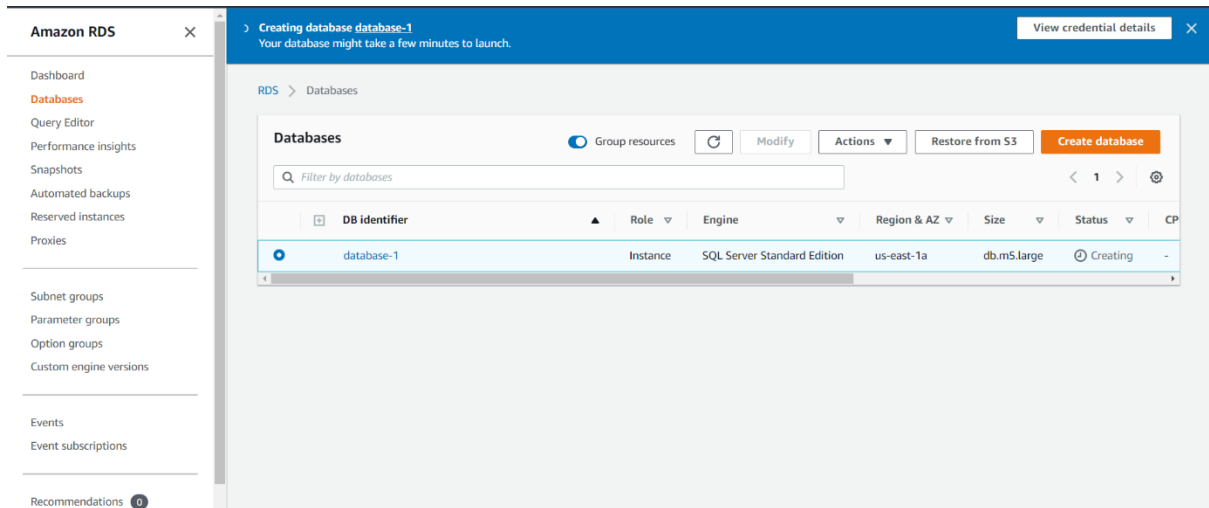


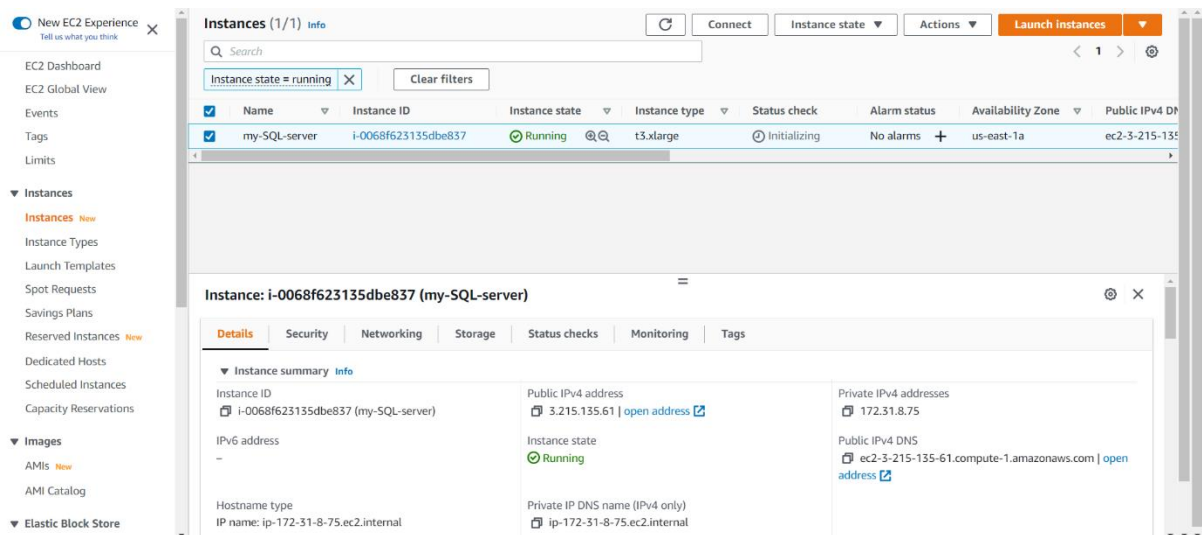
## PROJECT-4

# Migrate Database from on prem to AWS. [Hint : Use DMS]

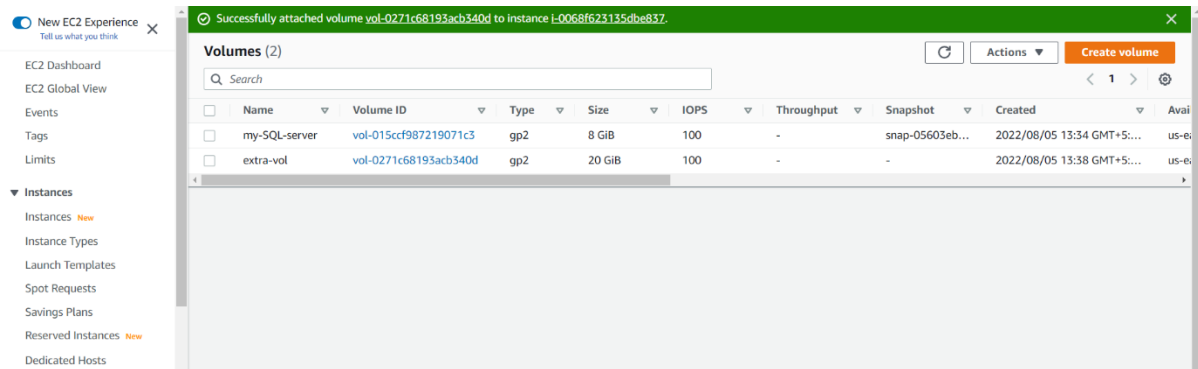
### STEP1---CREATING RDS



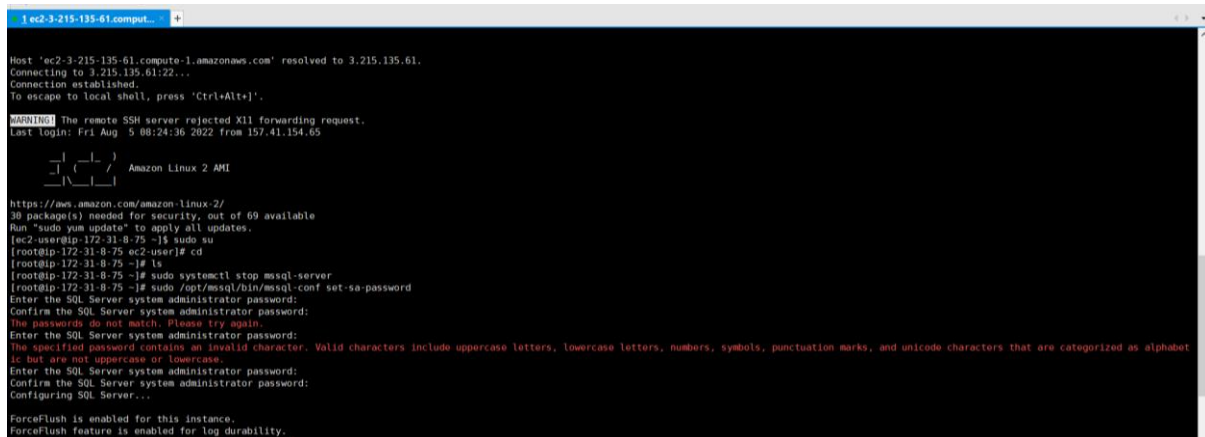
### STEP2---CREATING SQL SERVER



## STEP3---ATTACHING EXTRA VOLUME



## STEP 4---CREATING SA PASSWORD



## STEP 5---MOUNTING EXTRA VOLUME

```
1 ec2-3-215-135-61.compute-1.amazonaws.com
ForceFlush feature is enabled for log durability.
The system administrator password has been changed.
Please run 'sudo systemctl start mssql-server' to start SQL Server.
[root@ip-172-31-0-75 ~]# lsblk
NAME        MAJ:MIN RM SIZE RO TYPE MOUNTPOINT
nvme0n1     259:0    0 8G  0 disk
└─nvme0n1p1 259:1    0 8G  0 part /
└─nvme0n1p2 259:2    0 1M  0 part
nvme1n1     259:3    0 28G  0 disk
[root@ip-172-31-0-75 ~]# mkfs.ext4 /dev/nvme1n1
mke2fs 1.42.9 (28-Dec-2013)
Filesystem label=
OS type: Linux
Block size=4096 (log=2)
