

# MariaDB and Java Installation on your EC2 instance

In this lab you will be able to install a database and java into your EC2 instance.

Type `sudo -s` for elevated permissions

`yum install -y mariadb105-server`

```
[root@ip-172-31-40-221 bin]# yum install -y mariadb105-server
Last metadata expiration check: 0:20:56 ago on Thu Nov  9 09:31:32 2023.
Dependencies resolved.
```

Package	Architecture
Installing:	
mariadb105-server	x86_64
Installing dependencies:	
mariadb-connector-c	x86_64
mariadb-connector-c-config	noarch
mariadb105	x86_64
mariadb105-common	x86_64
mariadb105-errmsg	x86_64
mysql-selinux	noarch
perl-B	x86_64
perl-DBD-MariaDB	x86_64
perl-DBI	x86_64
perl-Data-Dumper	x86_64
perl-File-Copy	noarch
perl-FileHandle	noarch
perl-Math-BigInt	noarch
perl-Math-Complex	noarch
perl-Sys-Hostname	x86_64
perl-base	noarch
Installing weak dependencies:	
mariadb105-backup	x86_64
mariadb105-cracklib-password-check	x86_64
mariadb105-gssapi-server	x86_64
mariadb105-server-utils	x86_64
Transaction Summary	
Install 21 Packages	
Total download size: 20 M	
Installed size: 117 M	

`systemctl enable mariadb`

```
[root@ip-172-31-40-221 bin]# systemctl status mariadb
0 mariadb.service - MariaDB 10.5 database server
   Loaded: loaded (/usr/lib/systemd/system/mariadb.service; enabled; preset: disabled)
   Active: inactive (dead)
     Docs: man:mariadb(8)
           https://mariadb.com/kb/en/library/systemd/

Nov 09 09:39:02 ip-172-31-40-221.ec2.internal mariadb-prepare-db-dir[3945]: able to connect as any of these users with a password and without sudo
Nov 09 09:39:02 ip-172-31-40-221.ec2.internal mariadb-prepare-db-dir[3945]: See the MariaDB Knowledgebase at https://mariadb.com/kb
Nov 09 09:39:02 ip-172-31-40-221.ec2.internal mariadb-prepare-db-dir[3945]: Please report any problems at https://mariadb.org/jira
Nov 09 09:39:02 ip-172-31-40-221.ec2.internal mariadb-prepare-db-dir[3945]: The latest information about MariaDB is available at https://mariadb.org/.
Nov 09 09:39:02 ip-172-31-40-221.ec2.internal mariadb-prepare-db-dir[3945]: Consider joining MariaDB's strong and vibrant community:
Nov 09 09:39:02 ip-172-31-40-221.ec2.internal mariadb-prepare-db-dir[3945]: https://mariadb.org/get-involved/
Nov 09 09:39:02 ip-172-31-40-221.ec2.internal systemd[1]: Started mariadb.service - MariaDB 10.5 database server.
Nov 09 09:51:50 ip-172-31-40-221.ec2.internal systemd[1]: Stopping mariadb.service - MariaDB 10.5 database server...
Nov 09 09:51:50 ip-172-31-40-221.ec2.internal systemd[1]: mariadb.service: Deactivated successfully.
Nov 09 09:51:50 ip-172-31-40-221.ec2.internal systemd[1]: Stopped mariadb.service - MariaDB 10.5 database server.
```

`systemctl start mariadb`

`systemctl status mariadb`

```
[root@ip-172-31-40-221 bin]# systemctl status mariadb
● mariadb.service - MariaDB 10.5 database server
   Loaded: loaded (/usr/lib/systemd/system/mariadb.service; enabled; preset: disabled)
   Active: active (running) since Thu 2023-11-09 09:57:59 UTC; 26s ago
     Docs: man:mariadb(8)
           https://mariadb.com/kb/en/library/systemd/
   Process: 6340 ExecStartPre=/usr/libexec/mariadb-check-socket (code=exited, status=0/SUCCESS)
   Process: 6374 ExecStartPre=/usr/libexec/mariadb-prepare-db-dir mariadb.service (code=exited, status=0/SUCCESS)
   Process: 6482 ExecStartPost=/usr/libexec/mariadb-check-upgrade (code=exited, status=0/SUCCESS)
  Main PID: 6433 (mariabdb)
    Status: "Taking your SQL requests now..."
      Tasks: 11 (limit: 1114)
    Memory: 57.6M
       CPU: 194ms
    CGroup: /system.slice/mariadb.service
            └─6433 /usr/libexec/mariabdb --basedir=/usr
```

mysql -uroot -p (use test1234 as password)

ALTER USER 'root'@'localhost' IDENTIFIED BY 'test1234';

```
[root@ip-172-31-40-221 bin]# mysql -uroot -p
Enter password:
Welcome to the MariaDB monitor.  Commands end with ; or \g.
Your MariaDB connection id is 8
Server version: 10.5.20-MariaDB MariaDB Server

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

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

MariaDB [(none)]> ALTER USER 'root'@'localhost' IDENTIFIED BY 'test1234';
Query OK, 0 rows affected (0.001 sec)

MariaDB [(none)]> 
```

create database servicedb;

```
MariaDB [(none)]> create database servicedb;
```

use servicedb

```
MariaDB [(none)]> use servicedb
Database changed
```

CREATE TABLE coupon (

id int AUTO\_INCREMENT PRIMARY KEY,

code varchar(20) UNIQUE,

discount decimal(8,3),

exp\_date varchar(100)

);

```
MariaDB [servicedb]> CREATE TABLE coupon (
-> id int AUTO_INCREMENT PRIMARY KEY,
-> code varchar(20) UNIQUE,
-> discount decimal(8,3),
-> exp_date varchar(100)
-> );
Query OK, 0 rows affected (0.010 sec)
```

CTRL+C to exit mariadb

```
MariaDB [servicedb]> Ctrl-C -- exit!  
Aborted
```

yum install java-1.8.0-amazon-corretto.x86\_64

```
[root@ip-172-31-40-221 bin]# yum install java-1.8.0-amazon-corretto.x86_64  
Last metadata expiration check: 0:42:48 ago on Thu Nov  9 09:31:32 2023.  
Dependencies resolved.
```

To check if java was installed type:

java -version

```
shared-mime-info-2.2-2.amzn2023.0.1.x86_64 tracker-3.1.2-1.amzn2023.0.2.x86_64  
Complete!  
[root@ip-172-31-40-221 bin]# java -version  
openjdk version "1.8.0_392"  
OpenJDK Runtime Environment Corretto-8.392.08.1 (build 1.8.0_392-b08)  
OpenJDK 64-Bit Server VM Corretto-8.392.08.1 (build 25.392-b08, mixed mode)  
[root@ip-172-31-40-221 bin]#
```