

First I had tried to import the schema directly from the adminer , in order to perform this I access the database with the provided database credentials and link.
Database credentials :

Host: afgdev.sniperai.com (172.17.0.2)

User : root

Password : jS5+iD8mM

review Review@2020

However the provided adminer link was not working so I set the cg production database adminer link in the development database server 40.120.37.29. To do this I allowed <https://capgemini.live.sniperai.com/adminer> public ip in the vm security group. After this I was able to access the database with the provided credentials.

But taking schema directly from the adminer and importing it on the dev server masterschema database through adminer did not work as expected.

So As a solution I tried to take the schema and triggers manually from the production server and import it on the dev server database.

To do this first launch the ec2 test1 instance in the ireland region and install mysql on the server.

After this allow the public or private ip of the server on the RDS cg database security pool.

After allowing this run the following script to export the schema and triggers on the test1 server.

Step 1 : generate schema

Sudo vi cgprodschema

Generate schema for specific database

```
HOST='-h 192.168.1.3'  
USER_NAME='-u root'  
PASSWORD='-p"c(T{pK!cn8gc)7{G2azCj5PZ6Lp"'  
OPTIONS='--single-transaction --set-gtid-purged=OFF --routines  
--no-create-info --no-data --no-create-db --skip-opt'  
DATABASE_NAME='infosys'  
DATABASE="--databases $DATABASE_NAME"  
OUTPUT="--result-file=database_schema_triggers_$DATABASE_NAME.sql  
"  
  
echo "Generating Triggers and Funtions backup for $DATABASE_NAME"  
echo "mysqldump $HOST $USER_NAME $PASSWORD $OPTIONS  
$DATABASE $OUTPUT"  
mysqldump $HOST $USER_NAME $PASSWORD $OPTIONS $DATABASE  
$OUTPUT
```

Step 2 : sudo sh cgprodschema

Step 3 : generate triggers

Sudo vi cgtriggers

```
HOST='-h cg-database.clys4cuswblc.eu-west-1.rds.amazonaws.com'  
USER_NAME='-u root'  
PASSWORD='-p"c(T{pK!cn8gc)7{G2azCj5PZ6Lp"'  
OPTIONS='--single-transaction --set-gtid-purged=OFF --no-data  
--skip-triggers'  
DATABASE_NAME='cgproddb'  
DATABASE="--databases $DATABASE_NAME"  
OUTPUT="--result-file=database_schema_$DATABASE_NAME.sql"  
echo "Generating schema backup for $DATABASE_NAME"
```

```
echo "mysqldump $HOST $USER_NAME $PASSWORD $OPTIONS  
$DATABASE $OUTPUT"  
mysqldump $HOST $USER_NAME $PASSWORD $OPTIONS $DATABASE  
$OUTPUT
```

Step 4: sudo sh cgtriggers

**Step 5 : make a changes in schema and triggers sql files as per requirement
For example : change the database name from cgproddb to masterschema.**

After changing the schema and triggers on the test1 server transfer the sql files on the dev server

```
sudo rsync -rtP database_schema_triggers_cgproddb.sql -e "ssh -i  
/home/ubuntu/id_rsa" ubuntu@40.120.37.29:/home/ubuntu/cgdatadatabase
```

To check the file size `du -sh file_path`

```
sudo rsync -rtP html_injazatprod.conf -e "ssh -i /home/ubuntu/id_rsa"  
ubuntu@40.120.37.29:/home/ubuntu/injazatprod
```

Step 6 : Restore the schema and triggers on masterschema , however mysql was not accessible from the terminal using the mysql -u root -p jS5+iD8mM.

To resolve this I shared this concerned with yogesh sir and he has provided the following command to access the sql database and import.

```
sudo su
```

- 1) docker ps -a
- 2) copy mysql container id

3) docker exec -it <container_id> bash

docker exec -it 1971fde2ba9a bash

Step 7 : After login to mysql container create a folder where transfer the schema and triggers file from the host to docker mysql container

mkdir cgdatabase

Step 8 : after creating a dir in docker mysql container copy the schema and triggers mysql files on the created dir in docker :

docker cp <containerId>:/file/path/within/container /host/path/target
(provided by yogesh)

docker cp /home/ubuntu/cgdatadabase/ 1971fde2ba9a:cgdatabase/ (altered command as per requirement)

Step 9 : after successfully transferring the schema and triggers sql file on the container cgdatabase container , dump both on the masterschema database .

mysql -u root -p < database_schema_cgproddb2.sql

mysql -u root -p < database_schema_triggers_cgproddb2.sql