Help

Meet - hie-qgny-nxd Google Cloud Platform

https://console.cloud.google.com/compute/instancesAdd?authuser=1&project=belajargcs&rif\_reserved

Google Cloud Platform belajarGCS Search products and resources

Create an instance

New 10 GB balanced persistent disk  
Image  
Debian GNU/Linux 10 (buster) Change

Identity and API access

Service account  
Compute Engine default service account

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

Management, security, disks, networking, sole tenancy

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

Create Cancel

Equivalent REST or command line

Activate Windows  
Go to Settings to activate Windows.

Type here to search

2:54 AM 5/7/2021

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Meet - hie-qgny-nxd VM instances - Compute Engine

https://console.cloud.google.com/compute/instances?project=belajargcs&authuser=1&onCreate=true

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Compute Engine

VM instances CREATE INSTANCE IMPORT VM REFRESH START / RESUME SHOW INFO PANEL LEARN

Virtual machines

VM instances

Instance templates

Sole-tenant nodes

Machine images

TPUs

Migrate for Compute Engi...

Committed use discounts

Storage

Marketplace

Release Notes

INSTANCES INSTANCE SCHEDULE

Filter Enter property name or value

<input type="checkbox"/>	<input checked="" type="checkbox"/>	Name	Zone	Recommendations	In use by	Internal IP	External IP	Connect
<input type="checkbox"/>	<input checked="" type="checkbox"/>	indry-vm1	us-central1-a			10.128.0.5 (nic0)	34.70.67.4	SSH

Related Actions

DISMISS

View Billing Report  
View and manage your Compute Engine billing

Monitor VMs  
View outlier VMs across metrics like CPU and Network

Explore VM Logs  
View, search, analyze, and download VM instance logs

Setup Firewall Rules  
Control traffic to and from a VM instance

Patch Management  
Schedule patch updates and view patch compliance on VM instances

Activate Windows  
Go to Settings to activate Windows.

Type here to search

2:54 AM 5/7/2021

```
Connected, host fingerprint: ssh-rsa 0 4B:5E:69:D1:2B:49:AE:1E:A7:60:BF:E3:99:17
:E2:2B:C9:B4:4C:B4:DE:48:25:52:5E:1C:F6:F7:BF:BC:05:A4
Linux indry-vm1 4.19.0-16-cloud-amd64 #1 SMP Debian 4.19.181-1 (2021-03-19) x86_
64

The programs included with the Debian GNU/Linux system are free software;
the exact distribution terms for each program are described in the
individual files in /usr/share/doc/*/copyright.

Debian GNU/Linux comes with ABSOLUTELY NO WARRANTY, to the extent
permitted by applicable law.
beatriceindry162000@indry-vm1:~$ sudo apt-get update
```

The screenshot displays the Google Cloud Platform (GCP) console interface. The top navigation bar includes the 'Google Cloud Platform' logo, the project name 'belajarGCS', and a search bar. The left sidebar shows the 'SQL' instance overview with a list of tabs: Overview, Connections, Users, Databases, Backups, Replicas, and Operations. The main content area is titled 'Overview' and features several sections:

- Connect to this instance:** Displays the public IP address '34.72.119.63' and the connection name 'belajargcs:us-central1:indry-mysql'. It provides options to 'Connect using Cloud Shell', 'Connect from a Compute Engine VM instance', and 'See all connection methods'.
- Configuration:** A table showing instance specifications: 4 vCPUs, 26 GB Memory, and 100 GB SSD storage. Below the table, it lists various settings: Database version is MySQL 5.7, Auto storage increase is enabled, Automated backups are enabled, Point-in-time recovery is enabled, Located in us-central1-f, Highly available (regional), No database flags set, and No labels set.
- Service account:** Shows the service account 'cloud-sql.iam.gservice'.

The bottom of the screen shows a Windows taskbar with the search bar and several application icons. The system clock indicates the time is 2:59 AM on 5/7/2021.



## Compute Engine

2. Click [Create instance](#)
3. The default configuration is fine (you can always change it later)
4. Click [Create](#)

### Step 2. Reserve a static IP address

Your VM instance needs a static IP address to talk to your SQL instance. To do that:

1. Open the [navigation menu](#). Under **Networking** click **VPC Network**



## VPC network

2. Click [External IP addresses](#) in the navigation submenu
3. In the **In use by** column, find your instance's name
4. In the **Type** column, make sure your instance's external IP address is static
  - If it's ephemeral, then click and reserve a new static Address

Remember the IP address in the **External Address** column (you'll need it later)

Go to Settings to activate Windows.

Start



click **Compute Engine**.



Compute Engine

2. Find the VM instance you connected to. In the **Connect** column, click the **down arrow** and then click **View gcloud command**
3. Click **Run in Cloud Shell**
4. Give it a moment to connect. You may be asked to create SSH keys if you haven't before. Go ahead and do that.

### Install MySQL client

1. Once you're connected to your VM instance, enter the following into the terminal:

```
$ sudo apt-get update
```



2. Then enter:

```
$ sudo apt-get install \
  default-mysql-server
```



Enter "y" when asked to install

3. Enter the following and replace [INSTANCE\_IP\_ADDR] with the IP address of your own Cloud SQL

Activate Windows  
Go to Settings to activate Windows.

[Previous](#)

Step 2 of 3

[Next](#)

```
beatriceindry162000@indry-vm1:~$ sudo apt-get install \
> default-mysql-server
```

```

beatriceindryl62000@indry-vm1:~$ mysql -h 34.72.119.63 -u root -p
Enter password:
Welcome to the MariaDB monitor.  Commands end with ; or \g.
Your MySQL connection id is 319
Server version: 5.7.33-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)]> CREATE DATABASE kharisma;
Query OK, 1 row affected (0.005 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      |
| bioskp                  |
| kharisma                 |
| mysql                   |
| performance_schema      |
| sys                     |
+-----+
6 rows in set (0.002 sec)

```

```

MySQL [(none)]> use kharisma
Database changed
MySQL [kharisma]> CREATE TABLE anggota (
  -> Nis VARCHAR (8) NOT NULL,
  -> nasis VARCHAR (50) NOT NULL,
  -> Kelas VARCHAR (10) NOT NULL,
  -> Tlahir DATE NOT NULL,
  -> alamat VARCHAR (20) NOT NULL,
  -> jkel VARCHAR (20) NOT NULL,
  -> nohp VARCHAR (12) NOT NULL
  -> );
Query OK, 0 rows affected (0.025 sec)

```

```

MySQL [kharisma]> CREATE TABLE buku (
  -> kodebuku VARCHAR (8) NOT NULL,
  -> jubuk VARCHAR (50) NOT NULL,
  -> jml INT (3) NOT NULL,
  -> jenbuk VARCHAR (10) NOT NULL,
  -> peng VARCHAR (20) NOT NULL,
  -> pen VARCHAR (20) NOT NULL,
  -> thter VARCHAR (4) NOT NULL,
  -> isbn VARCHAR (20) NOT NULL,
  -> PRIMARY KEY (kodebuku)
  -> );
Query OK, 0 rows affected (0.025 sec)

```

```
MySQL [kharisma]> show tables;
```

```
+-----+  
| Tables_in_kharisma |
```

```
+-----+
```

```
| anggota             |
```

```
| buku                |
```

```
+-----+
```

```
2 rows in set (0.002 sec)
```