

# MySQL 설치

## 단계1: Adding the MySQL Yum Repository

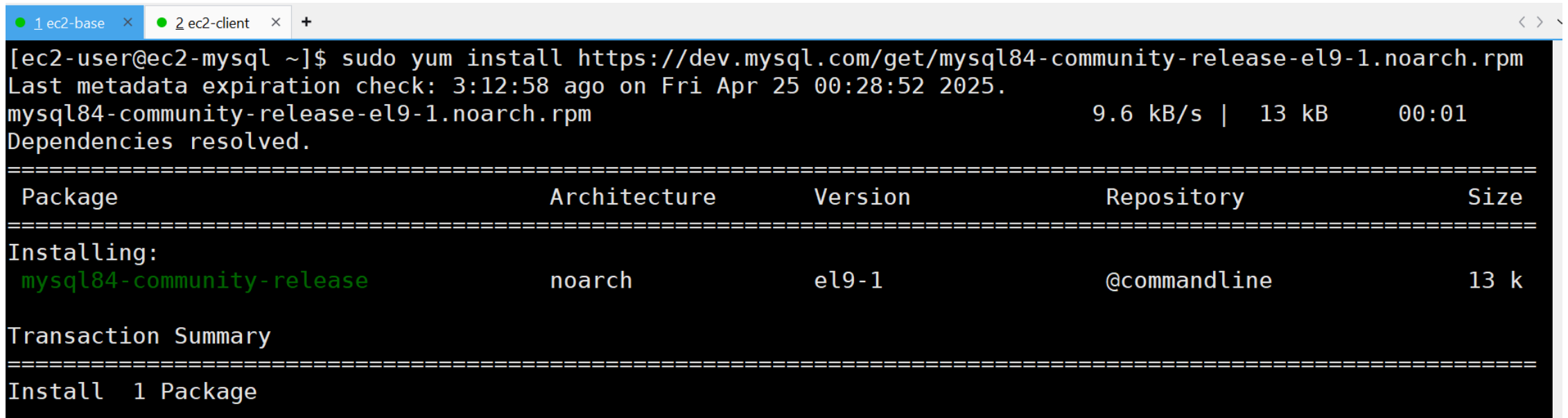
- 최신버전 복사

**Repository Setup Packages** ⓘ

<b>Red Hat Enterprise Linux 9 / Oracle Linux 9 (Architecture Independent), RPM Package</b> (mysql84-community-release-el9-1.noarch.rpm) ←	12.8K	<a href="#">Download</a>
<b>Red Hat Enterprise Linux 8 / Oracle Linux 8 (Architecture Independent), RPM Package</b> (mysql84-community-release-el8-1.noarch.rpm)	15.0K	<a href="#">Download</a>

- 설치

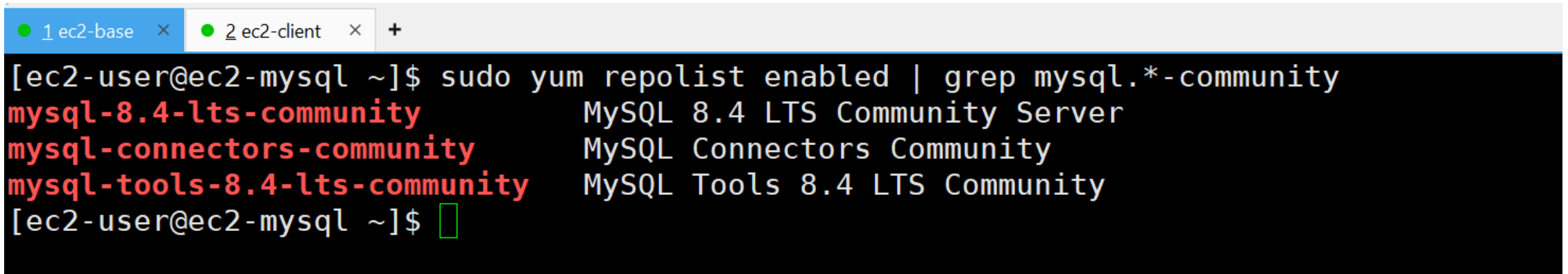
```
# sudo yum install https://dev.mysql.com/get/{최신 버전} -y
sudo yum install https://dev.mysql.com/get/mysql84-community-release-el9-1.noarch.rpm -y
```



```
[ec2-user@ec2-mysql ~]$ sudo yum install https://dev.mysql.com/get/mysql84-community-release-el9-1.noarch.rpm
Last metadata expiration check: 3:12:58 ago on Fri Apr 25 00:28:52 2025.
mysql84-community-release-el9-1.noarch.rpm          9.6 kB/s | 13 kB      00:01
Dependencies resolved.
=====
Package                                Architecture    Version         Repository      Size
=====
Installing:
mysql84-community-release              noarch          el9-1           @commandline    13 k
Transaction Summary
=====
Install 1 Package
```

