



## Installing and Configuring MySQL on AWS Linux: A Practical Guide to Managing Databases in Cloud Environments

This document details the step-by-step process of installing MySQL via binary installation on an AWS Linux environment, followed by essential database management tasks. It serves as a comprehensive guide for mastering database configuration and administration in a cloud-based Linux setup.

Key highlights include:

- **Binary Installation Process:** Detailed steps for installing MySQL from binaries, emphasizing the advantages of this approach over package managers for custom configurations.
- **Environment Setup:** Configuring the AWS Linux environment, including prerequisites and security considerations to ensure a stable installation.
- **User Management and Permissions:** Managing user accounts, assigning roles, and setting up secure access controls to safeguard database operations.
- **Database Creation and Operations:** Practical tasks such as creating databases, managing tables, and executing queries to build hands-on expertise in relational database management.
- **Performance Optimization:** Exploring configuration tweaks to enhance database performance and ensure efficient operation in a cloud environment.
- **Troubleshooting and Error Resolution:** Addressing common installation and operational issues with actionable solutions to maintain a seamless workflow.

This guide provides an in-depth look at working with MySQL in AWS Linux environments, bridging the gap between database administration and cloud infrastructure. It highlights challenges faced during the process, their resolutions, and key learnings, making it a valuable resource for database and DevOps enthusiasts.



## EC2 Instance Creating Steps

aws [Alt+S] N. Virginia Thisara Kandage

EC2 > Instances > Launch an instance

**Name and tags** [Info](#)

Name: My SQL Server [Add additional tags](#)

**Application and OS Images (Amazon Machine Image)** [Info](#)

An AMI is a template that contains the software configuration (operating system, application server, and applications) required to launch your instance. Search or Browse for AMIs if you don't see what you are looking for below

Search our full catalog including 1000s of application and OS images

Recents Quick Start

Amazon Linux macOS Ubuntu Windows Red Hat SUSE Linux Debian

Amazon Machine Image (AMI)

Ubuntu Server 24.04 LTS (HVM), SSD Volume Type  
ami-0e2c8caa4b6378d8c (64-bit (x86)) / ami-0932ffb546ea84d48 (64-bit (Arm)) Free tier eligible

**Summary**

Number of instances [Info](#): 1

Software Image (AMI): Canonical, Ubuntu, 24.04, amd64...[read more](#)  
ami-0e2c8caa4b6378d8c

Virtual server type (instance type): t2.micro

Firewall (security group): launch-wizard-3

Storage (volumes): 1 volume(s) - 8 GiB

Free tier: In your first year includes 750 hours of t2.micro (or t3.micro in the Regions in which... [X](#)

[Cancel](#) [Launch instance](#) [Preview code](#)

## Create Key pair

aws [Alt+S] N. Virginia Thisara Kandage

EC2 > Instances > Launch an instance

**Create key pair**

Key pair name: AWSLinuxAssign  
Key pairs allow you to connect to your instance securely. The name can include up to 255 ASCII characters. It can't include leading or trailing spaces.

Key pair type: ☒ RSA (RSA encrypted private and public key pair) ☐ ED25519 (ED25519 encrypted private and public key pair)

Private key file format: ☒ .pem (For use with OpenSSH) ☐ .ppk (For use with PuTTY)

When prompted, store the private key in a secure and accessible location on your computer. You will need it later to connect to your instance. [Learn more](#)

[Cancel](#) [Create key pair](#)



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▼ Configure storage Info

Advanced

1x  GiB  Root volume (Not encrypted)

Free tier eligible customers can get up to 30 GB of EBS General Purpose (SSD) or Magnetic storage

Add new volume

The selected AMI contains more instance store volumes than the instance allows. Only the first 0 instance store volumes from the AMI will be accessible from the instance

Click refresh to view backup information

The tags that you assign determine whether the instance will be backed up by any Data Lifecycle Manager policies.

0 x File systems

Edit

1

Software Image (AMI)  
Canonical, Ubuntu, 24.04, amd6...[read more](#)  
ami-0e2c8caa4b6378d8c

Virtual server type (instance type)  
t2.micro

Firewall (security group)  
launch-wizard-3

Storage (volumes)  
1 volume(s) - 8 GiB

Free tier: In your first year includes 750 hours of t2.micro (or t3.micro in the Regions in which

## Network Settings

aws

Search

[Alt+S]

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EC2 > Instances > Launch an instance

1

▼ Network settings Info

VPC - required Info

vpc-0fad64e64b03d7441 (default)

Subnet Info

subnet-0c17a39f85eb6f160  
VPC: vpc-0fad64e64b03d7441 Owner: 277707111634 Availability Zone: us-east-1a  
Zone type: Availability Zone IP addresses available: 4090 CIDR: 172.31.32.0/20

Auto-assign public IP Info

Enable

Additional charges apply when outside of free tier allowance

Firewall (security groups) Info

A security group is a set of firewall rules that control the traffic for your instance. Add rules to allow specific traffic to reach your instance.

Create security group Select existing security group

Security group name - required

launch-wizard-3

This security group will be added to all network interfaces. The name can't be edited after the security group is created. Max length is 255 characters. Valid characters: a-z, A-Z, 0-9, spaces, and ., -, /, !, @, [ ] + = & ; ' | \$ \*

Description - required Info

launch-wizard-3 created 2024-12-20T11:52:54.752Z

▼ Summary

Number of instances Info

1

Software Image (AMI)  
Amazon Linux 2023 AMI 2023.6.2...[read more](#)  
ami-01816d07b1128cd2d

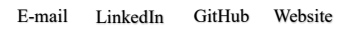
Virtual server type (instance type)  
t2.micro

Firewall (security group)  
New security group

Storage (volumes)  
1 volume(s) - 8 GiB

Free tier: In your first year includes 750 hours of t2.micro (or t3.micro in the Regions in which

Cancel Launch instance Preview code



aws

Search

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Dashboard

EC2 Global View

Events

Instances

Instances Types

Launch Templates

Spot Requests

Savings Plans

Reserved Instances

Dedicated Hosts

Capacity Reservations

Images

AMIs

AMI Catalog

Elastic Block Store

Volumes

Snapshots

Lifecycle Manager

Instances (1/4) info

Last updated 1 minute ago

Connect

Instance state

Actions

Launch instances

Q Find Instance by attribute or tag (case-sensitive)

All states

Name

Instance ID

Instance state

Instance type

Status check

Alarm status

Availability Zone

MY AWS Sql

i-077e868c116c39b25

Running

t2.micro

2/2 checks pass

View alarms

us-east-1c

nodejs rest api

i-0cecea614871d39c

Stopped

t2.micro

View alarms

us-east-1d

AWS-DEPLOY

i-05276f6c279e8f3f49

Stopped

t2.micro

View alarms

us-east-1a

AWSLinuxAssign

i-0a758e66de659a293

Stopped

t2.micro

View alarms

us-east-1a

i-077e868c116c39b25 (MY AWS Sql)

Details

Status and alarms

Monitoring

Security

Networking

Storage

Tags

Instance summary info

Instance ID

i-077e868c116c39b25

Public IPv4 address

3.87.0.156 | open address

Private IPv4 addresses

172.31.82.63



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## Connect via SSH

Connect to instance [Info](#)

Connect to your instance i-077e868c116c39b25 (MY AWS Sgl) using any of these options

[EC2 Instance Connect](#) [Session Manager](#) [SSH client](#) [EC2 serial console](#)

Instance ID  
i-077e868c116c39b25 (MY AWS Sgl)

1. Open an SSH client.
2. Locate your private key file. The key used to launch this instance is AWSLinuxAssign.pem
3. Run this command, if necessary, to ensure your key is not publicly viewable.  
chmod 400 "AWSLinuxAssign.pem"
4. Connect to your instance using its Public DNS:  
ec2-3-87-0-156.compute-1.amazonaws.com

Example:  
ssh -i "AWSLinuxAssign.pem" ubuntu@ec2-3-87-0-156.compute-1.amazonaws.com

**Note:** In most cases, the guessed username is correct. However, read your AMI usage instructions to check if the AMI owner has changed the default AMI username.

[Cancel](#)

## MySQL using the binary installation

**Below are the detailed steps I followed for installing the MySQL using the binary installation method on a Linux environment.**

Thisara K@DESKTOP-OQVCSV4 MINGW64 ~/Downloads/LinuxTest

```
$ ssh -i "AWSLinuxAssign.pem" ubuntu@ec2-50-19-187-122.compute-1.amazonaws.com
```

The authenticity of host 'ec2-50-19-187-122.compute-1.amazonaws.com (50.19.187.122)' can't be established.



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ED25519 key fingerprint is SHA256:c+UbrETSoGpuU2InGrSDL1jEFa/bqsnXN0U9KEfwkfg.

This key is not known by any other names.

Are you sure you want to continue connecting (yes/no/[fingerprint])? yes

Warning: Permanently added 'ec2-50-19-187-122.compute-1.amazonaws.com' (ED25519) to the list of known hosts.

Welcome to Ubuntu 24.04.1 LTS (GNU/Linux 6.8.0-1018-aws x86\_64)

\* Documentation: <https://help.ubuntu.com>

\* Management: <https://landscape.canonical.com>

\* Support: <https://ubuntu.com/pro>

System information as of Fri Dec 27 17:51:02 UTC 2024

System load: 0.02 Processes: 107

Usage of /: 24.7% of 6.71GB Users logged in: 0

Memory usage: 20% IPv4 address for enX0: 172.31.26.185

Swap usage: 0%

Expanded Security Maintenance for Applications is not enabled.

0 updates can be applied immediately.

Enable ESM Apps to receive additional future security updates.

See <https://ubuntu.com/esm> or run: `sudo pro status`

The list of available updates is more than a week old.

To check for new updates run: `sudo apt update`

The programs included with the Ubuntu system are free software;

the exact distribution terms for each program are described in the

individual files in `/usr/share/doc/*/copyright`.

Ubuntu comes with ABSOLUTELY NO WARRANTY, to the extent permitted by applicable law.



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To run a command as administrator (user "root"), use "sudo <command>".