Fragment size=4096 (log=2)
Stride=0 blocks, Stripe width=0 blocks
1310720 inodes, 5242880 blocks
262144 blocks (5.00%) reserved for the super user
First data block=0
Maximum filesystem blocks=2153775104
160 block groups
32768 blocks per group, 32768 fragments per group
8192 inodes per group
Superblock backups stored on blocks:
32768, 96384, 163840, 229376, 294912, 819200, 884736, 1605632, 2654208,
4096000

Allocating group tables: done
Writing inode tables: done
Creating journal (32768 blocks): done
Writing superblocks and filesystem accounting information: done

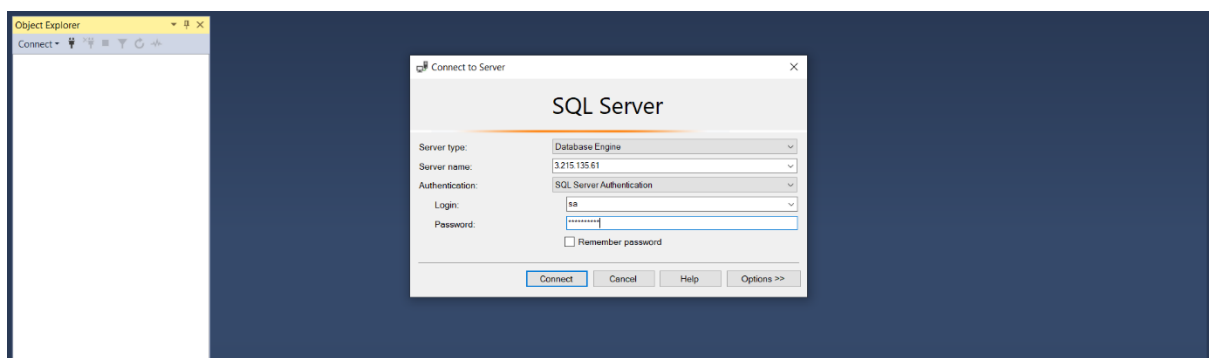
[root@ip-172-31-0-75 ~]# sudo mkdir /SQLServerData
[root@ip-172-31-0-75 ~]# sudo mount /dev/nvme1n1 /SQLServerData
[root@ip-172-31-0-75 ~]# sudo chown mssql /SQLServerData
[root@ip-172-31-0-75 ~]# sudo chgrp mssql /SQLServerData
[root@ip-172-31-0-75 ~]# sudo /opt/mssql/bin/mssql-conf set filelocation.defaultdatadir /SQLServerData