- 설치 결과 확인

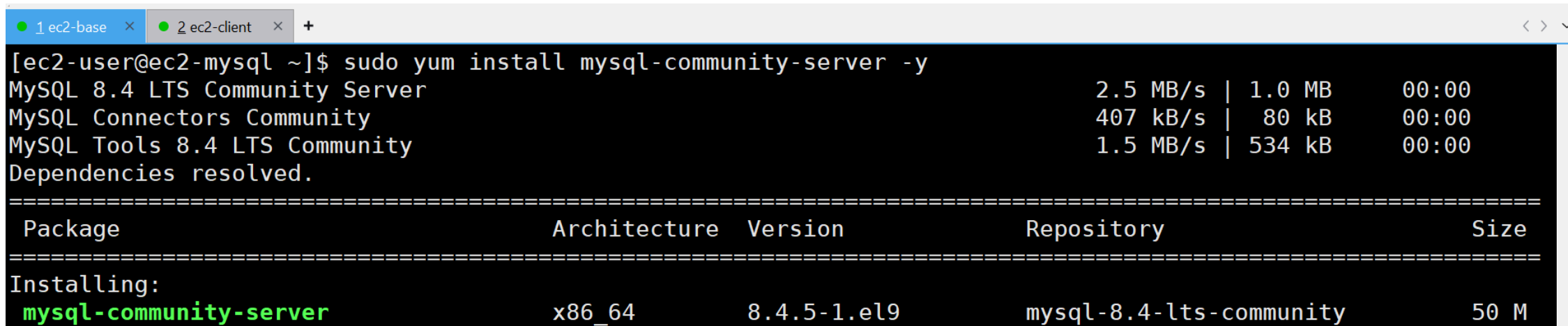
```
sudo yum repolist enabled | grep mysql.*-community
```



```
[ec2-user@ec2-mysql ~]$ sudo yum repolist enabled | grep mysql.*-community
mysql-8.4-lts-community      MySQL 8.4 LTS Community Server
mysql-connectors-community  MySQL Connectors Community
mysql-tools-8.4-lts-community MySQL Tools 8.4 LTS Community
[ec2-user@ec2-mysql ~]$
```

## 단계2: Installing MySQL

```
sudo yum install mysql-community-server -y
```




The terminal window shows the command `sudo yum install mysql-community-server -y` being executed. The output indicates that MySQL 8.4 LTS Community Server, MySQL Connectors Community, and MySQL Tools 8.4 LTS Community are being installed. A table of installed packages is displayed below the output.