See "man sudo\_root" for details.

```
ubuntu@ip-172-31-26-185:~$ sudo -i
root@ip-172-31-26-185:~#
root@ip-172-31-26-185:~#
root@ip-172-31-26-185:~#
root@ip-172-31-26-185:~#
root@ip-172-31-26-185:~#
root@ip-172-31-26-185:~#
root@ip-172-31-26-185:~#
root@ip-172-31-26-185:~# wget https://dev.mysql.com/get/Downloads/MySQL-8.0/mysql-8.0.xx-linux-glibc2.12-x86_64.tar.xz
--2024-12-27 17:51:37-- https://dev.mysql.com/get/Downloads/MySQL-8.0/mysql-8.0.xx-linux-glibc2.12-x86_64.tar.xz
Resolving dev.mysql.com (dev.mysql.com)... 23.218.131.64, 2600:1408:ec00:884::2e31, 2600:1408:ec00:885::2e31
Connecting to dev.mysql.com (dev.mysql.com)|23.218.131.64|:443... connected.
HTTP request sent, awaiting response... 404 Not Found
2024-12-27 17:51:37 ERROR 404: Not Found.
```

```
root@ip-172-31-26-185:~# ping google.com
PING google.com (172.253.115.101) 56(84) bytes of data.
64 bytes from bg-in-f101.1e100.net (172.253.115.101): icmp_seq=1 ttl=58 time=1.49 ms
64 bytes from bg-in-f101.1e100.net (172.253.115.101): icmp_seq=2 ttl=58 time=1.70 ms
64 bytes from bg-in-f101.1e100.net (172.253.115.101): icmp_seq=3 ttl=58 time=1.52 ms
^C
--- google.com ping statistics ---
```

```
3 packets transmitted, 3 received, 0% packet loss, time 2004ms
rtt min/avg/max/mdev = 1.485/1.566/1.698/0.093 ms
```

```
root@ip-172-31-26-185:~#
root@ip-172-31-26-185:~#
root@ip-172-31-26-185:~#
root@ip-172-31-26-185:~#
root@ip-172-31-26-185:~#
root@ip-172-31-26-185:~# wget https://dev.mysql.com/get/Downloads/MySQL-8.0/mysql-8.0.xx-linux-glibc2.12-x86_64.tar.xz
--2024-12-27 17:52:51-- https://dev.mysql.com/get/Downloads/MySQL-8.0/mysql-8.0.xx-linux-glibc2.12-x86_64.tar.xz
Resolving dev.mysql.com (dev.mysql.com)... 23.207.138.162, 2600:1408:ec00:885::2e31, 2600:1408:ec00:884::2e31
Connecting to dev.mysql.com (dev.mysql.com)|23.207.138.162|:443... connected.
HTTP request sent, awaiting response... 404 Not Found
```



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2024-12-27 17:52:51 ERROR 404: Not Found.

```
root@ip-172-31-26-185:~# wget https://dev.mysql.com/get/Downloads/MySQL-8.0/mysql-8.0.34-linux-glibc2.12-x86_64.tar.xz
```

```
--2024-12-27 17:53:55-- https://dev.mysql.com/get/Downloads/MySQL-8.0/mysql-8.0.34-linux-glibc2.12-x86_64.tar.xz
```

```
Resolving dev.mysql.com (dev.mysql.com)... 23.218.131.64, 2600:1408:ec00:885::2e31, 2600:1408:ec00:884::2e31
```

```
Connecting to dev.mysql.com (dev.mysql.com)|23.218.131.64|:443... connected.
```

```
HTTP request sent, awaiting response... 302 Moved Temporarily
```

```
Location: https://cdn.mysql.com/archives/mysql-8.0/mysql-8.0.34-linux-glibc2.12-x86_64.tar.xz [following]
```

```
--2024-12-27 17:53:55-- https://cdn.mysql.com/archives/mysql-8.0/mysql-8.0.34-linux-glibc2.12-x86_64.tar.xz
```

```
Resolving cdn.mysql.com (cdn.mysql.com)... 23.6.78.140, 2600:1408:ec00:888::1d68, 2600:1408:ec00:881::1d68
```

```
Connecting to cdn.mysql.com (cdn.mysql.com)|23.6.78.140|:443... connected.
```

```
HTTP request sent, awaiting response... 200 OK
```

```
Length: 617598500 (589M) [text/plain]
```

```
Saving to: 'mysql-8.0.34-linux-glibc2.12-x86_64.tar.xz'
```

```
mysql-8.0.34-linux-glibc2.12-x86_64.tar.xz
```

```
100%[=====>] 588.99M 90.0MB/s in 7.8s
```

2024-12-27 17:54:03 (75.1 MB/s) - 'mysql-8.0.34-linux-glibc2.12-x86\_64.tar.xz' saved [617598500/617598500]

```
root@ip-172-31-26-185:~# tar -xvf mysql-8.0.34-linux-glibc2.12-x86_64.tar.xz
```

```
mysql-8.0.34-linux-glibc2.12-x86_64/bin/
```

```
mysql-8.0.34-linux-glibc2.12-x86_64/bin/myisam_ftdump
```

```
mysql-8.0.34-linux-glibc2.12-x86_64/bin/myisamchk
```

```
mysql-8.0.34-linux-glibc2.12-x86_64/bin/myisamlog
```

```
mysql-8.0.34-linux-glibc2.12-x86_64/bin/myisampack
```

```
mysql-8.0.34-linux-glibc2.12-x86_64/bin/mysql
```

```
mysql-8.0.34-linux-glibc2.12-x86_64/bin/mysql_config_editor
```

```
mysql-8.0.34-linux-glibc2.12-x86_64/bin/mysql_migrate_keyring
```

```
mysql-8.0.34-linux-glibc2.12-x86_64/bin/mysql_secure_installation
```

```
mysql-8.0.34-linux-glibc2.12-x86_64/bin/mysql_ssl_rsa_setup
```

```
mysql-8.0.34-linux-glibc2.12-x86_64/bin/mysql_tzinfo_to_sql
```

```
mysql-8.0.34-linux-glibc2.12-x86_64/bin/mysql_upgrade
```

```
mysql-8.0.34-linux-glibc2.12-x86_64/bin/mysqladmin
```

```
mysql-8.0.34-linux-glibc2.12-x86_64/bin/mysqlbinlog
```

```
mysql-8.0.34-linux-glibc2.12-x86_64/bin/mysqlcheck
```





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```
mysql-8.0.34-linux-glibc2.12-x86_64/bin/mysqldump
mysql-8.0.34-linux-glibc2.12-x86_64/bin/mysqlimport
mysql-8.0.34-linux-glibc2.12-x86_64/bin/mysqlpump
mysql-8.0.34-linux-glibc2.12-x86_64/bin/mysqlshow
mysql-8.0.34-linux-glibc2.12-x86_64/bin/mysqlslap
mysql-8.0.34-linux-glibc2.12-x86_64/lib/
mysql-8.0.34-linux-glibc2.12-x86_64/lib/plugin/
mysql-8.0.34-linux-glibc2.12-x86_64/lib/plugin/authentication_fido_client.so
mysql-8.0.34-linux-glibc2.12-x86_64/lib/plugin/authentication_kerberos_client.so
mysql-8.0.34-linux-glibc2.12-x86_64/lib/plugin/authentication_ldap_sasl_client.so
mysql-8.0.34-linux-glibc2.12-x86_64/lib/plugin/authentication_oci_client.so
mysql-8.0.34-linux-glibc2.12-x86_64/bin/
mysql-8.0.34-linux-glibc2.12-x86_64/bin/mysqld-debug
mysql-8.0.34-linux-glibc2.12-x86_64/bin/
mysql-8.0.34-linux-glibc2.12-x86_64/bin/mysql_config
mysql-8.0.34-linux-glibc2.12-x86_64/include/
mysql-8.0.34-linux-glibc2.12-x86_64/include/errmsg.h
mysql-8.0.34-linux-glibc2.12-x86_64/include/field_types.h
mysql-8.0.34-linux-glibc2.12-x86_64/include/my_command.h
mysql-8.0.34-linux-glibc2.12-x86_64/include/my_compress.h
mysql-8.0.34-linux-glibc2.12-x86_64/include/my_list.h
mysql-8.0.34-linux-glibc2.12-x86_64/include/mysql/
mysql-8.0.34-linux-glibc2.12-x86_64/include/mysql.h
mysql-8.0.34-linux-glibc2.12-x86_64/include/mysql/client_plugin.h
mysql-8.0.34-linux-glibc2.12-x86_64/include/mysql/plugin_auth_common.h
mysql-8.0.34-linux-glibc2.12-x86_64/include/mysql/udf_registration_types.h
mysql-8.0.34-linux-glibc2.12-x86_64/include/mysql_com.h
mysql-8.0.34-linux-glibc2.12-x86_64/include/mysql_time.h
mysql-8.0.34-linux-glibc2.12-x86_64/include/mysql_version.h
mysql-8.0.34-linux-glibc2.12-x86_64/include/mysqld_error.h
mysql-8.0.34-linux-glibc2.12-x86_64/include/mysqlx_ename.h
mysql-8.0.34-linux-glibc2.12-x86_64/include/mysqlx_error.h
mysql-8.0.34-linux-glibc2.12-x86_64/include/mysqlx_version.h
mysql-8.0.34-linux-glibc2.12-x86_64/lib/
mysql-8.0.34-linux-glibc2.12-x86_64/lib/libmysqlclient.a
mysql-8.0.34-linux-glibc2.12-x86_64/lib/libmysqldservices.a
```



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```
mysql-8.0.34-linux-glibc2.12-x86_64/lib/pkgconfig/
mysql-8.0.34-linux-glibc2.12-x86_64/lib/pkgconfig/mysqlclient.pc
mysql-8.0.34-linux-glibc2.12-x86_64/share/
mysql-8.0.34-linux-glibc2.12-x86_64/share/aclocal/
mysql-8.0.34-linux-glibc2.12-x86_64/share/aclocal/mysql.m4
mysql-8.0.34-linux-glibc2.12-x86_64/docs/
mysql-8.0.34-linux-glibc2.12-x86_64/docs/INFO_SRC
mysql-8.0.34-linux-glibc2.12-x86_64/docs/
mysql-8.0.34-linux-glibc2.12-x86_64/docs/INFO_BIN
mysql-8.0.34-linux-glibc2.12-x86_64/docs/INFO_SRC
mysql-8.0.34-linux-glibc2.12-x86_64/man/
mysql-8.0.34-linux-glibc2.12-x86_64/man/man1/
mysql-8.0.34-linux-glibc2.12-x86_64/man/man1/comp_err.1
mysql-8.0.34-linux-glibc2.12-x86_64/man/man1/ibd2sdi.1
mysql-8.0.34-linux-glibc2.12-x86_64/man/man1/innochecksum.1
mysql-8.0.34-linux-glibc2.12-x86_64/man/man1/lz4_decompress.1
mysql-8.0.34-linux-glibc2.12-x86_64/man/man1/my_print_defaults.1
mysql-8.0.34-linux-glibc2.12-x86_64/man/man1/myisam_ftdump.1
mysql-8.0.34-linux-glibc2.12-x86_64/man/man1/myisamchk.1
mysql-8.0.34-linux-glibc2.12-x86_64/man/man1/myisamlog.1
mysql-8.0.34-linux-glibc2.12-x86_64/man/man1/myisampack.1
mysql-8.0.34-linux-glibc2.12-x86_64/man/man1/mysql.1
mysql-8.0.34-linux-glibc2.12-x86_64/man/man1/mysql.server.1
mysql-8.0.34-linux-glibc2.12-x86_64/man/man1/mysql_config.1
mysql-8.0.34-linux-glibc2.12-x86_64/man/man1/mysql_config_editor.1
mysql-8.0.34-linux-glibc2.12-x86_64/man/man1/mysql_secure_installation.1
mysql-8.0.34-linux-glibc2.12-x86_64/man/man1/mysql_ssl_rsa_setup.1
mysql-8.0.34-linux-glibc2.12-x86_64/man/man1/mysql_tzinfo_to_sql.1
mysql-8.0.34-linux-glibc2.12-x86_64/man/man1/mysql_upgrade.1
mysql-8.0.34-linux-glibc2.12-x86_64/man/man1/mysqladmin.1
mysql-8.0.34-linux-glibc2.12-x86_64/man/man1/mysqlbinlog.1
mysql-8.0.34-linux-glibc2.12-x86_64/man/man1/mysqlcheck.1
mysql-8.0.34-linux-glibc2.12-x86_64/man/man1/mysqld_multi.1
mysql-8.0.34-linux-glibc2.12-x86_64/man/man1/mysqld_safe.1
mysql-8.0.34-linux-glibc2.12-x86_64/man/man1/mysqldump.1
mysql-8.0.34-linux-glibc2.12-x86_64/man/man1/mysqldumpslow.1
```