SQL Server needs to be restarted in order to apply this setting. Please run
'systemctl restart mssql-server.service'.
[root@ip-172-31-0-75 ~]# systemctl restart mssql-server.service
[root@ip-172-31-0-75 ~]# lsblk
NAME        MAJ:MIN RM SIZE RO TYPE MOUNTPOINT
```

```
1 ec2-3-215-135-61.compute-1.amazonaws.com
└─nvme0n1p1 259:1    0 8G  0 part /
└─nvme0n1p2 259:2    0 1M  0 part
nvme1n1     259:3    0 28G  0 disk
[root@ip-172-31-0-75 ~]# mkfs.ext4 /dev/nvme1n1
mke2fs 1.42.9 (28-Dec-2013)
Filesystem label=
OS type: Linux
Block size=4096 (log=2)
Fragment size=4096 (log=2)
Stride=0 blocks, Stripe width=0 blocks
1310720 inodes, 5242880 blocks
262144 blocks (5.00%) reserved for the super user
First data block=0
Maximum filesystem blocks=2153775104
160 block groups
32768 blocks per group, 32768 fragments per group
8192 inodes per group
Superblock backups stored on blocks:
32768, 96384, 163840, 229376, 294912, 819200, 884736, 1605632, 2654208,
4096000

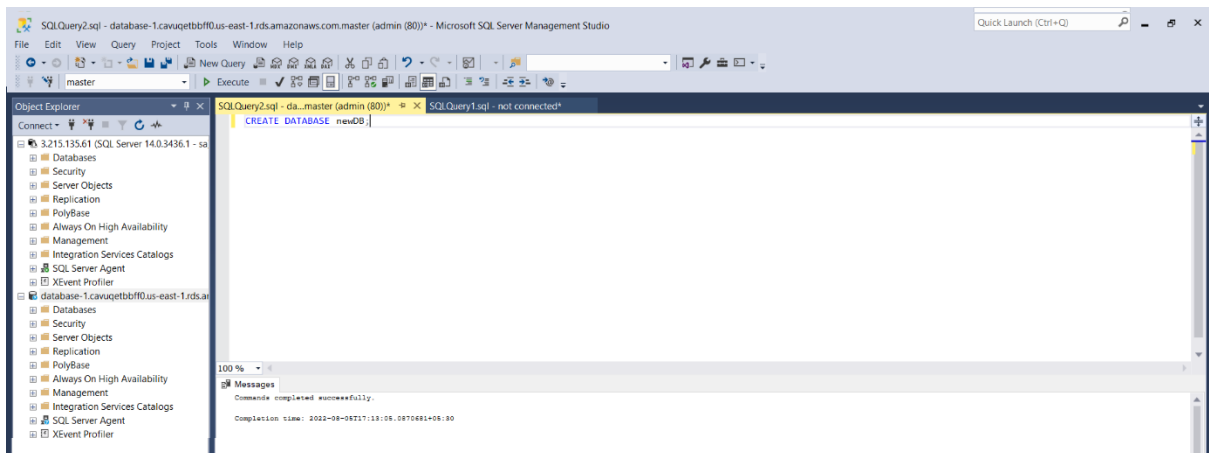