Package	Architecture	Version	Repository	Size
Installing: <b>mysql-community-server</b>	x86_64	8.4.5-1.el9	mysql-8.4-lts-community	50 M

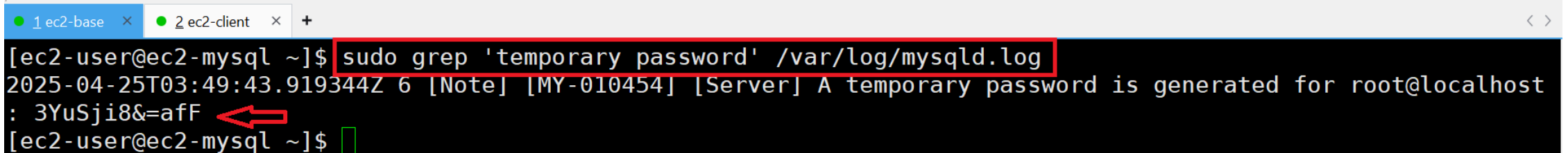
## 단계3: Starting the MySQL Server

```
# start mysql server
sudo systemctl start mysqld
sudo systemctl status mysqld
```

```
[ec2-user@ec2-mysql ~]$ sudo systemctl start mysqld
[ec2-user@ec2-mysql ~]$
[ec2-user@ec2-mysql ~]$ sudo systemctl status mysqld
● mysqld.service - MySQL Server
   Loaded: loaded (/usr/lib/systemd/system/mysqld.service; enabled; preset: disabled)
   Active:  active (running) since Fri 2025-04-25 03:49:48 UTC; 46s ago
     Docs: man:mysqld(8)
           http://dev.mysql.com/doc/refman/en/using-systemd.html
   Process: 33080 ExecStartPre=/usr/bin/mysqld_pre_systemd (code=exited, status=0/SUCCESS)
```

## 단계4: 임시 비밀번호 확인

```
sudo grep 'temporary password' /var/log/mysqld.log
```



A terminal window with two tabs: '1 ec2-base' and '2 ec2-client'. The active tab '2 ec2-client' shows a terminal session. The prompt is '[ec2-user@ec2-mysql ~]\$'. The command 'sudo grep 'temporary password' /var/log/mysqld.log' is entered and highlighted with a red box. The output is '2025-04-25T03:49:43.919344Z 6 [Note] [MY-010454] [Server] A temporary password is generated for root@localhost : 3YuSji8&=afF'. A red arrow points to the password '3YuSji8&=afF'. The prompt returns to '[ec2-user@ec2-mysql ~]\$' with a green cursor.

```
[ec2-user@ec2-mysql ~]$ sudo grep 'temporary password' /var/log/mysqld.log
2025-04-25T03:49:43.919344Z 6 [Note] [MY-010454] [Server] A temporary password is generated for root@localhost
: 3YuSji8&=afF
[ec2-user@ec2-mysql ~]$
```

## 단계5: mysql server 접속

```
mysql -u root -p # 임시 비밀번호 적용
```

```
[ec2-user@ec2-mysql ~]$ mysql -u root -p
Enter password: 
Welcome to the MySQL monitor.  Commands end with ; or \g.
Your MySQL connection id is 10
Server version: 8.4.5

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affiliates. Other names may be trademarks of their respective
owners.

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

mysql> 
```



## 단계6: 비밀번호 변경하기

```
# 비밀번호 변경하기
ALTER user 'root'@'localhost' IDENTIFIED WITH caching_sha2_password BY 'Qwer1234!';
# 변경된 내용 적용하기
FLUSH PRIVILEGES;
# mysql server에서 나오기
exit
```

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

```
mysql> ALTER user 'root'@'localhost' IDENTIFIED WITH caching_sha2_password BY 'Qwer1234!';
Query OK, 0 rows affected (0.01 sec)
```

```
mysql> FLUSH PRIVILEGES;
Query OK, 0 rows affected (0.00 sec)
```