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```
mysql-8.0.34-linux-glibc2.12-x86_64/man/man1/mysqlimport.1
mysql-8.0.34-linux-glibc2.12-x86_64/man/man1/mysqlman.1
mysql-8.0.34-linux-glibc2.12-x86_64/man/man1/mysqlpump.1
mysql-8.0.34-linux-glibc2.12-x86_64/man/man1/mysqlrouter.1
mysql-8.0.34-linux-glibc2.12-x86_64/man/man1/mysqlrouter_passwd.1
mysql-8.0.34-linux-glibc2.12-x86_64/man/man1/mysqlrouter_plugin_info.1
mysql-8.0.34-linux-glibc2.12-x86_64/man/man1/mysqlshow.1
mysql-8.0.34-linux-glibc2.12-x86_64/man/man1/mysqlslap.1
mysql-8.0.34-linux-glibc2.12-x86_64/man/man1/perror.1
mysql-8.0.34-linux-glibc2.12-x86_64/man/man1/zlib_decompress.1
mysql-8.0.34-linux-glibc2.12-x86_64/man/man8/
mysql-8.0.34-linux-glibc2.12-x86_64/man/man8/mysqld.8
mysql-8.0.34-linux-glibc2.12-x86_64/LICENSE
mysql-8.0.34-linux-glibc2.12-x86_64/README
mysql-8.0.34-linux-glibc2.12-x86_64/bin/
mysql-8.0.34-linux-glibc2.12-x86_64/bin/ibd2sdi
mysql-8.0.34-linux-glibc2.12-x86_64/bin/innochecksum
mysql-8.0.34-linux-glibc2.12-x86_64/bin/lz4_decompress
mysql-8.0.34-linux-glibc2.12-x86_64/bin/my_print_defaults
mysql-8.0.34-linux-glibc2.12-x86_64/bin/mysqld
mysql-8.0.34-linux-glibc2.12-x86_64/bin/mysqld_multi
mysql-8.0.34-linux-glibc2.12-x86_64/bin/mysqld_safe
mysql-8.0.34-linux-glibc2.12-x86_64/bin/mysqldumpslow
mysql-8.0.34-linux-glibc2.12-x86_64/bin/perror
mysql-8.0.34-linux-glibc2.12-x86_64/bin/zlib_decompress
mysql-8.0.34-linux-glibc2.12-x86_64/lib/
mysql-8.0.34-linux-glibc2.12-x86_64/lib/mecab/
mysql-8.0.34-linux-glibc2.12-x86_64/lib/mecab/dic/
mysql-8.0.34-linux-glibc2.12-x86_64/lib/mecab/dic/ipadic_euc-jp/
mysql-8.0.34-linux-glibc2.12-x86_64/lib/mecab/dic/ipadic_euc-jp/char.bin
mysql-8.0.34-linux-glibc2.12-x86_64/lib/mecab/dic/ipadic_euc-jp/dicrc
mysql-8.0.34-linux-glibc2.12-x86_64/lib/mecab/dic/ipadic_euc-jp/left-id.def
mysql-8.0.34-linux-glibc2.12-x86_64/lib/mecab/dic/ipadic_euc-jp/matrix.bin
mysql-8.0.34-linux-glibc2.12-x86_64/lib/mecab/dic/ipadic_euc-jp/pos-id.def
mysql-8.0.34-linux-glibc2.12-x86_64/lib/mecab/dic/ipadic_euc-jp/rewrite.def
mysql-8.0.34-linux-glibc2.12-x86_64/lib/mecab/dic/ipadic_euc-jp/right-id.def
```



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mysql-8.0.34-linux-glibc2.12-x86\_64/lib/mecab/dic/ipadic\_euc-jp/sys.dic  
mysql-8.0.34-linux-glibc2.12-x86\_64/lib/mecab/dic/ipadic\_euc-jp/unk.dic  
mysql-8.0.34-linux-glibc2.12-x86\_64/lib/mecab/dic/ipadic\_sjis/  
mysql-8.0.34-linux-glibc2.12-x86\_64/lib/mecab/dic/ipadic\_sjis/char.bin  
mysql-8.0.34-linux-glibc2.12-x86\_64/lib/mecab/dic/ipadic\_sjis/dicrc  
mysql-8.0.34-linux-glibc2.12-x86\_64/lib/mecab/dic/ipadic\_sjis/left-id.def  
mysql-8.0.34-linux-glibc2.12-x86\_64/lib/mecab/dic/ipadic\_sjis/matrix.bin  
mysql-8.0.34-linux-glibc2.12-x86\_64/lib/mecab/dic/ipadic\_sjis/pos-id.def  
mysql-8.0.34-linux-glibc2.12-x86\_64/lib/mecab/dic/ipadic\_sjis/rewrite.def  
mysql-8.0.34-linux-glibc2.12-x86\_64/lib/mecab/dic/ipadic\_sjis/right-id.def  
mysql-8.0.34-linux-glibc2.12-x86\_64/lib/mecab/dic/ipadic\_sjis/sys.dic  
mysql-8.0.34-linux-glibc2.12-x86\_64/lib/mecab/dic/ipadic\_sjis/unk.dic  
mysql-8.0.34-linux-glibc2.12-x86\_64/lib/mecab/dic/ipadic\_utf-8/  
mysql-8.0.34-linux-glibc2.12-x86\_64/lib/mecab/dic/ipadic\_utf-8/char.bin  
mysql-8.0.34-linux-glibc2.12-x86\_64/lib/mecab/dic/ipadic\_utf-8/dicrc  
mysql-8.0.34-linux-glibc2.12-x86\_64/lib/mecab/dic/ipadic\_utf-8/left-id.def  
mysql-8.0.34-linux-glibc2.12-x86\_64/lib/mecab/dic/ipadic\_utf-8/matrix.bin  
mysql-8.0.34-linux-glibc2.12-x86\_64/lib/mecab/dic/ipadic\_utf-8/pos-id.def  
mysql-8.0.34-linux-glibc2.12-x86\_64/lib/mecab/dic/ipadic\_utf-8/rewrite.def  
mysql-8.0.34-linux-glibc2.12-x86\_64/lib/mecab/dic/ipadic\_utf-8/right-id.def  
mysql-8.0.34-linux-glibc2.12-x86\_64/lib/mecab/dic/ipadic\_utf-8/sys.dic  
mysql-8.0.34-linux-glibc2.12-x86\_64/lib/mecab/dic/ipadic\_utf-8/unk.dic  
mysql-8.0.34-linux-glibc2.12-x86\_64/lib/mecab/etc/  
mysql-8.0.34-linux-glibc2.12-x86\_64/lib/mecab/etc/mecabrc  
mysql-8.0.34-linux-glibc2.12-x86\_64/lib/plugin/  
mysql-8.0.34-linux-glibc2.12-x86\_64/lib/plugin/adt\_null.so  
mysql-8.0.34-linux-glibc2.12-x86\_64/lib/plugin/auth\_socket.so  
mysql-8.0.34-linux-glibc2.12-x86\_64/lib/plugin/component\_audit\_api\_message\_emit.so  
mysql-8.0.34-linux-glibc2.12-x86\_64/lib/plugin/component\_keyring\_file.so  
mysql-8.0.34-linux-glibc2.12-x86\_64/lib/plugin/component\_log\_filter\_dragnet.so  
mysql-8.0.34-linux-glibc2.12-x86\_64/lib/plugin/component\_log\_sink\_json.so  
mysql-8.0.34-linux-glibc2.12-x86\_64/lib/plugin/component\_log\_sink\_syseventlog.so  
mysql-8.0.34-linux-glibc2.12-x86\_64/lib/plugin/component\_mysqlbackup.so  
mysql-8.0.34-linux-glibc2.12-x86\_64/lib/plugin/component\_query\_attributes.so  
mysql-8.0.34-linux-glibc2.12-x86\_64/lib/plugin/component\_reference\_cache.so  
mysql-8.0.34-linux-glibc2.12-x86\_64/lib/plugin/component\_validate\_password.so



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mysql-8.0.34-linux-glibc2.12-x86\_64/lib/plugin/connection\_control.so

mysql-8.0.34-linux-glibc2.12-x86\_64/lib/plugin/ddl\_rewriter.so

mysql-8.0.34-linux-glibc2.12-x86\_64/lib/plugin/debug/

mysql-8.0.34-linux-glibc2.12-x86\_64/lib/plugin/debug/adt\_null.so

mysql-8.0.34-linux-glibc2.12-x86\_64/lib/plugin/debug/auth\_socket.so

mysql-8.0.34-linux-glibc2.12-x86\_64/lib/plugin/debug/component\_audit\_api\_message\_emit.so

mysql-8.0.34-linux-glibc2.12-x86\_64/lib/plugin/debug/component\_keyring\_file.so

mysql-8.0.34-linux-glibc2.12-x86\_64/lib/plugin/debug/component\_log\_filter\_dragnet.so

mysql-8.0.34-linux-glibc2.12-x86\_64/lib/plugin/debug/component\_log\_sink\_json.so

mysql-8.0.34-linux-glibc2.12-x86\_64/lib/plugin/debug/component\_log\_sink\_syseventlog.so

mysql-8.0.34-linux-glibc2.12-x86\_64/lib/plugin/debug/component\_mysqlbackup.so

mysql-8.0.34-linux-glibc2.12-x86\_64/lib/plugin/debug/component\_query\_attributes.so

mysql-8.0.34-linux-glibc2.12-x86\_64/lib/plugin/debug/component\_reference\_cache.so

mysql-8.0.34-linux-glibc2.12-x86\_64/lib/plugin/debug/component\_validate\_password.so

mysql-8.0.34-linux-glibc2.12-x86\_64/lib/plugin/debug/connection\_control.so

mysql-8.0.34-linux-glibc2.12-x86\_64/lib/plugin/debug/ddl\_rewriter.so

mysql-8.0.34-linux-glibc2.12-x86\_64/lib/plugin/debug/group\_replication.so

mysql-8.0.34-linux-glibc2.12-x86\_64/lib/plugin/debug/ha\_example.so

mysql-8.0.34-linux-glibc2.12-x86\_64/lib/plugin/debug/ha\_mock.so

mysql-8.0.34-linux-glibc2.12-x86\_64/lib/plugin/debug/innodb\_engine.so

mysql-8.0.34-linux-glibc2.12-x86\_64/lib/plugin/debug/keyring\_file.so

mysql-8.0.34-linux-glibc2.12-x86\_64/lib/plugin/debug/keyring\_udf.so

mysql-8.0.34-linux-glibc2.12-x86\_64/lib/plugin/debug/libmemcached.so

mysql-8.0.34-linux-glibc2.12-x86\_64/lib/plugin/debug/libpluginmecab.so

mysql-8.0.34-linux-glibc2.12-x86\_64/lib/plugin/debug/locking\_service.so

mysql-8.0.34-linux-glibc2.12-x86\_64/lib/plugin/debug/mypluglib.so

mysql-8.0.34-linux-glibc2.12-x86\_64/lib/plugin/debug/mysql\_clone.so

mysql-8.0.34-linux-glibc2.12-x86\_64/lib/plugin/debug/mysql\_no\_login.so

mysql-8.0.34-linux-glibc2.12-x86\_64/lib/plugin/debug/rewrite\_example.so

mysql-8.0.34-linux-glibc2.12-x86\_64/lib/plugin/debug/rewriter.so

mysql-8.0.34-linux-glibc2.12-x86\_64/lib/plugin/debug/semisync\_master.so

mysql-8.0.34-linux-glibc2.12-x86\_64/lib/plugin/debug/semisync\_replica.so

mysql-8.0.34-linux-glibc2.12-x86\_64/lib/plugin/debug/semisync\_slave.so

mysql-8.0.34-linux-glibc2.12-x86\_64/lib/plugin/debug/semisync\_source.so

mysql-8.0.34-linux-glibc2.12-x86\_64/lib/plugin/debug/validate\_password.so

mysql-8.0.34-linux-glibc2.12-x86\_64/lib/plugin/debug/version\_token.so



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mysql-8.0.34-linux-glibc2.12-x86\_64/lib/plugin/group\_replication.so  
mysql-8.0.34-linux-glibc2.12-x86\_64/lib/plugin/ha\_example.so  
mysql-8.0.34-linux-glibc2.12-x86\_64/lib/plugin/ha\_mock.so  
mysql-8.0.34-linux-glibc2.12-x86\_64/lib/plugin/innodb\_engine.so  
mysql-8.0.34-linux-glibc2.12-x86\_64/lib/plugin/keyring\_file.so  
mysql-8.0.34-linux-glibc2.12-x86\_64/lib/plugin/keyring\_udf.so  
mysql-8.0.34-linux-glibc2.12-x86\_64/lib/plugin/libmemcached.so  
mysql-8.0.34-linux-glibc2.12-x86\_64/lib/plugin/libpluginmecab.so  
mysql-8.0.34-linux-glibc2.12-x86\_64/lib/plugin/locking\_service.so  
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mysql-8.0.34-linux-glibc2.12-x86\_64/lib/plugin/mysql\_clone.so  
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mysql-8.0.34-linux-glibc2.12-x86\_64/lib/plugin/semisync\_slave.so  
mysql-8.0.34-linux-glibc2.12-x86\_64/lib/plugin/semisync\_source.so  