Allocating group tables: done
Writing inode tables: done
Creating journal (32768 blocks): done
Writing superblocks and filesystem accounting information: done

[root@ip-172-31-0-75 ~]# sudo mkdir /SQLServerData
[root@ip-172-31-0-75 ~]# sudo mount /dev/nvme1n1 /SQLServerData
[root@ip-172-31-0-75 ~]# sudo chown mssql /SQLServerData
[root@ip-172-31-0-75 ~]# sudo chgrp mssql /SQLServerData
[root@ip-172-31-0-75 ~]# sudo /opt/mssql/bin/mssql-conf set filelocation.defaultdatadir /SQLServerData
SQL Server needs to be restarted in order to apply this setting. Please run
'systemctl restart mssql-server.service'.
[root@ip-172-31-0-75 ~]# systemctl restart mssql-server.service
[root@ip-172-31-0-75 ~]# lsblk
NAME        MAJ:MIN RM SIZE RO TYPE MOUNTPOINT
nvme0n1     259:0    0 8G  0 disk
└─nvme0n1p1 259:1    0 8G  0 part /
└─nvme0n1p2 259:2    0 1M  0 part
nvme1n1     259:3    0 28G  0 disk /SQLServerData
[root@ip-172-31-0-75 ~]# nano /etc/fstab
[root@ip-172-31-0-75 ~]#
```

