**DEPLOYING DJANGO APPLICATION IN AWS – EC2 INSTANCE**

PS C:\Users\kamal\OneDrive\Desktop\Python\KeyPairs> ssh -i "Kumar\_All\_KeyPair.pem" ec2-user@ec2-34-251-109-52.eu-west-1.compute.amazonaws.com

The authenticity of host 'ec2-34-251-109-52.eu-west-1.compute.amazonaws.com (34.251.109.52)' can't be established.

ED25519 key fingerprint is SHA256:zSj9We4Zi3Ho2j+ojzSGZK9C5YBpMFiP7MIB1Sio24w.

This host key is known by the following other names/addresses:

C:\Users\kamal/.ssh/known\_hosts:2: 34.251.109.52

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

Warning: Permanently added 'ec2-34-251-109-52.eu-west-1.compute.amazonaws.com' (ED25519) to the list of known hosts.

, #\_

~\\_ ####\_ Amazon Linux 2023

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~~ \###|

~~ \#/ \_\_\_ https://aws.amazon.com/linux/amazon-linux-2023

~~ V~' '->

~~~ /

~~.\_. \_/

\_/ \_/

\_/m/'

Last login: Sat May 25 07:48:21 2024 from 37.228.206.3

[ec2-user@ip-172-31-24-235 ~]$ sudo -i

[root@ip-172-31-24-235 ~]#

**INSTALL MARIADB SERVER ON THE INSTANCE**

[root@ip-172-31-24-235 ~]# yum install mariadb105-server -y

Last metadata expiration check: 0:35:30 ago on Sat May 25 07:43:37 2024.

Dependencies resolved.

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Package Architecture Version Repository Size

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Installing:

mariadb105-server x86\_64 3:10.5.23-1.amzn2023.0.1 amazonlinux 11 M

Installing dependencies:

..

..

..

mariadb105-server-utils x86\_64 3:10.5.23-1.amzn2023.0.1 amazonlinux 216 k

**Transaction Summary**

**========================================================================================================================**

**Install 22 Packages**

Total download size: 20 M

Installed size: 118 M

**Downloading Packages:**

(1/22): mariadb-connector-c-config-3.1.13-1.amzn2023.0.3.noarch.rpm 155 kB/s | 9.2 kB 00:00

….

….

(22/22): perl-base-2.27-477.amzn2023.0.6.noarch.rpm 141 kB/s | 17 kB 00:00

Total 27 MB/s | 20 MB 00:00

**Running transaction check**

**Transaction check succeeded.**

**Running transaction test**

**Transaction test succeeded.**

**Running transactio**n

**Installed:**

mariadb-connector-c-3.1.13-1.amzn2023.0.3.x86\_64 mariadb-connector-c-config-3.1.13-1.amzn2023.0.3.noarch mariadb105-3:10.5.23-1.amzn2023.0.1.x86\_64

mariadb105-backup-3:10.5.23-1.amzn2023.0.1.x86\_64 mariadb105-common-3:10.5.23-1.amzn2023.0.1.x86\_64 mariadb105-cracklib-password-check-3:10.5.23-1.amzn2023.0.1.x86\_64

mariadb105-errmsg-3:10.5.23-1.amzn2023.0.1.x86\_64 mariadb105-gssapi-server-3:10.5.23-1.amzn2023.0.1.x86\_64 mariadb105-server-3:10.5.23-1.amzn2023.0.1.x86\_64

mariadb105-server-utils-3:10.5.23-1.amzn2023.0.1.x86\_64 mysql-selinux-1.0.4-2.amzn2023.0.3.noarch perl-B-1.80-477.amzn2023.0.6.x86\_64

perl-DBD-MariaDB-1.22-1.amzn2023.0.4.x86\_64 perl-DBI-1.643-7.amzn2023.0.3.x86\_64 perl-Data-Dumper-2.174-460.amzn2023.0.2.x86\_64

perl-File-Copy-2.34-477.amzn2023.0.6.noarch perl-FileHandle-2.03-477.amzn2023.0.6.noarch perl-Math-BigInt-1:1.9998.39-2.amzn2023.0.2.noarch

perl-Math-BigRat-0.2614-458.amzn2023.0.2.noarch perl-Math-Complex-1.59-477.amzn2023.0.6.noarch perl-Sys-Hostname-1.23-477.amzn2023.0.6.x86\_64

perl-base-2.27-477.amzn2023.0.6.noarch

Complete!

[root@ip-172-31-24-235 ~]#

**ENABLE AND START MARIA DB SERVER**

[root@ip-172-31-24-235 ~]# sudo systemctl enable mariadb

Created symlink /etc/systemd/system/mysql.service → /usr/lib/systemd/system/mariadb.service.

Created symlink /etc/systemd/system/mysqld.service → /usr/lib/systemd/system/mariadb.service.

Created symlink /etc/systemd/system/multi-user.target.wants/mariadb.service → /usr/lib/systemd/system/mariadb.service.

[root@ip-172-31-24-235 ~]# sudo systemctl start mariadb

[root@ip-172-31-24-235 ~]# sudo 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 Sat 2024-05-25 08:22:29 UTC; 7s ago

Docs: man:mariadbd(8)

https://mariadb.com/kb/en/library/systemd/

Process: 27601 ExecStartPre=/usr/libexec/mariadb-check-socket (code=exited, status=0/SUCCESS)

Process: 27623 ExecStartPre=/usr/libexec/mariadb-prepare-db-dir mariadb.service (code=exited, status=0/SUCCESS)

May 25 08:22:29 ip-172-31-24-235.eu-west-1.compute.internal systemd[1]: Started mariadb.service - MariaDB 10.5 database server.

[root@ip-172-31-24-235 ~]#

[root@ip-172-31-24-235 ~]# yum install mariadb105-server -y