mysql-8.0.34-linux-glibc2.12-x86\_64/lib/plugin/validate\_password.so  
mysql-8.0.34-linux-glibc2.12-x86\_64/lib/plugin/version\_token.so  
mysql-8.0.34-linux-glibc2.12-x86\_64/share/  
mysql-8.0.34-linux-glibc2.12-x86\_64/share/bulgarian/  
mysql-8.0.34-linux-glibc2.12-x86\_64/share/bulgarian/errmsg.sys  
mysql-8.0.34-linux-glibc2.12-x86\_64/share/charsets/  
mysql-8.0.34-linux-glibc2.12-x86\_64/share/charsets/Index.xml  
mysql-8.0.34-linux-glibc2.12-x86\_64/share/charsets/README  
mysql-8.0.34-linux-glibc2.12-x86\_64/share/charsets/armSCII8.xml  
mysql-8.0.34-linux-glibc2.12-x86\_64/share/charsets/ascii.xml  
mysql-8.0.34-linux-glibc2.12-x86\_64/share/charsets/cp1250.xml  
mysql-8.0.34-linux-glibc2.12-x86\_64/share/charsets/cp1251.xml  
mysql-8.0.34-linux-glibc2.12-x86\_64/share/charsets/cp1256.xml  
mysql-8.0.34-linux-glibc2.12-x86\_64/share/charsets/cp1257.xml  
mysql-8.0.34-linux-glibc2.12-x86\_64/share/charsets/cp850.xml  
mysql-8.0.34-linux-glibc2.12-x86\_64/share/charsets/cp852.xml  
mysql-8.0.34-linux-glibc2.12-x86\_64/share/charsets/cp866.xml  
mysql-8.0.34-linux-glibc2.12-x86\_64/share/charsets/dec8.xml



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mysql-8.0.34-linux-glibc2.12-x86\_64/share/charsets/geostd8.xml  
mysql-8.0.34-linux-glibc2.12-x86\_64/share/charsets/greek.xml  
mysql-8.0.34-linux-glibc2.12-x86\_64/share/charsets/hebrew.xml  
mysql-8.0.34-linux-glibc2.12-x86\_64/share/charsets/hp8.xml  
mysql-8.0.34-linux-glibc2.12-x86\_64/share/charsets/keybcs2.xml  
mysql-8.0.34-linux-glibc2.12-x86\_64/share/charsets/koi8r.xml  
mysql-8.0.34-linux-glibc2.12-x86\_64/share/charsets/koi8u.xml  
mysql-8.0.34-linux-glibc2.12-x86\_64/share/charsets/latin1.xml  
mysql-8.0.34-linux-glibc2.12-x86\_64/share/charsets/latin2.xml  
mysql-8.0.34-linux-glibc2.12-x86\_64/share/charsets/latin5.xml  
mysql-8.0.34-linux-glibc2.12-x86\_64/share/charsets/latin7.xml  
mysql-8.0.34-linux-glibc2.12-x86\_64/share/charsets/macce.xml  
mysql-8.0.34-linux-glibc2.12-x86\_64/share/charsets/macroman.xml  
mysql-8.0.34-linux-glibc2.12-x86\_64/share/charsets/swe7.xml  
mysql-8.0.34-linux-glibc2.12-x86\_64/share/czech/  
mysql-8.0.34-linux-glibc2.12-x86\_64/share/czech/errmsg.sys  
mysql-8.0.34-linux-glibc2.12-x86\_64/share/danish/  
mysql-8.0.34-linux-glibc2.12-x86\_64/share/danish/errmsg.sys  
mysql-8.0.34-linux-glibc2.12-x86\_64/share/dictionary.txt  
mysql-8.0.34-linux-glibc2.12-x86\_64/share/dutch/  
mysql-8.0.34-linux-glibc2.12-x86\_64/share/dutch/errmsg.sys  
mysql-8.0.34-linux-glibc2.12-x86\_64/share/english/  
mysql-8.0.34-linux-glibc2.12-x86\_64/share/english/errmsg.sys  
mysql-8.0.34-linux-glibc2.12-x86\_64/share/estonian/  
mysql-8.0.34-linux-glibc2.12-x86\_64/share/estonian/errmsg.sys  
mysql-8.0.34-linux-glibc2.12-x86\_64/share/french/  
mysql-8.0.34-linux-glibc2.12-x86\_64/share/french/errmsg.sys  
mysql-8.0.34-linux-glibc2.12-x86\_64/share/german/  
mysql-8.0.34-linux-glibc2.12-x86\_64/share/german/errmsg.sys  
mysql-8.0.34-linux-glibc2.12-x86\_64/share/greek/  
mysql-8.0.34-linux-glibc2.12-x86\_64/share/greek/errmsg.sys  
mysql-8.0.34-linux-glibc2.12-x86\_64/share/hungarian/  
mysql-8.0.34-linux-glibc2.12-x86\_64/share/hungarian/errmsg.sys  
mysql-8.0.34-linux-glibc2.12-x86\_64/share/innodb\_memcached\_config.sql  
mysql-8.0.34-linux-glibc2.12-x86\_64/share/italian/  
mysql-8.0.34-linux-glibc2.12-x86\_64/share/italian/errmsg.sys



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mysql-8.0.34-linux-glibc2.12-x86\_64/share/japanese/  
mysql-8.0.34-linux-glibc2.12-x86\_64/share/japanese/errmsg.sys  
mysql-8.0.34-linux-glibc2.12-x86\_64/share/korean/  
mysql-8.0.34-linux-glibc2.12-x86\_64/share/korean/errmsg.sys  
mysql-8.0.34-linux-glibc2.12-x86\_64/share/messages\_to\_clients.txt  
mysql-8.0.34-linux-glibc2.12-x86\_64/share/messages\_to\_error\_log.txt  
mysql-8.0.34-linux-glibc2.12-x86\_64/share/norwegian/  
mysql-8.0.34-linux-glibc2.12-x86\_64/share/norwegian-ny/  
mysql-8.0.34-linux-glibc2.12-x86\_64/share/norwegian-ny/errmsg.sys  
mysql-8.0.34-linux-glibc2.12-x86\_64/share/norwegian/errmsg.sys  
mysql-8.0.34-linux-glibc2.12-x86\_64/share/polish/  
mysql-8.0.34-linux-glibc2.12-x86\_64/share/polish/errmsg.sys  
mysql-8.0.34-linux-glibc2.12-x86\_64/share/portuguese/  
mysql-8.0.34-linux-glibc2.12-x86\_64/share/portuguese/errmsg.sys  
mysql-8.0.34-linux-glibc2.12-x86\_64/share/romanian/  
mysql-8.0.34-linux-glibc2.12-x86\_64/share/romanian/errmsg.sys  
mysql-8.0.34-linux-glibc2.12-x86\_64/share/russian/  
mysql-8.0.34-linux-glibc2.12-x86\_64/share/russian/errmsg.sys  
mysql-8.0.34-linux-glibc2.12-x86\_64/share/serbian/  
mysql-8.0.34-linux-glibc2.12-x86\_64/share/serbian/errmsg.sys  
mysql-8.0.34-linux-glibc2.12-x86\_64/share/slovak/  
mysql-8.0.34-linux-glibc2.12-x86\_64/share/slovak/errmsg.sys  
mysql-8.0.34-linux-glibc2.12-x86\_64/share/spanish/  
mysql-8.0.34-linux-glibc2.12-x86\_64/share/spanish/errmsg.sys  
mysql-8.0.34-linux-glibc2.12-x86\_64/share/swedish/  
mysql-8.0.34-linux-glibc2.12-x86\_64/share/swedish/errmsg.sys  
mysql-8.0.34-linux-glibc2.12-x86\_64/share/ukrainian/  
mysql-8.0.34-linux-glibc2.12-x86\_64/share/ukrainian/errmsg.sys  
mysql-8.0.34-linux-glibc2.12-x86\_64/support-files/  
mysql-8.0.34-linux-glibc2.12-x86\_64/support-files/mysql-log-rotate  
mysql-8.0.34-linux-glibc2.12-x86\_64/support-files/mysql.server  
mysql-8.0.34-linux-glibc2.12-x86\_64/support-files/mysqld\_multi.server  
mysql-8.0.34-linux-glibc2.12-x86\_64/lib/  
mysql-8.0.34-linux-glibc2.12-x86\_64/lib/libmysqlclient.so  
mysql-8.0.34-linux-glibc2.12-x86\_64/lib/libmysqlclient.so.21  
mysql-8.0.34-linux-glibc2.12-x86\_64/lib/libmysqlclient.so.21.2.34





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mysql-8.0.34-linux-glibc2.12-x86\_64/lib/private/  
mysql-8.0.34-linux-glibc2.12-x86\_64/lib/private/icudt73l/  
mysql-8.0.34-linux-glibc2.12-x86\_64/lib/private/icudt73l/brkitr/  
mysql-8.0.34-linux-glibc2.12-x86\_64/lib/private/icudt73l/brkitr/burmesedict.dict  
mysql-8.0.34-linux-glibc2.12-x86\_64/lib/private/icudt73l/brkitr/char.brk  
mysql-8.0.34-linux-glibc2.12-x86\_64/lib/private/icudt73l/brkitr/cjdict.dict  
mysql-8.0.34-linux-glibc2.12-x86\_64/lib/private/icudt73l/brkitr/de.res  
mysql-8.0.34-linux-glibc2.12-x86\_64/lib/private/icudt73l/brkitr/el.res  
mysql-8.0.34-linux-glibc2.12-x86\_64/lib/private/icudt73l/brkitr/en.res  
mysql-8.0.34-linux-glibc2.12-x86\_64/lib/private/icudt73l/brkitr/en\_US.res  
mysql-8.0.34-linux-glibc2.12-x86\_64/lib/private/icudt73l/brkitr/en\_US\_POSIX.res  
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mysql-8.0.34-linux-glibc2.12-x86\_64/lib/private/icudt73l/brkitr/title.brk  
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mysql-8.0.34-linux-glibc2.12-x86\_64/lib/private/icudt73l/brkitr/word\_fi\_sv.brk  
mysql-8.0.34-linux-glibc2.12-x86\_64/lib/private/icudt73l/brkitr/zh.res  
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mysql-8.0.34-linux-glibc2.12-x86\_64/lib/private/icudt73l/uemoji.icu  
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mysql-8.0.34-linux-glibc2.12-x86\_64/lib/private/icudt73l/unames.icu  
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mysql-8.0.34-linux-glibc2.12-x86\_64/lib/private/libprotobuf-lite.so.3.19.4



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mysql-8.0.34-linux-glibc2.12-x86_64/lib/private/libprotobuf.so.3.19.4
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mysql-8.0.34-linux-glibc2.12-x86_64/lib/private/sasl2/libanonymous.so
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mysql-8.0.34-linux-glibc2.12-x86_64/lib/private/sasl2/libcrammd5.so
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mysql-8.0.34-linux-glibc2.12-x86_64/lib/private/sasl2/libdigestmd5.so
mysql-8.0.34-linux-glibc2.12-x86_64/lib/private/sasl2/libdigestmd5.so.3
mysql-8.0.34-linux-glibc2.12-x86_64/lib/private/sasl2/libdigestmd5.so.3.0.0
mysql-8.0.34-linux-glibc2.12-x86_64/lib/private/sasl2/libgss2.so
mysql-8.0.34-linux-glibc2.12-x86_64/lib/private/sasl2/libgss2.so.3
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mysql-8.0.34-linux-glibc2.12-x86_64/lib/private/sasl2/libscram.so.3.0.0
mysql-8.0.34-linux-glibc2.12-x86_64/share/
mysql-8.0.34-linux-glibc2.12-x86_64/share/install_rewriter.sql
mysql-8.0.34-linux-glibc2.12-x86_64/share/uninstall_rewriter.sql
root@ip-172-31-26-185:~# sudo mv mysql-8.0.34-linux-glibc2.12-x86_64 /usr/local/mysql
root@ip-172-31-26-185:~# sudo groupadd mysql
root@ip-172-31-26-185:~# sudo useradd -r -g mysql -s /bin/false mysql
root@ip-172-31-26-185:~# sudo chown -R mysql:mysql /usr/local/mysql
root@ip-172-31-26-185:~# apt update
```



