Implement 3 tier architecture in AWS

Instructions

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.mysgl.com/get/mysgl57-community-release-el7-9.noarch.rpm

https://dev.mysql.com/get/Downloads/MySQL-5.7/mysql-community-common-5.7.38-1.el7.x8 6 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

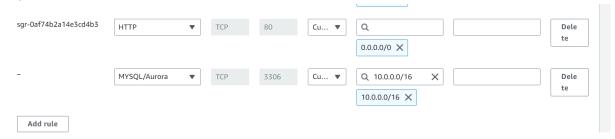
A:

```
[ec2-user@ip-10-0-2-106 ~]$ ls
mysql-community-client-5.7.38-1.el7.x86_64.rpm
mysql-community-common-5.7.38-1.el7.x86_64.rpm
mysql-community-release-el7-9.noarch.rpm
mysql-community-libs-5.7.38-1.el7.x86_64.rpm
[ec2-user@ip-10-0-2-106 ~]$
```

Steps to Install my sql in a Private Instance

- 1. Login to one of your Private Instance
- . Execute the command sudo yum erase mariadb-libs (need to remove since it has some conflicts with mysql)
- 2 4. Run sudo yum localinstall "Provide the rpm file name of community release"
- 6. Run sudo yum localinstall "Provide the rpm file name community ammon"
- 8. Run sudo yum localinstall "Provide the rpm file name community libs"
- 10. Run sudo yum localinstall "Provide the rpm file name community client"

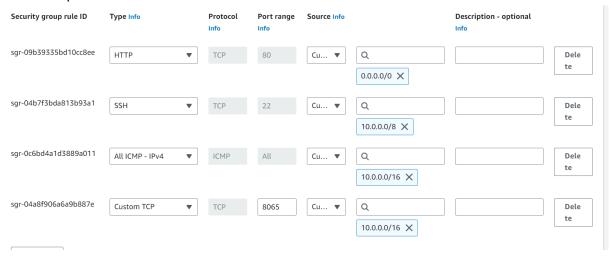
- 12. Run sudo yum localinstall "Provide the rpm file name community server"
- 13. Follow from the step 4 from the mattermost software Installation doc and complete the my sql installation alone
- 14. Add en Inbound rule in the security group of your private Instance where sql is installed A: private instance 1 mysql/aurora



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 and rules

A: private instance 2 custom tcp

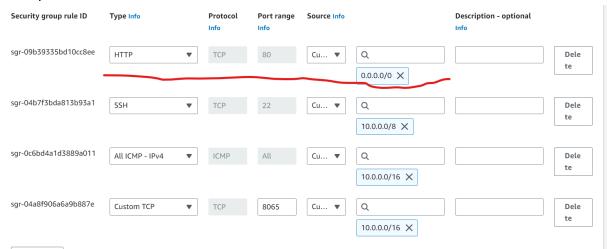


Steps to install nginx and configure mattermost in your Public Instance

- 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

A: public instnace

A: http



FINAL OUTPUT