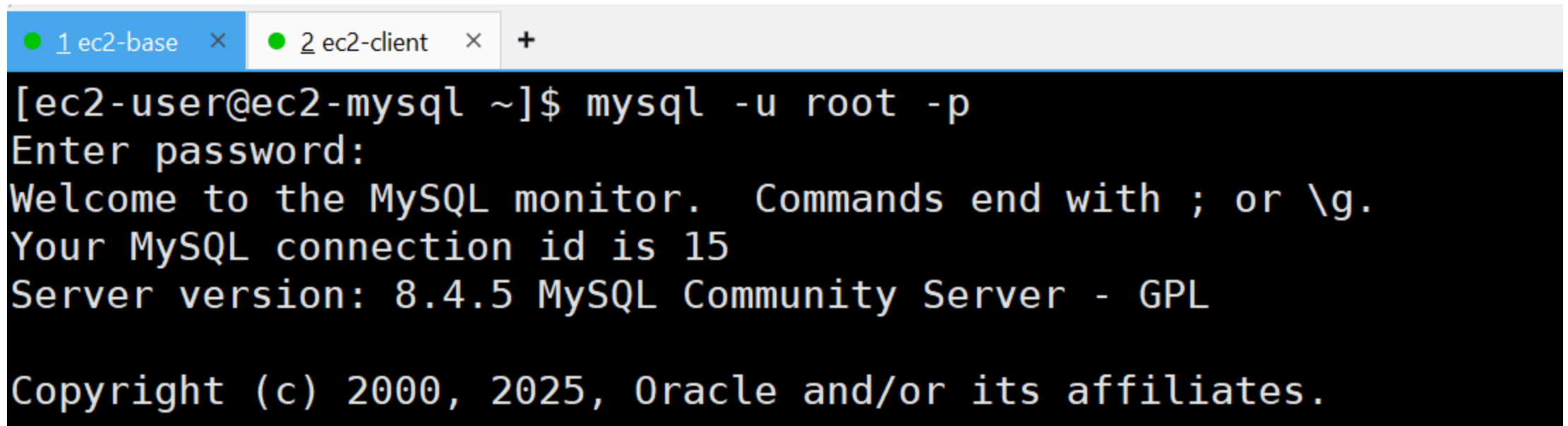
```
mysql> exit
```

Bye

```
[ec2-user@ec2-mysql ~]$
```

- 재접속

```
mysql -u root -p # 변경한 비밀번호 적용
```



A terminal window with two tabs: '1 ec2-base' and '2 ec2-client'. The active tab '2 ec2-client' shows the following text:

```
[ec2-user@ec2-mysql ~]$ mysql -u root -p
Enter password:
Welcome to the MySQL monitor.  Commands end with ; or \g.
Your MySQL connection id is 15
Server version: 8.4.5 MySQL Community Server - GPL

Copyright (c) 2000, 2025, Oracle and/or its affiliates.
```

- sql 테스트

```
show databases;  
exit
```

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

```
mysql> show databases;
```

Database
information_schema
mysql
performance_schema
sys

```
4 rows in set (0.01 sec)
```

```
mysql> exit
```

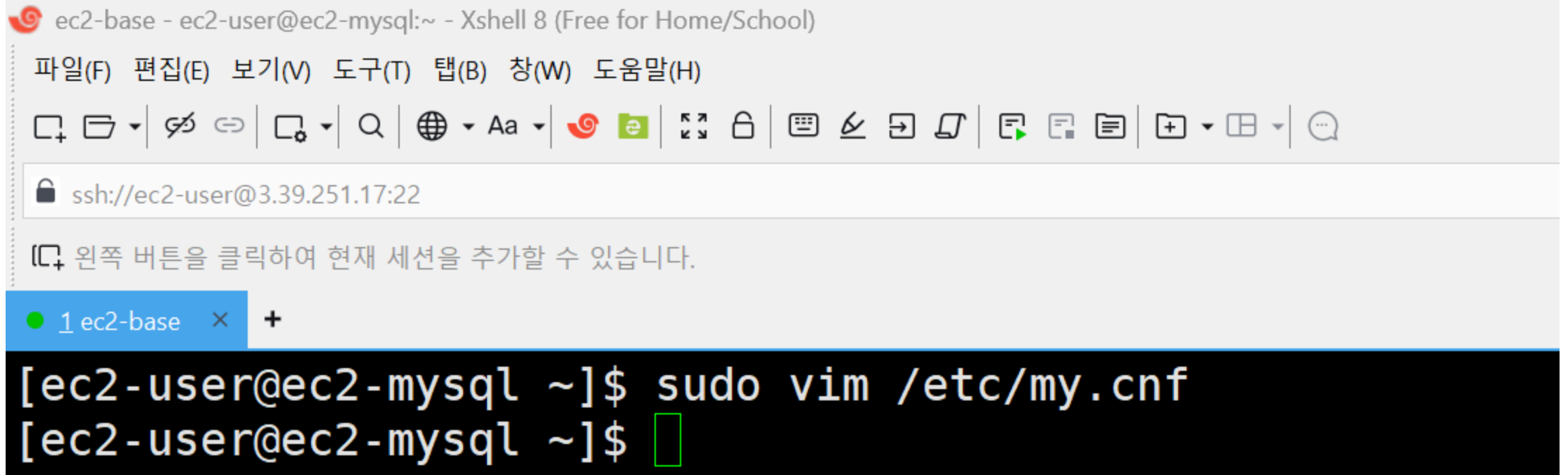
```
Bye
```

```
[ec2-user@ec2-mysql ~]$
```

