INSTALLATION GUIDE FOR IBM MQ SERVER 9.2

1. This guide will help with regards to installing IBM MQ 9.2 on an AWS Linux based server. For this installation a RHEL 8.2 SAP HVM AMI was used. The first step is to create a t3.small instance on AWS and perform the configurations to connect to it remotely using any ssh terminal.

2. You can then add a new user to the system e.g., mquser. Make sure to configure the new user so that they can use the original keypair file to authenticate. Do this by copying the .ssh file in /home/ec2-user to the new user by using the below command

   ```
   cp -r .ssh /home/mquser
   ```

   The command works provided you have a user named mquser. Remember that this is a hidden folder. You can also add the new mquser into the sudoers file in the */etc* directory so that it allows you to perform sudo commands with this new user. Make sure to give ownership of the .ssh directory to this new user and group.

3. Upload the IBM_MQ_9.2.0_LINUX_X86-64_TRIAL.tar.gz to your server via an FTP terminal. Make sure to move the file to the directory */var/tmp*.

4. Log in as root user by using the su command and make sure you are performing the following commands as the root user. The tar.gz file can also be changed to root ownership. Explode and untar the tar file by using the below command

   ```
   tar -xzvf IBM_MQ_9.2.0_LINUX_X86-64_TRIAL.tar.gz
   ```

   This will unpack the dependencies and MQ services into a new directory MQServer within that installation directory.

5. To accept the installation license. Navigate into the newly created directory MQServer where the installations are contained and run the mqlicense.sh script by using the following command.

   ```
   ./mqlicense.sh -accept
   ```

6. Now install the rpm packages that are needed to run IBM MQ commands, run the below command.

   ```
   rpm -ivh MQSeries*.rpm
   ```

This will help install the rpm packages and the wildcard used will install every rpm package within that directory. Ignore the warning messages.

7. To check if the rpm packages installed successfully, you can then grep for mq and see if the packages will be displayed by the command.

```
rpm -qa | grep -i mq
```

8. The above steps should all be a pass. Then to set the installation directory as primary install, navigate to */opt/mqm/bin*. By running the mq command *dspmqver* this is supposed to output the MQ version for the installation and show an output but since primary install is not set, then it will not find this command. To set primary install, run the below script.

```
./setmqinst -i -p /opt/mqm
```

9. To verify if you have set the installation directory as primary, run the *dspmqver* command and see if it outputs IBM MQ version and details. Once you can run the *dspmqver* and an output is observed then means you have done a successful deployment of the IBM MQ Sever.