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Get:50 <http://security.ubuntu.com/ubuntu noble-security/multiverse amd64 c-n-f Metadata> [356 B]

Fetches 31.8 MB in 6s (5245 kB/s)

Reading package lists... Done

Building dependency tree... Done

Reading state information... Done

58 packages can be upgraded. Run 'apt list --upgradable' to see them.

```
root@ip-172-31-26-185:~# apt install -y libaio1 libncurses5 libtinfo5
```

Reading package lists... Done

Building dependency tree... Done

Reading state information... Done

Package libaio1 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 'libaio1' has no installation candidate

E: Unable to locate package libncurses5

E: Unable to locate package libtinfo5

```
root@ip-172-31-26-185:~# sudo apt install -y libaio-dev libncurses5-dev
```

Reading package lists... Done

Building dependency tree... Done

Reading state information... Done

Note, selecting 'libncurses-dev' instead of 'libncurses5-dev'

The following additional packages will be installed:



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fontconfig-config fonts-dejavu-core fonts-dejavu-mono libaom3 libc-dev-bin libc-devtools libc6-dev libcrypt-dev libde265-0 libdeflate0 libfontconfig1 libgd3 libheif-plugin-aomdec libheif-plugin-aomenc

libheif-plugin-libde265 libheif1 libjbig0 libjpeg-turbo8 libjpeg8 liblerc4 libsharpvuv0 libtiff6 libwebp7 libxpm4 linux-libc-dev linux-tools-common manpages-dev rpcsvc-proto

Suggested packages:

glibc-doc libgd-tools libheif-plugin-x265 libheif-plugin-ffmpegdec libheif-plugin-jpegdec libheif-plugin-jpegenc libheif-plugin-j2kdec libheif-plugin-j2kenc libheif-plugin-rav1e libheif-plugin-svtenc

ncurses-doc

The following NEW packages will be installed:

fontconfig-config fonts-dejavu-core fonts-dejavu-mono libaio-dev libaom3 libc-dev-bin libc-devtools libc6-dev libcrypt-dev libde265-0 libdeflate0 libfontconfig1 libgd3 libheif-plugin-aomdec

libheif-plugin-aomenc libheif-plugin-libde265 libheif1 libjbig0 libjpeg-turbo8 libjpeg8 liblerc4 libncurses-dev libsharpvuv0 libtiff6 libwebp7 libxpm4 linux-libc-dev manpages-dev rpcsvc-proto

The following packages will be upgraded:

linux-tools-common

1 upgraded, 29 newly installed, 0 to remove and 57 not upgraded.

Need to get 12.2 MB of archives.

After this operation, 42.3 MB of additional disk space will be used.

Get:1 <http://us-east-1.ec2.archive.ubuntu.com/ubuntu/noble/main amd64 fonts-dejavu-mono all 2.37-8> [502 kB]

Get:2 <http://us-east-1.ec2.archive.ubuntu.com/ubuntu/noble/main amd64 fonts-dejavu-core all 2.37-8> [835 kB]

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Get:4 <http://us-east-1.ec2.archive.ubuntu.com/ubuntu/noble/main amd64 libaio-dev amd64 0.3.113-6build1> [21.4 kB]

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Get:8 <http://us-east-1.ec2.archive.ubuntu.com/ubuntu/noble/main amd64 libsharpvuv0 amd64 1.3.2-0.4build3> [15.8 kB]

Get:9 <http://us-east-1.ec2.archive.ubuntu.com/ubuntu/noble-updates/main amd64 libheif-plugin-aomdec amd64 1.17.6-1ubuntu4.1> [10.4 kB]

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Get:13 <http://us-east-1.ec2.archive.ubuntu.com/ubuntu/noble/main amd64 libjpeg-turbo8 amd64 2.1.5-2ubuntu2> [150 kB]

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Get:21 http://us-east-1.ec2.archive.ubuntu.com/ubuntu noble/main amd64 libgd3 amd64 2.3.3-9ubuntu5 [128 kB]
Get:22 http://us-east-1.ec2.archive.ubuntu.com/ubuntu noble-updates/main amd64 libc-devtools amd64 2.39-0ubuntu8.3 [69.7 kB]
Get:23 http://us-east-1.ec2.archive.ubuntu.com/ubuntu noble-updates/main amd64 linux-libc-dev amd64 6.8.0-51.52 [1769 kB]
Get:24 http://us-east-1.ec2.archive.ubuntu.com/ubuntu noble/main amd64 libcrypt-dev amd64 1:4.4.36-4build1 [112 kB]
Get:25 http://us-east-1.ec2.archive.ubuntu.com/ubuntu noble/main amd64 rpsvc-proto amd64 1.4.2-0ubuntu7 [67.4 kB]
Get:26 http://us-east-1.ec2.archive.ubuntu.com/ubuntu noble-updates/main amd64 libc6-dev amd64 2.39-0ubuntu8.3 [2164 kB]
Get:27 http://us-east-1.ec2.archive.ubuntu.com/ubuntu noble-updates/main amd64 libheif-plugin-aomenc amd64 1.17.6-1ubuntu4.1 [14.7 kB]
Get:28 http://us-east-1.ec2.archive.ubuntu.com/ubuntu noble/main amd64 libncurses-dev amd64 6.4+20240113-1ubuntu2 [384 kB]
Get:29 http://us-east-1.ec2.archive.ubuntu.com/ubuntu noble-updates/main amd64 linux-tools-common all 6.8.0-51.52 [610 kB]
Get:30 http://us-east-1.ec2.archive.ubuntu.com/ubuntu noble/main amd64 manpages-dev all 6.7-2 [2013 kB]
Fetched 12.2 MB in 0s (58.1 MB/s)
Selecting previously unselected package fonts-dejavu-mono.
(Reading database ... 70601 files and directories currently installed.)
Preparing to unpack .../00-fonts-dejavu-mono_2.37-8_all.deb ...
Unpacking fonts-dejavu-mono (2.37-8) ...
Selecting previously unselected package fonts-dejavu-core.
Preparing to unpack .../01-fonts-dejavu-core_2.37-8_all.deb ...
Unpacking fonts-dejavu-core (2.37-8) ...
Selecting previously unselected package fontconfig-config.
Preparing to unpack .../02-fontconfig-config_2.15.0-1.1ubuntu2_amd64.deb ...
Unpacking fontconfig-config (2.15.0-1.1ubuntu2) ...
Selecting previously unselected package libaio-dev:amd64.
Preparing to unpack .../03-libaio-dev_0.3.113-6build1_amd64.deb ...
Unpacking libaio-dev:amd64 (0.3.113-6build1) ...
Selecting previously unselected package libaom3:amd64.
Preparing to unpack .../04-libaom3_3.8.2-2ubuntu0.1_amd64.deb ...
Unpacking libaom3:amd64 (3.8.2-2ubuntu0.1) ...
Selecting previously unselected package libc-dev-bin.
Preparing to unpack .../05-libc-dev-bin_2.39-0ubuntu8.3_amd64.deb ...
Unpacking libc-dev-bin (2.39-0ubuntu8.3) ...
Selecting previously unselected package libfontconfig1:amd64.
Preparing to unpack .../06-libfontconfig1_2.15.0-1.1ubuntu2_amd64.deb ...
Unpacking libfontconfig1:amd64 (2.15.0-1.1ubuntu2) ...
Selecting previously unselected package libsharpv0:amd64.
```



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```
Preparing to unpack .../07-libsharpvuv0_1.3.2-0.4build3_amd64.deb ...
Unpacking libsharpvuv0:amd64 (1.3.2-0.4build3) ...
Selecting previously unselected package libheif-plugin-aomdec:amd64.
Preparing to unpack .../08-libheif-plugin-aomdec_1.17.6-1ubuntu4.1_amd64.deb ...
Unpacking libheif-plugin-aomdec:amd64 (1.17.6-1ubuntu4.1) ...
Selecting previously unselected package libde265-0:amd64.
Preparing to unpack .../09-libde265-0_1.0.15-1build3_amd64.deb ...
Unpacking libde265-0:amd64 (1.0.15-1build3) ...
Selecting previously unselected package libheif-plugin-libde265:amd64.
Preparing to unpack .../10-libheif-plugin-libde265_1.17.6-1ubuntu4.1_amd64.deb ...
Unpacking libheif-plugin-libde265:amd64 (1.17.6-1ubuntu4.1) ...
Selecting previously unselected package libheif1:amd64.
Preparing to unpack .../11-libheif1_1.17.6-1ubuntu4.1_amd64.deb ...
Unpacking libheif1:amd64 (1.17.6-1ubuntu4.1) ...
Selecting previously unselected package libjpeg-turbo8:amd64.
Preparing to unpack .../12-libjpeg-turbo8_2.1.5-2ubuntu2_amd64.deb ...
Unpacking libjpeg-turbo8:amd64 (2.1.5-2ubuntu2) ...
Selecting previously unselected package libjpeg8:amd64.
Preparing to unpack .../13-libjpeg8_8c-2ubuntu11_amd64.deb ...
Unpacking libjpeg8:amd64 (8c-2ubuntu11) ...
Selecting previously unselected package libdeflate0:amd64.
Preparing to unpack .../14-libdeflate0_1.19-1build1.1_amd64.deb ...
Unpacking libdeflate0:amd64 (1.19-1build1.1) ...
Selecting previously unselected package libjbig0:amd64.
Preparing to unpack .../15-libjbig0_2.1-6.1ubuntu2_amd64.deb ...
Unpacking libjbig0:amd64 (2.1-6.1ubuntu2) ...
Selecting previously unselected package liblerc4:amd64.
Preparing to unpack .../16-liblerc4_4.0.0+ds-4ubuntu2_amd64.deb ...
Unpacking liblerc4:amd64 (4.0.0+ds-4ubuntu2) ...
Selecting previously unselected package libwebp7:amd64.
Preparing to unpack .../17-libwebp7_1.3.2-0.4build3_amd64.deb ...
Unpacking libwebp7:amd64 (1.3.2-0.4build3) ...
Selecting previously unselected package libtiff6:amd64.
Preparing to unpack .../18-libtiff6_4.5.1+git230720-4ubuntu2.2_amd64.deb ...
Unpacking libtiff6:amd64 (4.5.1+git230720-4ubuntu2.2) ...
Selecting previously unselected package libxpm4:amd64.
```