## 단계7: 외부아이피 허용 설정

- Ubuntu 계열: /etc/mysql/mysql.conf.d/mysqld.cnf
- 아마존 리눅스 등 CentOS 계열: /etc/my.cnf

```
sudo vim /etc/my.cnf
```



```
ec2-base - ec2-user@ec2-mysql:~ - Xshell 8 (Free for Home/School)
파일(F) 편집(E) 보기(V) 도구(T) 탭(B) 창(W) 도움말(H)
ssh://ec2-user@3.39.251.17:22
원쪽 버튼을 클릭하여 현재 세션을 추가할 수 있습니다.
1 ec2-base x +
[ec2-user@ec2-mysql ~]$ sudo vim /etc/my.cnf
[ec2-user@ec2-mysql ~]$
```

# 아래내용 입력

port = 3306

bind-address = 0.0.0.0

mysqlx-bind-address = 0.0.0.0

```
pid-file=/var/run/mysqld/mysqld.pid
```

# 아래 내용 입력

port = 3306

bind-address = 0.0.0.0

mysqlx-bind-address = 0.0.0.0

~

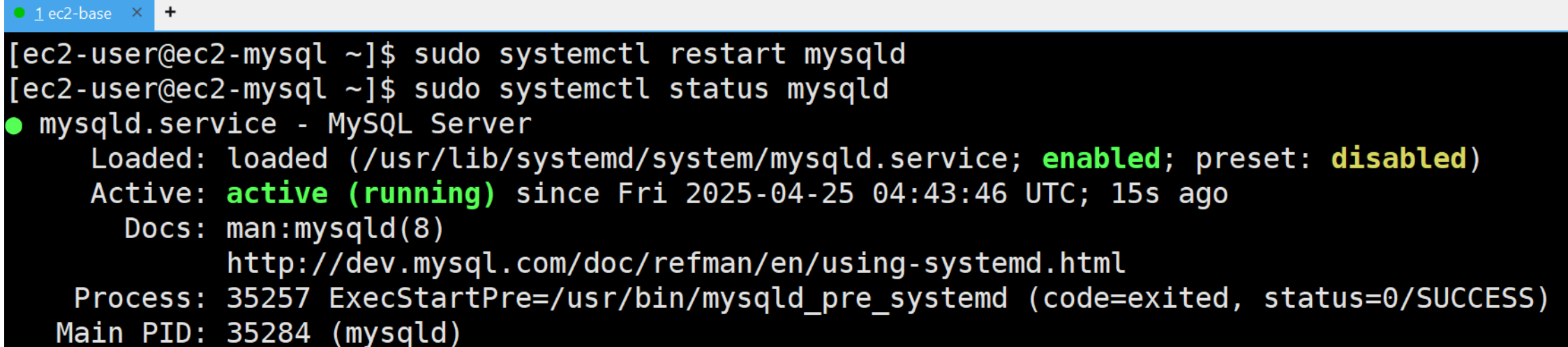
~

~

:wq!