[root@ip-172-31-24-235 ~]# sudo systemctl enable mariadb

…..

…..

[root@ip-172-31-24-235 ~]# sudo systemctl start MariaDB

[root@ip-172-31-24-235 ~]# sudo 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 Sat 2024-05-25 08:22:29 UTC; 7s ago

Docs: man:mariadbd(8)

https://mariadb.com/kb/en/library/systemd/

└─27708 /usr/libexec/mariadbd --basedir=/usr

May 25 08:22:29 ip-172-31-24-235.eu-west-1.compute.internal mariadb-prepare-db-dir[27662]: https://mariadb.org/get-involved/

May 25 08:22:29 ip-172-31-24-235.eu-west-1.compute.internal systemd[1]: Started mariadb.service - MariaDB 10.5 database server.

[root@ip-172-31-24-235 ~]#

[root@ip-172-31-24-235 ~]# sudo mysql\_secure\_installation

…..

NOTE: RUNNING ALL PARTS OF THIS SCRIPT IS RECOMMENDED FOR ALL MariaDB

SERVERS IN PRODUCTION USE! PLEASE READ EACH STEP CAREFULLY!

In order to log into MariaDB to secure it, we'll need the current

password for the root user. If you've just installed MariaDB, and

haven't set the root password yet, you should just press enter here.

Enter current password for root (enter for none):

OK, successfully used password, moving on...

Setting the root password or using the unix\_socket ensures that nobody

can log into the MariaDB root user without the proper authorisation.

You already have your root account protected, so you can safely answer 'n'.

Switch to unix\_socket authentication [Y/n] Y

Enabled successfully!

Reloading privilege tables..

... Success!

You already have your root account protected, so you can safely answer 'n'.

Change the root password? [Y/n] Y

New password:Jerrick2911

Re-enter new password:Jerrick2911

Password updated successfully!

Reloading privilege tables..

... Success!

By default, a MariaDB installation has an anonymous user, allowing anyone

to log into MariaDB 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? [Y/n] n

... skipping.

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? [Y/n] n

... skipping.

By default, MariaDB 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? [Y/n] n

... skipping.

Reloading the privilege tables will ensure that all changes made so far

will take effect immediately.

Reload privilege tables now? [Y/n] n

... skipping.

Cleaning up...

All done! If you've completed all of the above steps, your MariaDB

installation should now be secure.

Thanks for using MariaDB!

[root@ip-172-31-24-235 ~]#

[root@ip-172-31-24-235 ~]# mysql -uroot -p

Enter password: Jerrick2911

Welcome to the MariaDB monitor. Commands end with ; or \g.

Your MariaDB connection id is 8

Server version: 10.5.23-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)]>

MariaDB [(none)]> create database clinicalsDb

-> ;

Query OK, 1 row affected (0.000 sec)

MariaDB [(none)]> use clinicalsDb;

Database changed

MariaDB [clinicalsDb]>top

[root@ip-172-31-24-235 ~]# sudo yum install python3 python3-pip -y

Last metadata expiration check: 1:05:43 ago on Sat May 25 07:43:37 2024.

Package python3-3.9.16-1.amzn2023.0.8.x86\_64 is already installed.

Dependencies resolved.

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Package Architecture Version Repository Size

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Installing:

python3-pip noarch 21.3.1-2.amzn2023.0.7 amazonlinux 1.8 M

Installing weak dependencies:

libxcrypt-compat x86\_64 4.4.33-7.amzn2023 amazonlinux 92 k

Transaction Summary

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Install 2 Packages

Total download size: 1.9 M

Installed size: 11 M

Downloading Packages:

(1/2): libxcrypt-compat-4.4.33-7.amzn2023.x86\_64.rpm 1.5 MB/s | 92 kB 00:00

(2/2): python3-pip-21.3.1-2.amzn2023.0.7.noarch.rpm 21 MB/s | 1.8 MB 00:00

-----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------

Total 14 MB/s | 1.9 MB 00:00

Running transaction check

Transaction check succeeded.

Running transaction test

Transaction test succeeded.

Running transaction

Preparing : 1/1

Installing : libxcrypt-compat-4.4.33-7.amzn2023.x86\_64 1/2

Installing : python3-pip-21.3.1-2.amzn2023.0.7.noarch 2/2

Running scriptlet: python3-pip-21.3.1-2.amzn2023.0.7.noarch 2/2

Verifying : libxcrypt-compat-4.4.33-7.amzn2023.x86\_64 1/2

Verifying : python3-pip-21.3.1-2.amzn2023.0.7.noarch 2/2

Installed:

libxcrypt-compat-4.4.33-7.amzn2023.x86\_64 python3-pip-21.3.1-2.amzn2023.0.7.noarch

Complete!

[root@ip-172-31-24-235 ~]#