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Preparing to unpack .../19-libxpm4\_1%3a3.5.17-1build2\_amd64.deb ...

Unpacking libxpm4:amd64 (1:3.5.17-1build2) ...

Selecting previously unselected package libgd3:amd64.

Preparing to unpack .../20-libgd3\_2.3.3-9ubuntu5\_amd64.deb ...

Unpacking libgd3:amd64 (2.3.3-9ubuntu5) ...

Selecting previously unselected package libc-devtools.

Preparing to unpack .../21-libc-devtools\_2.39-0ubuntu8.3\_amd64.deb ...

Unpacking libc-devtools (2.39-0ubuntu8.3) ...

Selecting previously unselected package linux-libc-dev:amd64.

Preparing to unpack .../22-linux-libc-dev\_6.8.0-51.52\_amd64.deb ...

Unpacking linux-libc-dev:amd64 (6.8.0-51.52) ...

Selecting previously unselected package libcrypt-dev:amd64.

Preparing to unpack .../23-libcrypt-dev\_1%3a4.4.36-4build1\_amd64.deb ...

Unpacking libcrypt-dev:amd64 (1:4.4.36-4build1) ...

Selecting previously unselected package rpcsvc-proto.

Preparing to unpack .../24-rpcsvc-proto\_1.4.2-0ubuntu7\_amd64.deb ...

Unpacking rpcsvc-proto (1.4.2-0ubuntu7) ...

Selecting previously unselected package libc6-dev:amd64.

Preparing to unpack .../25-libc6-dev\_2.39-0ubuntu8.3\_amd64.deb ...

Unpacking libc6-dev:amd64 (2.39-0ubuntu8.3) ...

Selecting previously unselected package libheif-plugin-aomenc:amd64.

Preparing to unpack .../26-libheif-plugin-aomenc\_1.17.6-1ubuntu4.1\_amd64.deb ...

Unpacking libheif-plugin-aomenc:amd64 (1.17.6-1ubuntu4.1) ...

Selecting previously unselected package libncurses-dev:amd64.

Preparing to unpack .../27-libncurses-dev\_6.4+20240113-1ubuntu2\_amd64.deb ...

Unpacking libncurses-dev:amd64 (6.4+20240113-1ubuntu2) ...

Preparing to unpack .../28-linux-tools-common\_6.8.0-51.52\_all.deb ...

Unpacking linux-tools-common (6.8.0-51.52) over (6.8.0-48.48) ...

Selecting previously unselected package manpages-dev.

Preparing to unpack .../29-manpages-dev\_6.7-2\_all.deb ...

Unpacking manpages-dev (6.7-2) ...

Setting up libsharpvuv0:amd64 (1.3.2-0.4build3) ...

Setting up libaom3:amd64 (3.8.2-2ubuntu0.1) ...

Setting up manpages-dev (6.7-2) ...

Setting up liblerc4:amd64 (4.0.0+ds-4ubuntu2) ...

Setting up libxpm4:amd64 (1:3.5.17-1build2) ...



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Setting up libdeflate0:amd64 (1.19-1build1.1) ...  
Setting up linux-libc-dev:amd64 (6.8.0-51.52) ...  
Setting up libaio-dev:amd64 (0.3.113-6build1) ...  
Setting up libjbig0:amd64 (2.1-6.1ubuntu2) ...  
Setting up rpcsvc-proto (1.4.2-0ubuntu7) ...  
Setting up fonts-dejavu-mono (2.37-8) ...  
Setting up fonts-dejavu-core (2.37-8) ...  
Setting up libjpeg-turbo8:amd64 (2.1.5-2ubuntu2) ...  
Setting up libwebp7:amd64 (1.3.2-0.4build3) ...  
Setting up libcrypt-dev:amd64 (1:4.4.36-4build1) ...  
Setting up libde265-0:amd64 (1.0.15-1build3) ...  
Setting up libc-dev-bin (2.39-0ubuntu8.3) ...  
Setting up linux-tools-common (6.8.0-51.52) ...  
Setting up libjpeg8:amd64 (8c-2ubuntu11) ...  
Setting up fontconfig-config (2.15.0-1.1ubuntu2) ...  
Setting up libtiff6:amd64 (4.5.1+git230720-4ubuntu2.2) ...  
Setting up libc6-dev:amd64 (2.39-0ubuntu8.3) ...  
Setting up libncurses-dev:amd64 (6.4+20240113-1ubuntu2) ...  
Setting up libheif-plugin-aomdec:amd64 (1.17.6-1ubuntu4.1) ...  
Setting up libheif-plugin-libde265:amd64 (1.17.6-1ubuntu4.1) ...  
Setting up libheif1:amd64 (1.17.6-1ubuntu4.1) ...  
Setting up libheif-plugin-aomenc:amd64 (1.17.6-1ubuntu4.1) ...  
Processing triggers for libc-bin (2.39-0ubuntu8.3) ...  
Processing triggers for man-db (2.12.0-4build2) ...  
Processing triggers for sgml-base (1.31) ...  
Setting up libfontconfig1:amd64 (2.15.0-1.1ubuntu2) ...  
Setting up libgd3:amd64 (2.3.3-9ubuntu5) ...  
Setting up libc-devtools (2.39-0ubuntu8.3) ...  
Processing triggers for libc-bin (2.39-0ubuntu8.3) ...  
Scanning processes...  
Scanning linux images...  
  
Running kernel seems to be up-to-date.  
  
No services need to be restarted.



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No containers need to be restarted.

No user sessions are running outdated binaries.

No VM guests are running outdated hypervisor (qemu) binaries on this host.

```
root@ip-172-31-26-185:~#
```

```
root@ip-172-31-26-185:~#
```

```
root@ip-172-31-26-185:~#
```

```
root@ip-172-31-26-185:~# wget http://archive.ubuntu.com/ubuntu/pool/main/liba/libaio/libaio1_0.3.112-5_amd64.deb
```

```
--2024-12-27 17:59:28-- http://archive.ubuntu.com/ubuntu/pool/main/liba/libaio/libaio1_0.3.112-5_amd64.deb
```

```
Resolving archive.ubuntu.com (archive.ubuntu.com)... 91.189.91.81, 91.189.91.82, 91.189.91.83, ...
```

```
Connecting to archive.ubuntu.com (archive.ubuntu.com)|91.189.91.81|:80... connected.
```

```
HTTP request sent, awaiting response... 200 OK
```

```
Length: 7184 (7.0K) [application/vnd.debian.binary-package]
```

```
Saving to: 'libaio1_0.3.112-5_amd64.deb'
```

```
libaio1_0.3.112-5_amd64.deb
```

```
100%|=====
```

```
=====>] 7.02K --KB/s in 0s
```

```
2024-12-27 17:59:28 (604 MB/s) - 'libaio1_0.3.112-5_amd64.deb' saved [7184/7184]
```

```
root@ip-172-31-26-185:~# sudo dpkg -i libaio1_0.3.112-5_amd64.deb
```

```
Selecting previously unselected package libaio1:amd64.
```

```
(Reading database ... 74840 files and directories currently installed.)
```

```
Preparing to unpack libaio1_0.3.112-5_amd64.deb ...
```

```
Unpacking libaio1:amd64 (0.3.112-5) ...
```

```
Setting up libaio1:amd64 (0.3.112-5) ...
```

```
Processing triggers for libc-bin (2.39-0ubuntu8.3) ...
```

```
root@ip-172-31-26-185:~# sudo ldconfig
```

```
root@ip-172-31-26-185:~# ldconfig -p | grep libaio
```

```
libaio.so.1t64 (libc6,x86-64) => /lib/x86_64-linux-gnu/libaio.so.1t64
```

```
libaio.so.1 (libc6,x86-64) => /lib/x86_64-linux-gnu/libaio.so.1
```

```
libaio.so (libc6,x86-64) => /lib/x86_64-linux-gnu/libaio.so
```

```
root@ip-172-31-26-185:~# sudo /usr/local/mysql/bin/mysqld --initialize --user=mysql
```

```
2024-12-27T18:01:25.354332Z 0 [System] [MY-013169] [Server] /usr/local/mysql/bin/mysqld (mysqld 8.0.34) initializing of server in progress as process 2234
```



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2024-12-27T18:01:25.421347Z 1 [System] [MY-013576] [InnoDB] InnoDB initialization has started.

2024-12-27T18:01:26.125548Z 1 [System] [MY-013577] [InnoDB] InnoDB initialization has ended.

2024-12-27T18:01:28.267260Z 6 [Note] [MY-010454] [Server] A temporary password is generated for root@localhost: Gk\*h)Qu&O09a

```
root@ip-172-31-26-185:~# sudo cp /usr/local/mysql/support-files/mysql.server /etc/init.d/mysql
```

```
root@ip-172-31-26-185:~# sudo chmod +x /etc/init.d/mysql
```

```
root@ip-172-31-26-185:~# sudo /etc/init.d/mysql start
```

Starting mysql (via systemctl): mysql.service.

```
root@ip-172-31-26-185:~#
```

```
root@ip-172-31-26-185:~#
```

```
root@ip-172-31-26-185:~#
```

```
root@ip-172-31-26-185:~#
```

```
root@ip-172-31-26-185:~# sudo /usr/local/mysql/bin/mysql_secure_installation
```

Securing the MySQL server deployment.