## 단계8: mysql server 재실행

```
sudo systemctl restart mysqld  
sudo systemctl status mysqld
```



A terminal window titled '1 ec2-base' with a '+' icon. The terminal shows the following commands and output:

```
[ec2-user@ec2-mysql ~]$ sudo systemctl restart mysqld  
[ec2-user@ec2-mysql ~]$ sudo systemctl status mysqld  
● mysqld.service - MySQL Server  
   Loaded: loaded (/usr/lib/systemd/system/mysqld.service; enabled; preset: disabled)  
   Active: active (running) since Fri 2025-04-25 04:43:46 UTC; 15s ago  
     Docs: man:mysqld(8)  
           http://dev.mysql.com/doc/refman/en/using-systemd.html  
  Process: 35257 ExecStartPre=/usr/bin/mysqld_pre_systemd (code=exited, status=0/SUCCESS)  
 Main PID: 35284 (mysqld)
```

## 단계9: 외부아이피 허용 확인

```
# 외부 아이피 허용 확인  
sudo netstat -ntlp | grep mysqld
```

A terminal window titled '1 ec2-base' with a dark background. The prompt is '[ec2-user@ec2-mysql ~]\$'. The command 'sudo netstat -ntlp | grep mysqld' has been executed, resulting in two lines of output. Each line shows 'tcp' as the protocol, '0' for the first two columns, '0.0.0.0:33060' and '0.0.0.0:3306' for the third and fourth columns, '0.0.0.0:\*' for the fifth column, 'LISTEN' for the sixth column, and '35284/mysqld' for the seventh column. The 'mysqld' part is highlighted in red. The prompt is followed by a green cursor.

```
[ec2-user@ec2-mysql ~]$ sudo netstat -ntlp | grep mysqld  
tcp        0      0 0.0.0.0:33060          0.0.0.0:*          LISTEN      35284/mysqld  
tcp        0      0 0.0.0.0:3306           0.0.0.0:*          LISTEN      35284/mysqld  
[ec2-user@ec2-mysql ~]$
```

## 단계10: 아이피로 접속 가능한 계정 생성

- mysql server 접속

```
mysql -u root -p
```

- 계정 생성

```
-- 유저 생성  
create user 'ec2'@'%' identified by 'Qwer1234!';  
-- 유저 조회  
select user, host from mysql.user;
```



```
mysql> create user 'ec2'@'%' identified by 'Qwer1234!';
```

```
Query OK, 0 rows affected (0.02 sec)
```

```
mysql> select user, host from mysql.user;
```

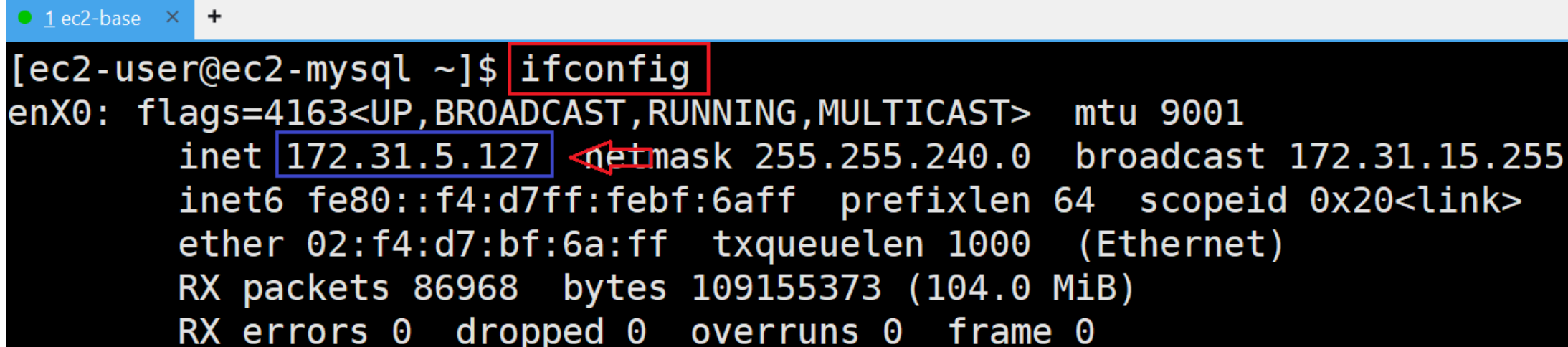
user	host
ec2	%
mysql.infoschema	localhost
mysql.session	localhost
mysql.sys	localhost
root	localhost

```
5 rows in set (0.00 sec)
```

```
mysql> exit
```

