Follow the steps in document and complete the assignment Note: complete the S3 endpoint assignment first and then start this assignment

Overview

Web server (nginx) - Public Instance

App server (Mattermost) - Private Instance

DB server(mysql) - Private Instance

(NOTE: In your private instance there won't be any access to the internet)

1. Download rpm packages using wget in your public instance

http://dev.mysql.com/get/mysql57-community-release-el7-9.noarch.rpm

https://dev.mysql.com/get/Downloads/MySQL-5.7/mysql-community-common-5.7.38-

1.el7.x86 64.rpm

https://dev.mysql.com/get/Downloads/MySQL-5.7/mysql-community-libs-5.7.38-1.el7.x86_64.rpm https://dev.mysql.com/get/Downloads/MySQL-5.7/mysql-community-client-5.7.38-1.el7.x86_64.rpm https://dev.mysql.com/get/Downloads/MySQL-5.7/mysql-community-server-5.7.38-

1.el7.x86 64.rpm

- 2. Use SCP protocol to copy the rpm packages into your private instance and then perform localinstall Steps to Install my sql in a Private Instance
- 1. Login to one of your Private Instance
- 2. Execute the command sudo yum erase mariadb-libs (need to remove since it has some conflicts with mysql)
- 4. Run sudo yum localinstall "Provide the rpm file name of community release"
- 6. Run sudo yum localinstall "Provide the rpm file name community-common"
- 8. Run sudo yum localinstall "Provide the rpm file name community libs"
- 10. Run sudo yum localinstall "Provide the rpm file name community client"
- 12. Run sudo yum localinstall "Provide the rpm file name community server"
- 13. Follow from the step 4 from the mattermost software Installation doc and complete the my sql installation

alone

- 14. Add an Inbound rule in the security group of your private Instance where sql is installed Steps to Run Mattermost in your Private Instance
- 1. Login to another private Instance
- 2. Configure and Run the mattermost server using the mattermost software Installation doc
- 3. Add an Inbound rule in the security group of your private Instance Steps to install nginx and configure mattermost in your Public Instance
- 1. Login to your public Instance
- 2. Follow the steps from the mattermost software Installation doc for Installing nginx and configuring nginx as a proxy for mattermost
- 3. Add an Inbound rule in the security group of public instance You should now successfully launch mattermost server in any browser using your webserver url http://"your_pub_ip"

Created 3 instances 1st→ web-server-nginx→ public instance

$2^{nd} \rightarrow DB$ -server-mysgl \rightarrow private instance

3rd→app-server-mattermost→private instance

web-server-nginx	i-0bd055b6bab	⊘ Running ② Q t2.micro	ap-south-1a	-
DB-server-mysql	i-076d0591354	⊘ Running ② Q t2.micro	ap-south-1a	-
app-server-mattermost	i-0f566c3dbe7	⊘ Running ② Q t2.micro	ap-south-1a	-

Login into a public instance

Download mysql RPMs

Using scp I haved copied them to private instance(DB-server-mysql)

Login into DB-server-mysql instance

Install mysql

```
[ec2-user@ip-10-0-4-246 ~]$ sudo yum erase mariadb-libs
 No match for argument: mariadb-libs
 No packages marked for removal.
 Dependencies resolved.
 Nothing to do.
 Complete!
 [ec2-user@ip-10-0-4-246 ~]$
[ec2-user@ip-10-0-4-246 ~]$ sudo yum localinstall mysql57-community-release-el7-9.noarch.rpm
Last metadata expiration check: 0:20:03 ago on Sat Nov 11 04:50:04 2023.
Dependencies resolved.
 Installed:
    mysgl57-community-release-el7-9.noarch
 Complete!
 [ec2-user@ip-10-0-4-246 ~]$
[ec2-user@ip-10-0-4-246 ~]$ sudo yum localinstall mysql-com
MySQL Connectors Community
 Installed:
    mysql-community-common-5.7.38-1.el7.x86_64
 Complete!
 [ec2-user@ip-10-0-4-246 ~]$
[ec2-user@ip-10-0-4-246 ~]$ sudo yum localinstall mysql-community-libs-5.7.38-1.el7.x86_64.rpm MySQL Connectors Community
                                                                                 0.0 B/s | 0 B 02:00
  Installed:
    mysql-community-libs-5.7.38-1.el7.x86_64
 Complete!
 [ec2-user@ip-10-0-4-246 ~]$
  mysql-community-client-5.7.38-1.el7.x86_64
                                                        ncurses-compat-libs-6.2-4.20200222.amzn2023.0.4.x86_64
 [ec2-user@ip-10-0-4-246 ~]$
[ec2-user@ip-10-0-4-246 ~]$ sudo yum localinstall mysql-community-server-5.7.38-1.el7.x86_64.rpm
MySQL Connectors Community
                                                                               0.0 B/s | 0 B 02:00
```

