

## Connecting Virtual machine with a SQL server in gcp



Lets first create a Virtual machine

Click on ☰ click on compute -> instances -> create instance

Click on OS and storage

Change OS to ubuntu

[←](#) Create an instance [✦ Create VM from...](#)

- Machine configuration  
e2-medium, us-central1
- OS and storage**  
Debian GNU/Linux 12 (bookworm)
- Data protection  
Snapshot schedules
- Networking

### Operating system and storage

Name	instance-20250502-060950
Type	New balanced persistent disk
Size	10 GB
Snapshot schedule <a href="#">?</a>	No schedule selected
License type <a href="#">?</a>	Free
Image	Debian GNU/Linux 12 (bookworm)

Change

Public images

Custom image

Operating system

Ubuntu

Version \*

Ubuntu 25.04 Minimal

x86/64, amd64 plucky minimal image built

Boot disk type \*

Balanced persistent disk

Compare disk types

Size (GB) \*

10

Provision between 10 and 65536 GB

▼ Show advanced configuration

Select

Cancel

Select ubuntu

Click networking

In firewall you don't have to select anything

## Networking

### Firewall ⓘ

Add tags and firewall rules to allow specific network traffic

- ☐ Allow HTTP traffic
- ☐ Allow HTTPS traffic
- ☐ Allow Load Balancer Health Checks

No need to select any rules

- Networking  
1 network interface
- Observability
- Security
- Advanced

**Network bandwidth** ?

☐ Enable per VM Tier\_1 networking performance

Maximum outbound network bandwidth: 2Gbps  
VM to Public IP: 2Gbps

**Network interfaces** ?

Network interface is permanent

▼

default default IPv4 (10.128.0.0/20)

🗑

[Add a network interface](#)

In external ipv4 address

Reserve static ext ip address

Ubuntu 20.04 LTS (LTS)

- Data protection  
Snapshot schedules
- Networking  
1 network interface
- Observability
- Security
- Advanced

**Alias IP ranges**

[+ Add IP range](#)

External IPv4 address

Filter

Type to filter

?

None

Ephemeral

Reserve static external IP address

☐ Enable for IPv4

### Reserve a static external IP address

Name \*

myip

Lowercase letters, numbers, hyphens allowed

Description

Cancel Reserve

VM instances

Create instance

Import VM

Refresh

Instances

Observability

Instance schedules

VM instances

Filter

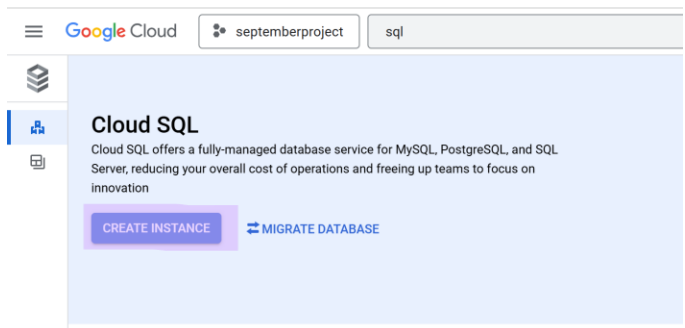
Enter property name or value

<input type="checkbox"/>	Status	Name <span>↑</span>	Zone	Recommendations	In use by	Internal IP	External IP	Connect
<input type="checkbox"/>		<a href="#">instance-20250502-060950</a>	us-central1-c			10.128.0.24 <a href="#">(nic0)</a>	34.45.215.102 <a href="#">(nic0)</a>	SSH <div></div>

Related actions

You can establish the ssh connection

## now lets create SQL



choose MYSQL

Select enterprises

In edition present: Sandbox

SHOW MINOR VERSIONS

Instance ID \*

sqlinstance

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

Password \*

password

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

☐ No password

Show configuration options

Click on connections

Add a network

### Connections

Choose how you want your source to connect to this instance, and which networks are authorized to connect. [Learn more](#)

You can use the Cloud SQL Proxy for extra security with either connection type.

#### Instance IP assignment

☐ Private IP

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

☒ Public IP

Assigns an external, internet-accessible IP address. Requires use of 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 connect to this instance. [Learn more](#)



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

ADD A NETWORK

Google Cloud services authentication

### New network

Name  
None

Use [CIDR notation](#)

Network \*




34.45.215.102

Example: 199.27.25.0/24

DONE

Public ip of machine (ext ip)

Create instance

Filter Enter property name or value							
<input type="checkbox"/> Status	Instance ID  	Issues	Cloud SQL edition	Type	Public IP address	Private IP	
<input type="checkbox"/> 	sqlinstance		Enterprise	MySQL 8.0	34.9.193.156		

Copy the public ip

Open CLI of the machine

sudo su

apt update

apt install mysql-client -y

mysql --host=ipaddressofsql --user=root --password

Sql public ip address

```
root@instance-20250502-060950:/home/akshu20791# mysql --host=34.9.193.156 --user=root --password
Enter password:
Welcome to the MySQL monitor.  Commands end with ; or \g.
Your MySQL connection id is 130
Server version: 8.0.40-google (Google)

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

mysql> exit
```