## 단계11: 내부 아이피 확인

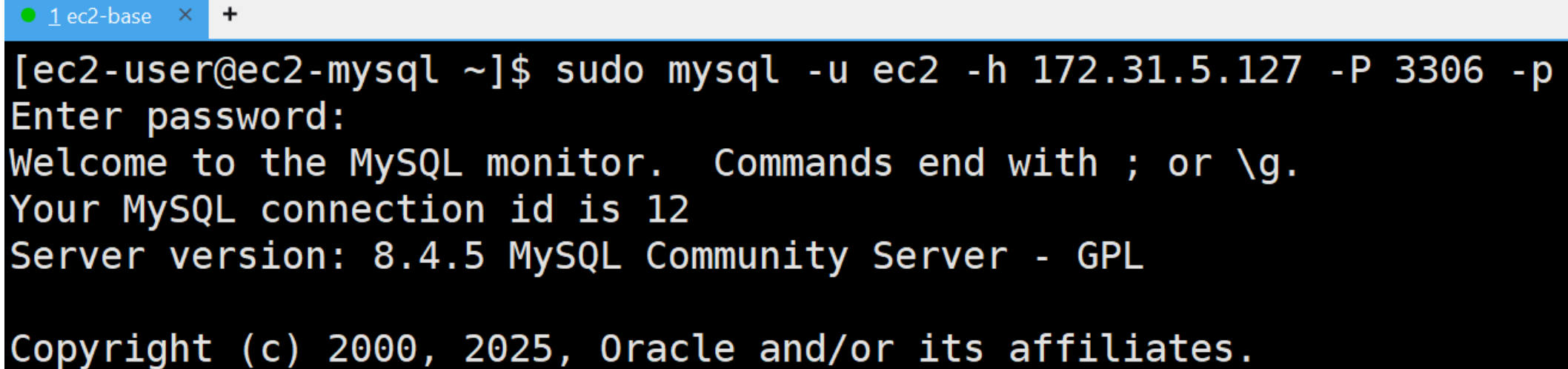
```
# 내부 ip 확인  
ifconfig
```



```
1 ec2-base x +  
[ec2-user@ec2-mysql ~]$ ifconfig  
enX0: flags=4163<UP,BROADCAST,RUNNING,MULTICAST> mtu 9001  
    inet 172.31.5.127 netmask 255.255.240.0 broadcast 172.31.15.255  
    inet6 fe80::f4:d7ff:febf:6aff prefixlen 64 scopeid 0x20<link>  
    ether 02:f4:d7:bf:6a:ff txqueuelen 1000 (Ethernet)  
    RX packets 86968 bytes 109155373 (104.0 MiB)  
    RX errors 0 dropped 0 overruns 0 frame 0
```