Enter password for user root:

Error: Access denied for user 'root'@'localhost' (using password: YES)

```
root@ip-172-31-26-185:~# sudo /usr/local/mysql/bin/mysql_secure_installation
```

Securing the MySQL server deployment.

Enter password for user root:

Error: Access denied for user 'root'@'localhost' (using password: YES)

```
root@ip-172-31-26-185:~#
```

```
root@ip-172-31-26-185:~#
```

```
root@ip-172-31-26-185:~#
```

```
root@ip-172-31-26-185:~#
```

```
root@ip-172-31-26-185:~# service mysql enable
```

Usage: mysql {start|stop|restart|reload|force-reload|status} [ MySQL server options ]

```
root@ip-172-31-26-185:~#
```

```
root@ip-172-31-26-185:~#
```

```
root@ip-172-31-26-185:~# sudo /usr/local/mysql/bin/mysql_secure_installation
```

Securing the MySQL server deployment.

Enter password for user root:



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Error: Access denied for user 'root'@'localhost' (using password: YES)

```
root@ip-172-31-26-185:~# sudo /usr/local/mysql/bin/mysql_secure_installation
```

Securing the MySQL server deployment.

Enter password for user root:

Error: Access denied for user 'root'@'localhost' (using password: YES)

```
root@ip-172-31-26-185:~# sudo /usr/local/mysql/bin/mysql_secure_installation
```

Securing the MySQL server deployment.

Enter password for user root:

Error: Access denied for user 'root'@'localhost' (using password: YES)

```
root@ip-172-31-26-185:~# /usr/local/mysql/bin/mysql_secure_installation
```

Securing the MySQL server deployment.

Enter password for user root:

Error: Access denied for user 'root'@'localhost' (using password: YES)

```
root@ip-172-31-26-185:~# /usr/local/mysql/bin/mysql_secure_installation
```

Securing the MySQL server deployment.

Enter password for user root:

Error: Access denied for user 'root'@'localhost' (using password: NO)

```
root@ip-172-31-26-185:~# service mysql status
```

● mysql.service - LSB: start and stop MySQL

Loaded: loaded (/etc/init.d/mysql; generated)

Active: active (running) since Fri 2024-12-27 18:02:24 UTC; 8min ago

Docs: man:systemd-sysv-generator(8)

Process: 2337 ExecStart=/etc/init.d/mysql start (code=exited, status=0/SUCCESS)

Tasks: 39 (limit: 1130)

Memory: 404.5M (peak: 435.2M)

CPU: 3.040s

CGroup: /system.slice/mysql.service



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```
|—2345 /bin/sh /usr/local/mysql/bin/mysqld_safe --datadir=/usr/local/mysql/data --pid-file=/usr/local/mysql/data/ip-172-31-26-185.pid
```

```
└─2429 /usr/local/mysql/bin/mysqld --basedir=/usr/local/mysql --datadir=/usr/local/mysql/data --plugin-dir=/usr/local/mysql/lib/plugin --user=mysql --log-error=ip-172-31-26-185.err --pid-file=/usr>
```

Dec 27 18:02:21 ip-172-31-26-185 systemd[1]: Starting mysql.service - LSB: start and stop MySQL...

Dec 27 18:02:21 ip-172-31-26-185 mysql[2337]: Starting MySQL

Dec 27 18:02:22 ip-172-31-26-185 mysql[2337]: .

Dec 27 18:02:22 ip-172-31-26-185 mysql[2345]: Logging to '/usr/local/mysql/data/ip-172-31-26-185.err'.

Dec 27 18:02:24 ip-172-31-26-185 mysql[2337]: . \*

Dec 27 18:02:24 ip-172-31-26-185 systemd[1]: Started mysql.service - LSB: start and stop MySQL.

root@ip-172-31-26-185:~#

root@ip-172-31-26-185:~#

root@ip-172-31-26-185:~#

root@ip-172-31-26-185:~#

root@ip-172-31-26-185:~#

root@ip-172-31-26-185:~#

root@ip-172-31-26-185:~#

root@ip-172-31-26-185:~#

root@ip-172-31-26-185:~# sudo mysql -u root -plocalhost

sudo: mysql: command not found

root@ip-172-31-26-185:~# echo 'export PATH=/usr/local/mysql/bin:\$PATH' | sudo tee -a /etc/profile

export PATH=/usr/local/mysql/bin:\$PATH

root@ip-172-31-26-185:~# source /etc/profile

root@ip-172-31-26-185:~# sudo mysql -u root -plocalhost

sudo: mysql: command not found

root@ip-172-31-26-185:~#

root@ip-172-31-26-185:~#

root@ip-172-31-26-185:~#

root@ip-172-31-26-185:~#

root@ip-172-31-26-185:~# nano ~/.bashrc

root@ip-172-31-26-185:~# source ~/.bashrc

root@ip-172-31-26-185:~# mysql --version

mysql: error while loading shared libraries: libtinfo.so.5: cannot open shared object file: No such file or directory

root@ip-172-31-26-185:~# sudo mysql -u root -plocalhost

sudo: mysql: command not found

root@ip-172-31-26-185:~# sudo nano /etc/profile



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```
root@ip-172-31-26-185:~#
root@ip-172-31-26-185:~#
root@ip-172-31-26-185:~# source /etc/profile
root@ip-172-31-26-185:~#
root@ip-172-31-26-185:~#
root@ip-172-31-26-185:~#
root@ip-172-31-26-185:~# sudo mysql -u root -plocalhost
sudo: mysql: command not found
root@ip-172-31-26-185:~# mysql --version
mysql: error while loading shared libraries: libtinfo.so.5: cannot open shared object file: No such file or directory
root@ip-172-31-26-185:~# apt-get install libncurses5
Reading package lists... Done
Building dependency tree... Done
Reading state information... Done
E: Unable to locate package libncurses5
root@ip-172-31-26-185:~# sudo find / -name "libtinfo.so.6"
/usr/lib/x86_64-linux-gnu/libtinfo.so.6

/snap/core22/1663/usr/lib/x86_64-linux-gnu/libtinfo.so.6
root@ip-172-31-26-185:~# sudo find / -name "libtinfo.so.5"
root@ip-172-31-26-185:~# sudo ln -s /usr/lib/x86_64-linux-gnu/libtinfo.so.6 /usr/lib/x86_64-linux-gnu/libtinfo.so.5
root@ip-172-31-26-185:~# sudo ln -s /usr/lib/x86_64-linux-gnu/libtinfo.so.6 /lib/x86_64-linux-gnu/libtinfo.so.5
ln: failed to create symbolic link '/lib/x86_64-linux-gnu/libtinfo.so.5': File exists
root@ip-172-31-26-185:~# mysql --version
mysql Ver 8.0.34 for Linux on x86_64 (MySQL Community Server - GPL)
root@ip-172-31-26-185:~# mysql -u root -plocalhost
mysql: [Warning] Using a password on the command line interface can be insecure.
ERROR 1045 (28000): Access denied for user 'root'@'localhost' (using password: YES)
root@ip-172-31-26-185:~#
root@ip-172-31-26-185:~#
root@ip-172-31-26-185:~#
root@ip-172-31-26-185:~#
root@ip-172-31-26-185:~#
root@ip-172-31-26-185:~# sudo bin/mysql_secure_installation
sudo: bin/mysql_secure_installation: command not found
root@ip-172-31-26-185:~# ls
```



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```
libaio1_0.3.112-5_amd64.deb mysql-8.0.34-linux-glibc2.12-x86_64.tar.xz snap
```

```
root@ip-172-31-26-185:~# cd et
```

```
-bash: cd: et: No such file or directory
```

```
root@ip-172-31-26-185:~#
```

```
root@ip-172-31-26-185:~#
```

```
root@ip-172-31-26-185:~#
```

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root@ip-172-31-26-185:~#
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root@ip-172-31-26-185:~#
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root@ip-172-31-26-185:~#
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```
root@ip-172-31-26-185:~#
```

```
root@ip-172-31-26-185:~#
```

```
root@ip-172-31-26-185:~#
```

```
root@ip-172-31-26-185:~# /usr/local/mysql/bin/mysql_secure_installation
```

Securing the MySQL server deployment.

Enter password for user root:

The existing password for the user account root has expired. Please set a new password.

New password:

Re-enter new password:

VALIDATE PASSWORD COMPONENT can be used to test passwords  
and improve security. It checks the strength of password  
and allows the users to set only those passwords which are  
secure enough. Would you like to setup VALIDATE PASSWORD component?

Press y|Y for Yes, any other key for No: n

Using existing password for root.

Change the password for root ? ((Press y|Y for Yes, any other key for No) : y

New password:

Re-enter new password:





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By default, a MySQL installation has an anonymous user, allowing anyone to log into MySQL without having to have a user account created for them. This is intended only for testing, and to make the installation go a bit smoother. You should remove them before moving into a production environment.

Remove anonymous users? (Press y|Y for Yes, any other key for No) : y  
Success.

Normally, root should only be allowed to connect from 'localhost'. This ensures that someone cannot guess at the root password from the network.

Disallow root login remotely? (Press y|Y for Yes, any other key for No) : n

... skipping.

By default, MySQL comes with a database named 'test' that anyone can access. This is also intended only for testing, and should be removed before moving into a production environment.

Remove test database and access to it? (Press y|Y for Yes, any other key for No) : y  
- Dropping test database...  
Success.

- Removing privileges on test database...  
Success.

Reloading the privilege tables will ensure that all changes made so far will take effect immediately.

Reload privilege tables now? (Press y|Y for Yes, any other key for No) : y  
Success.



All done!

```
root@ip-172-31-26-185:~#
```

```
root@ip-172-31-26-185:~#
```

```
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```
root@ip-172-31-26-185:~#
```

## Do some Tasks Using MySQL

### 1.Add mysql service to startup

```
root@ip-172-31-26-185:~# sudo /usr/local/mysql/bin/mysqld --initialize --user=mysql
2024-12-27T18:01:25.354332Z 0 [System] [MY-013169] [Server] /usr/local/mysql/bin/mysqld (mysqld 8.0.34) initializing of server in progress as process 2234
2024-12-27T18:01:25.421347Z 1 [System] [MY-013576] [InnoDB] InnoDB initialization has started.
2024-12-27T18:01:26.125548Z 1 [System] [MY-013577] [InnoDB] InnoDB initialization has ended.
2024-12-27T18:01:28.267260Z 6 [Note] [MY-010454] [Server] A temporary password is generated for root@localhost: Gk*h)Qu&009a
root@ip-172-31-26-185:~# sudo cp /usr/local/mysql/support-files/mysql.server /etc/init.d/mysql
root@ip-172-31-26-185:~# sudo chmod +x /etc/init.d/mysql
root@ip-172-31-26-185:~# sudo /etc/init.d/mysql start
Starting mysql (via systemctl): mysql.service.
root@ip-172-31-26-185:~#
```



## 2. Make mysql command accessible from anywhere in the OS

```
root@ip-172-31-26-185:~# echo 'export PATH=/usr/local/mysql/bin:$PATH' | sudo tee -a /etc/profile
export PATH=/usr/local/mysql/bin:$PATH
root@ip-172-31-26-185:~# source /etc/profile
root@ip-172-31-26-185:~# sudo mysql -u root -plocalhost
sudo: mysql: command not found
```

```
root@ip-172-31-26-185:~# sudo find / -name "libtinfo.so.6"
/usr/lib/x86_64-linux-gnu/libtinfo.so.6

/snap/core22/1663/usr/lib/x86_64-linux-gnu/libtinfo.so.6
root@ip-172-31-26-185:~# sudo find / -name "libtinfo.so.5"
root@ip-172-31-26-185:~# sudo ln -s /usr/lib/x86_64-linux-gnu/libtinfo.so.6 /usr/lib/x86_64-linux-gnu/libtinfo.so.5
root@ip-172-31-26-185:~# sudo ln -s /usr/lib/x86_64-linux-gnu/libtinfo.so.6 /lib/x86_64-linux-gnu/libtinfo.so.5
```



### 3.Reset password of root user

```
root@ip-172-31-26-185:~# /usr/local/mysql/bin/mysql_secure_installation
```

Securing the MySQL server deployment.