Start the service

Installed:

```
[ec2-user@ip-10-0-4-246 ~]$ sudo systemctl start mysqld.service
[ec2-user@ip-10-0-4-246 ~]$|
```

mysql-community-server-5.7.38-1.el7.x86_64

View temporary password

Complete! [ec2-user@ip-10-0-4-246 ~]\$|

libxcrypt-compat-4.4.33-7.amzn2023.x86_64

```
[ec2-user@ip-10-0-4-246 ~]$ sudo grep 'temporary password' /var/log/mysqld.log
2023-11-11705:46:06.626506Z 1 [Note] A temporary password is generated for root@localhost: ;JZUh?#7n:j+
[ec2-user@ip-10-0-4-246 ~]$ |
```

Login into mysql

```
[ec2-user@ip-10-0-4-246 ~]$ mysql -u root -p
Enter password:
Welcome to the MySQL monitor. Commands end with ; or \g.
Your MySQL connection id is 2
Server version: 5.7.38

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

mysql>
```

Change password

```
mysql> ALTER USER 'root'@'localhost' IDENTIFIED BY 'Jalikoppa@2002';
Query OK, 0 rows affected (0.00 sec)
mysql>|
```

Create mattermost user

```
mysql> CREATE USER 'mmuser'@'%' IDENTIFIED BY 'Jalikoppa@2002';
Query OK, 0 rows affected (0.01 sec)
```

Grant all privileges

```
mysql> GRANT ALL PRIVILEGES ON *.* TO 'mmuser'@'%';
Query OK, 0 rows affected (0.01 sec)
mysql> exit
Bye
[ec2-user@ip-10-0-4-246 ~]$ |
```

Enable the service

```
[ec2-user@ip-10-0-4-246 ~]$ sudo systemctl enable mysqld
[ec2-user@ip-10-0-4-246 ~]$ |
```

I have installed mattermost in public instance and copied it to app-server-mattermost instance using scp

```
[ec2-user@ip-10-0-4-211 ~]$ ls
mattermost
[ec2-user@ip-10-0-4-211 ~]$ |
```

Install nginx in public instance

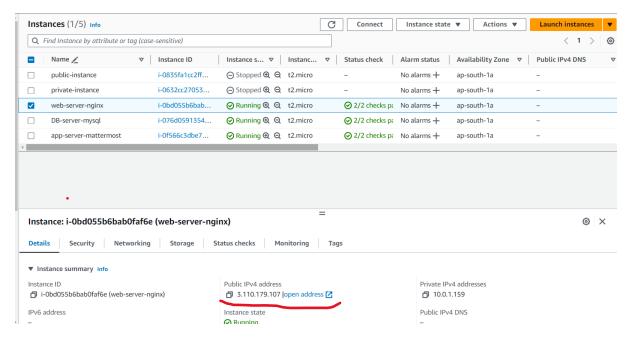
Configure the mattermost

```
[ec2-user@ip-10-0-4-211 ~]$ sudo mv mattermost /opt
[ec2-user@ip-10-0-4-211 ~]$ sudo mkdir /opt/mattermost/data
[ec2-user@ip-10-0-4-211 ~]$ sudo groupadd mattermost

[ec2-user@ip-10-0-4-211 mattermost]$ sudo vi /opt/mattermost/config/config.json
[ec2-user@ip-10-0-4-211 mattermost]$ sudo -u mattermost /bin/mattermost
```

Start mattermost

We need to access using public ip



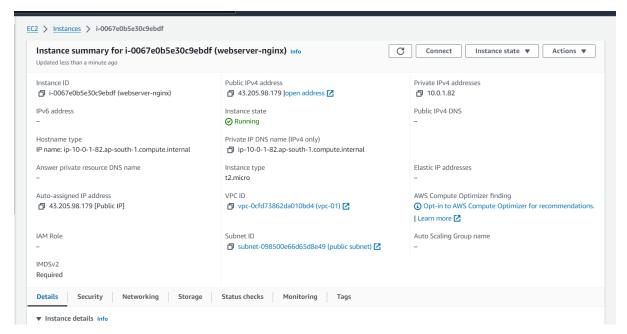
Type ip in browser



I got confusion in the inbound rules before I have corrected and done the below assignment

Continuing the assignment that is asked to be resubmitted

Every time we reboot the instance the ip gets changed currently my public ip is 43.205.98.179



Type ip in url you will be able to access the mattermost page