## 단계12: ip를 이용해서 ec2 계정으로 접속

```
# 내부 ip를 이용하여 접속
sudo mysql -u ec2 -h 172.31.5.127 -P 3306 -p
```

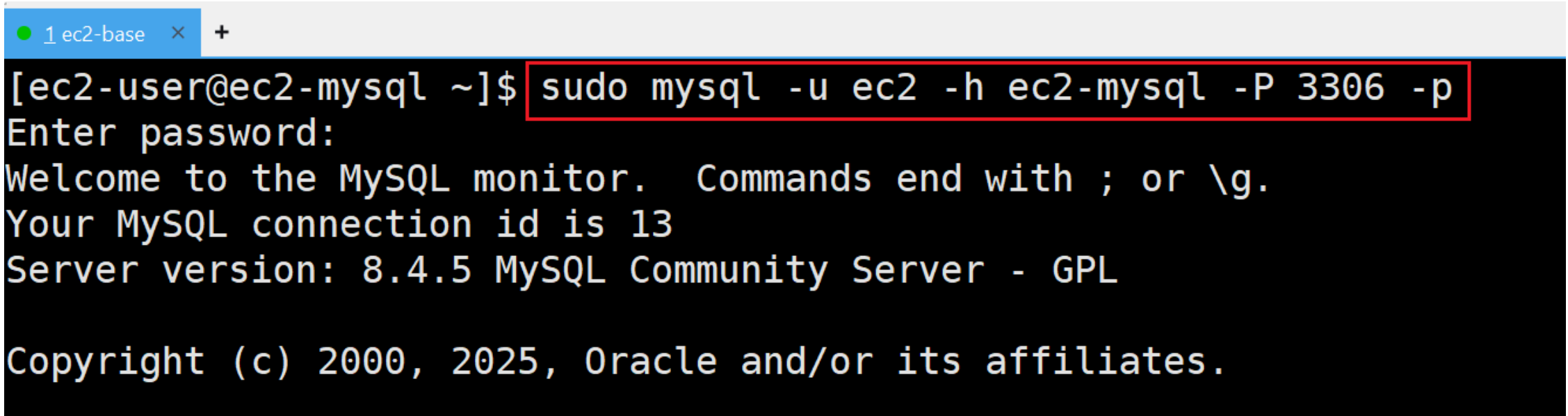
A terminal window titled '1 ec2-base' with a plus sign icon. The terminal shows the execution of the command 'sudo mysql -u ec2 -h 172.31.5.127 -P 3306 -p'. The prompt is '[ec2-user@ec2-mysql ~]\$'. The output shows 'Enter password:', followed by a welcome message: 'Welcome to the MySQL monitor. Commands end with ; or \g.', then 'Your MySQL connection id is 12', 'Server version: 8.4.5 MySQL Community Server - GPL', and finally 'Copyright (c) 2000, 2025, Oracle and/or its affiliates.'

```
1 ec2-base × +
[ec2-user@ec2-mysql ~]$ sudo mysql -u ec2 -h 172.31.5.127 -P 3306 -p
Enter password:
Welcome to the MySQL monitor.  Commands end with ; or \g.
Your MySQL connection id is 12
Server version: 8.4.5 MySQL Community Server - GPL

Copyright (c) 2000, 2025, Oracle and/or its affiliates.
```

## 단계12: hostname을 이용해서 ec2 계정으로 접속

```
# 내부 ip를 이용하여 접속  
sudo mysql -u ec2 -h ec2-mysql -P 3306 -p
```



A terminal window titled "1 ec2-base" with a plus sign icon. The prompt is "[ec2-user@ec2-mysql ~]\$". The command "sudo mysql -u ec2 -h ec2-mysql -P 3306 -p" is entered and highlighted with a red box. The output shows the MySQL monitor interface with the following text: "Enter password:", "Welcome to the MySQL monitor. Commands end with ; or \g.", "Your MySQL connection id is 13", "Server version: 8.4.5 MySQL Community Server - GPL", and "Copyright (c) 2000, 2025, Oracle and/or its affiliates."

```
[ec2-user@ec2-mysql ~]$ sudo mysql -u ec2 -h ec2-mysql -P 3306 -p  
Enter password:  
Welcome to the MySQL monitor.  Commands end with ; or \g.  
Your MySQL connection id is 13  
Server version: 8.4.5 MySQL Community Server - GPL  
  
Copyright (c) 2000, 2025, Oracle and/or its affiliates.
```

## 단계13: 테스트

```
show databases;
```

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

```
mysql> show databases;
```

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

```
| Database |
```

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

```
| information_schema |
```

```
| performance_schema |
```

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

```
2 rows in set (0.00 sec)
```

```
mysql> 
```