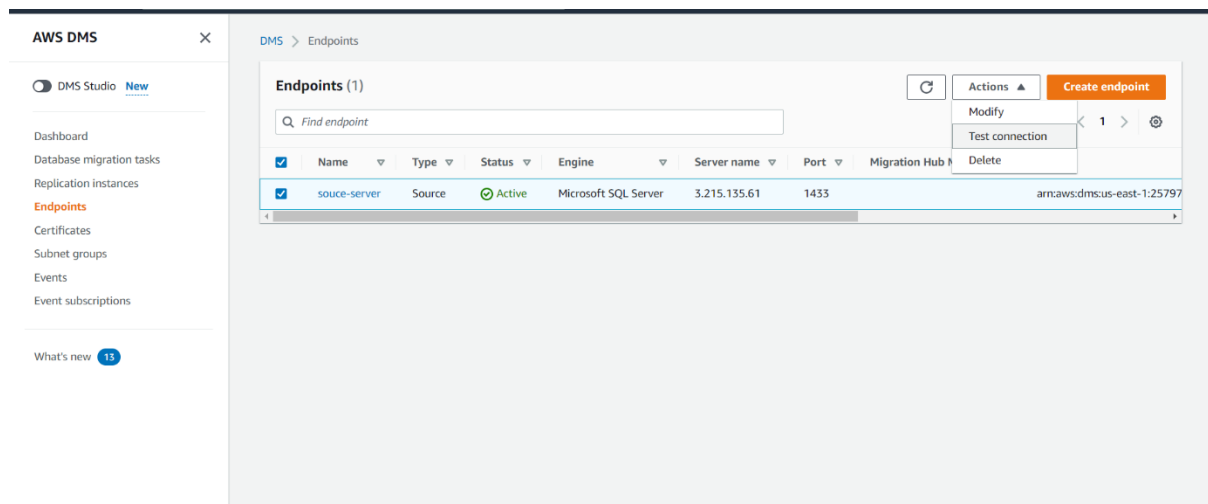
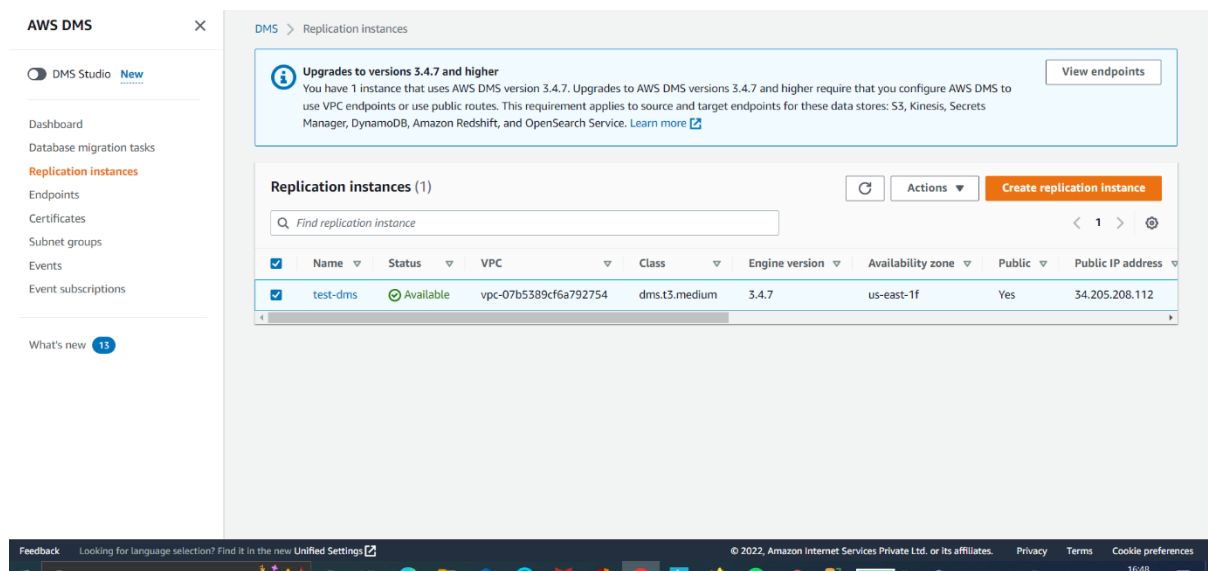
## STEP 6---INSTALLING MICROSOFT SQL