Enter password for user root:

The existing password for the user account root has expired. Please set a new password.

New password:

Re-enter new password:

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Press y|Y for Yes, any other key for No: n

Using existing password for root.

Change the password for root ? ((Press y|Y for Yes, any other key for No) : y

New password:

Re-enter new password:

By default, a MySQL installation has an anonymous user, allowing anyone to log into MySQL without having to have a user account created for them. This is intended only for testing, and to make the installation go a bit smoother. You should remove them before moving into a production environment.

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Normally, root should only be allowed to connect from 'localhost'. This ensures that someone cannot guess at the root password from the network.

```
Disallow root login remotely? (Press y|Y for Yes, any other key for No) : n
```

... skipping.

By default, MySQL comes with a database named 'test' that anyone can access. This is also intended only for testing, and should be removed before moving into a production environment.

Remove test database and access to it? (Press y|Y for Yes, any other key for No) : y

- Dropping test database...

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Success.

Reloading the privilege tables will ensure that all changes made so far will take effect immediately.

Reload privilege tables now? (Press y|Y for Yes, any other key for No) : y

Success.

All done!

```
root@ip-172-31-26-185:~#
```

```
root@ip-172-31-26-185:~#
```

```
root@ip-172-31-26-185:~#
```

```
root@ip-172-31-26-185:~#
```



## 4. Create a database

```
root@ip-172-31-26-185:~# mysql -u root -pthisara@123
mysql: [Warning] Using a password on the command line interface can be insecure.
Welcome to the MySQL monitor.  Commands end with ; or \g.
Your MySQL connection id is 8
Server version: 8.0.34 MySQL Community Server - GPL

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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> CREATE DATABASE hms_training;
Query OK, 1 row affected (0.01 sec)

mysql>
mysql> SHOW DATABASES;
+-----+
| Database |
+-----+
| hms_training |
| information_schema |
| mysql |
| performance_schema |
| sys |
+-----+
5 rows in set (0.01 sec)

mysql>
```



## 5. Create a database user by my name and grant permission to a database in a way it is accessible by my account and my machine only.

```
root@ip-172-31-26-185:~# mysql -u root -pthisara@123
mysql: [Warning] Using a password on the command line interface can be insecure.
Welcome to the MySQL monitor.  Commands end with ; or \g.
Your MySQL connection id is 9
Server version: 8.0.34 MySQL Community Server - GPL

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owners.

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

mysql> CREATE USER 'thisara'@'localhost' IDENTIFIED BY 'thisara@123';
Query OK, 0 rows affected (0.02 sec)

mysql> GRANT ALL PRIVILEGES ON hms_training * TO 'thisara'@'localhost';
ERROR 1046 (3D000): No database selected
mysql> GRANT ALL PRIVILEGES ON hms_training. * TO 'thisara'@'localhost';
Query OK, 0 rows affected (0.01 sec)

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

mysql>
```

## 6. Create TRANSACTION\_DETAIL table using SQL script and load the provided csv dump.

```
mysql> LOAD DATA INFILE '/var/lib/mysqlfiles/transaction_detail.csv'
-> INTO TABLE TRANSACTION_DETAIL
-> FIELDS TERMINATED BY ',' ENCLOSED BY '"'
-> LINES TERMINATED BY '\n'
-> IGNORE 1 ROWS
-> (SOURCE_ADDRESS, SUBSCRIBER_TYPE, OBJECT_TYPE, STATUS, CREDIT_AMOUNT, REMOTE_TRX_CREATED_TIME);
Query OK, 24 rows affected (0.01 sec)
Records: 24 Deleted: 0 Skipped: 0 Warnings: 0
```





## 7. Write a query to obtain some result set from the table.

```
mysql> SELECT SUM(CREDIT_AMOUNT) AS Total_Credit_Amount
-> FROM TRANSACTION_DETAIL
-> WHERE
->     SOURCE_ADDRESS = 'cargills' AND
->     SUBSCRIBER_TYPE = 'POST' AND
->     OBJECT_TYPE = 'hsenidmobile.mrecharge.model.IPGRemoteMerchantTransactionDetail' AND
->     STATUS = 3 AND
->     REMOTE_TRX_CREATED_TIME BETWEEN '2011-05-01 00:00:00' AND '2012-12-31 23:59:59';
+-----+
| Total_Credit_Amount |
+-----+
|                NULL |
+-----+
1 row in set (0.00 sec)

mysql>
```

## 8. Make execution time of query to less than 3 seconds using indexing techniques.

```
mysql> CREATE INDEX idx_source_address ON TRANSACTION_DETAIL(SOURCE_ADDRESS);
Query OK, 0 rows affected (0.04 sec)
Records: 0 Duplicates: 0 Warnings: 0

mysql> CREATE INDEX idx_subscriber_type ON TRANSACTION_DETAIL(SUBSCRIBER_TYPE);
CREATE INDEX idx_object_type ON TRANSACTION_DETAIL(OBJECT_TYPE);
Query OK, 0 rows affected (0.04 sec)
Records: 0 Duplicates: 0 Warnings: 0

mysql> CREATE INDEX idx_object_type ON TRANSACTION_DETAIL(OBJECT_TYPE);
CREATE INDEX idx_status ON TRANSACTION_DETAIL(STATUS);
CREATE INDEX idx_remote_trx_created_time ON TRANSACTION_DETAIL(REMOTE_TRX_CREATED_TIME);Query OK, 0 rows affected (0.06 sec)
Records: 0 Duplicates: 0 Warnings: 0

mysql> CREATE INDEX idx_status ON TRANSACTION_DETAIL(STATUS);
Query OK, 0 rows affected (0.05 sec)
Records: 0 Duplicates: 0 Warnings: 0

mysql> CREATE INDEX idx_remote_trx_created_time ON TRANSACTION_DETAIL(REMOTE_TRX_CREATED_TIME);
Query OK, 0 rows affected (0.05 sec)
Records: 0 Duplicates: 0 Warnings: 0

mysql>
```



## 9. Create a temporary table and insert first 10 entries of TRANSACTION\_DETAIL table to that.

```
mysql> CREATE TEMPORARY TABLE temp_transaction_detail AS
=> SELECT * FROM TRANSACTION_DETAIL LIMIT 10;
Query OK, 10 rows affected (0.00 sec)
Records: 10 Duplicates: 0 Warnings: 0

mysql>
```

## 10. Identify configuration parameters under my.cnf and show variables

```
mysql> SHOW VARIABLES;
+-----+-----+
| Variable_name | Value |
+-----+-----+
| activate_all_roles_on_login | OFF |
| admin_address | |
| admin_port | 33062 |
| admin_ssl_ca | |
| admin_ssl_capath | |
| admin_ssl_cert | |
| version_compile_os | Linux |
| version_compile_zlib | 1.2.13 |
| wait_timeout | 28800 |
| warning_count | 0 |
| windowing_use_high_precision | ON |
| xa_detach_on_prepare | ON |
+-----+-----+
656 rows in set (0.00 sec)
```





## 11. Increase innodb buffer memory to 512 MB and set the innodb log file size accordingly.

```
GNU nano 7.2
[mysql]
secure_file_priv = /var/lib/mysqlfiles

[mysql]
innodb_buffer_pool_size = 512M
innodb_log_file_size = 128M
```

## 12. Imagine you have lost mysql root password, follow the steps you are going to execute to recover the password.

```
root@ip-172-31-26-185:/etc#
root@ip-172-31-26-185:/etc#
root@ip-172-31-26-185:/etc# mysql_safe --skip-grant-tables &
[1] 11542
root@ip-172-31-26-185:/etc# 2024-12-28T16:33:27.757771Z mysqld_safe Logging to '/usr/local/mysql/data/ip-172-31-26-185.err'.
2024-12-28T16:33:27.776504Z mysqld_safe Starting mysqld daemon with databases from /usr/local/mysql/data
AC
root@ip-172-31-26-185:/etc#
root@ip-172-31-26-185:/etc#
root@ip-172-31-26-185:/etc# mysql -u root
Welcome to the MySQL monitor. Commands end with ; or \g.
Your MySQL connection id is 7
Server version: 8.0.34 MySQL Community Server - GPL

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owners.

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

mysql> USE mysql;
Reading table information for completion of table and column names
You can turn off this feature to get a quicker startup with -A

Database changed
mysql> UPDATE user SET authentication_string=PASSWORD('admin@123') WHERE User='root';
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 '('admin@123') WHERE User='root'' at line 1
mysql> UPDATE user SET password=PASSWORD('admin@123') WHERE User='root';
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 '('admin@123') WHERE User='root'' at line 1
mysql> EXIT;
Bye
root@ip-172-31-26-185:/etc# mysql -u root
Welcome to the MySQL monitor. Commands end with ; or \g.
Your MySQL connection id is 8
Server version: 8.0.34 MySQL Community Server - GPL

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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> ALTER USER 'root'@'localhost' IDENTIFIED BY 'admin@123';
ERROR 1290 (HY000): The MySQL server is running with the --skip-grant-tables option so it cannot execute this statement
mysql> EXIT;
Bye
root@ip-172-31-26-185:/etc#
root@ip-172-31-26-185:/etc#
root@ip-172-31-26-185:/etc#
root@ip-172-31-26-185:/etc#
root@ip-172-31-26-185:/etc#
root@ip-172-31-26-185:/etc#
root@ip-172-31-26-185:/etc# sudo service mysql stop
Warning: the unit file, source configuration file or drop-ins of mysql.service changed on disk. Run 'systemctl daemon-reload' to reload units.
root@ip-172-31-26-185:/etc#
```



## Conclusion

Throughout the process of installing and configuring MySQL on an AWS Linux environment, I encountered several challenges, particularly around the binary installation and configuring the environment for optimal performance. One of the primary challenges was ensuring that all dependencies were correctly installed and configured, which required a thorough understanding of the AWS Linux environment and MySQL requirements. Additionally, I faced some difficulties in configuring user permissions and securing the installation, especially with respect to handling sensitive data and ensuring the database was accessible only by authorized users.

To overcome these challenges, I carefully followed best practices for MySQL installation and database security. I also leveraged the extensive documentation available for both MySQL and AWS, which helped in resolving issues related to configurations and performance optimization. By adjusting MySQL's configuration files, I was able to fine-tune the server to handle varying workloads effectively.

This experience significantly enhanced my knowledge of both database management and cloud-based server administration. I gained valuable hands-on experience in setting up and managing MySQL databases in a cloud environment, which strengthened my skills in database security, performance optimization, and troubleshooting. It also broadened my understanding of how to work with cloud infrastructure, making me more proficient in both database and DevOps practices.