## STEP 7---ACCESSING RDS AND CREATING DATABASE



## STEP 8---CREATING REPLICATION SERVER IN DMS



## STEP 9---MODIFYING THE SECURITY GROUP

EC2 > Security Groups > sg-02c79025312ecce62 - default > Edit inbound rules

### Edit inbound rules [Info](#)

Inbound rules control the incoming traffic that's allowed to reach the instance.

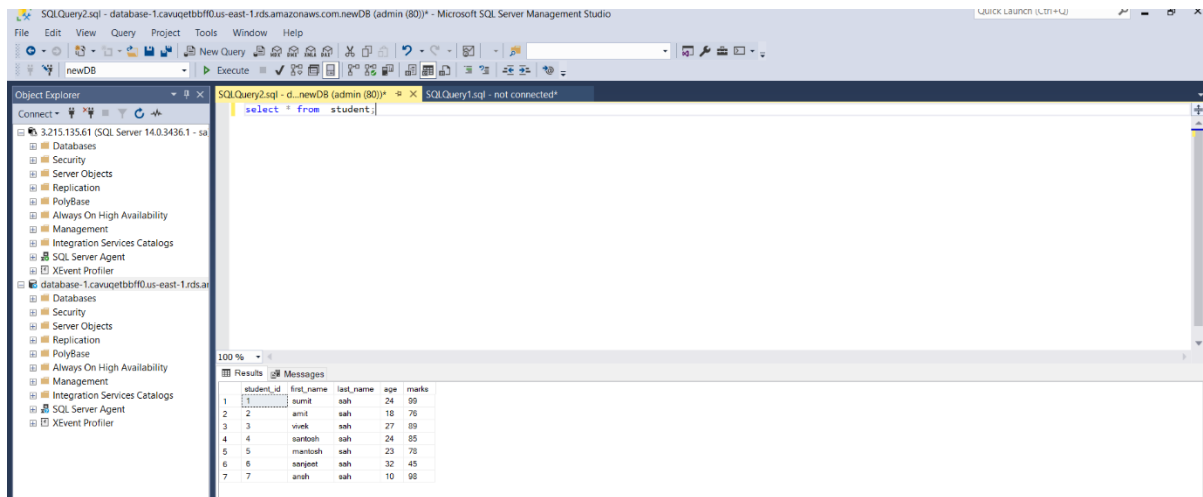
#### Inbound rules [Info](#)

Security group rule ID	Type <a href="#">Info</a>	Protocol <a href="#">Info</a>	Port range <a href="#">Info</a>	Source <a href="#">Info</a>	Description - optional <a href="#">Info</a>	
sg-02f70bd434dc1a31d	All traffic ▼	All	All	Custom ▼	<input type="text"/>	<input type="button" value="Delete"/>
-	MSSQL ▼	TCP	1433	Anywh... ▼	<input type="text"/>	<input type="button" value="Delete"/>

X

X

## STEP 10---DATABASE SUCCESSFULLY MIGRATED FROM SQL DATABASE TO RDS



**SUBMITTED BY-AKASH KUMAR DASH**