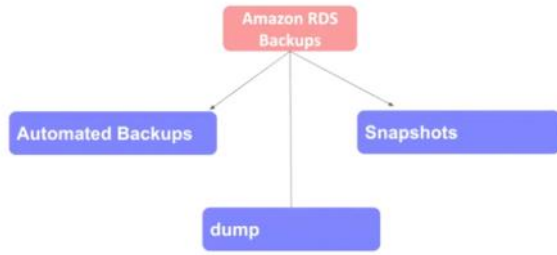


# Database from Snapshot

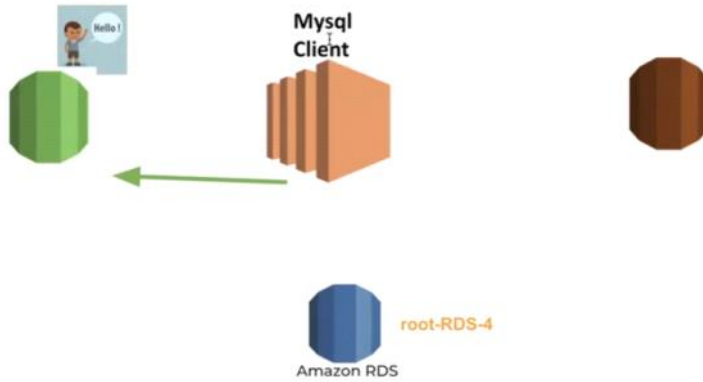
Thursday, August 8, 2024 10:04 AM

## Part 2 - Taking Manual snapshot



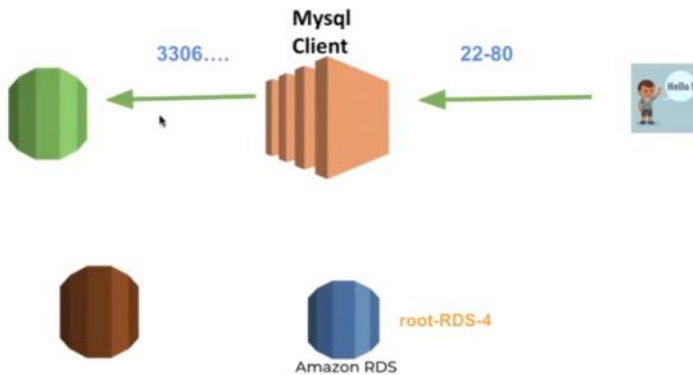
Dump mevzuu IT dunyasinda siklikla karsilastigimiz bir konu. Normalde zaten databse kısmi bizim kontrolumuzde olan bir sey degil ama konuyahakim olmak icin bunlari ogreniyoruz. Snopshot dersinin

## Part 1 - Installing MariaDB Client and connect to RDS for Manipulating



Bizim kuracagimiz ec2 mysql client ec2 su olacak. Mysql workbench ayni zamanda mysql client. Client aslında bir ulak gibi. Database ozelliklerini barındırmıyor. Sadece datayi iletme, tasima, sorgulatma gibi seylere cevap verir. Ulak gibi ayni karar verme yetisi yok. Bizde client uzerinden databse baglanacagiz ve islem yapacagiz. Mysql client, mysql databse, serverin eksik halidir. Tam donanimli degildir. Bazi depolama unsurlari eksiktir mesela. Bir bilgisayarda bir mysql yuklu ise o ayni zamanda mysql clienttir. Mysql l> mysql client.

## Part 1 - Installing MariaDB Client and connect to RDS for Manipulating



22-80 ile baglanip, outbound all traffic oldugu icin cikisi istedigim porttan yapabilirim.

```
1 # Hands-on DB-03 : Restoring RDS DB Instance from Manual Snapshot and Point in Time
33 ## Part 1 - Installing MariaDB Client on Ubuntu Instance and Setting up Database on RDS Instance Remotely
35 ### STEP 0 - Installing MariaDB-client on Ubuntu Instance
51
52 - Update instance.
53
54 ```bash
55 sudo apt update -y && sudo apt upgrade -y
56
57
58 Note: If you see a warning about restarting use this command: sudo reboot now, after using this command
59 try to connect to instance with ssh
60 ```
61
```

```
Get:33 http://us-east-1.ec2.archive.ubuntu.com/ubuntu noble-updates/universe amd64 c-n-f Metadata [12.4 kB]
Get:34 http://us-east-1.ec2.archive.ubuntu.com/ubuntu noble-updates/restricted amd64 Packages [200 kB]
Get:35 http://us-east-1.ec2.archive.ubuntu.com/ubuntu noble-updates/restricted Translation-en [40.7 kB]
Get:36 http://us-east-1.ec2.archive.ubuntu.com/ubuntu noble-updates/restricted amd64 c-n-f Metadata [416 B]
Get:37 http://us-east-1.ec2.archive.ubuntu.com/ubuntu noble-updates/multiverse amd64 Packages [14.1 kB]
Get:38 http://us-east-1.ec2.archive.ubuntu.com/ubuntu noble-updates/multiverse Translation-en [3600 B]
Get:39 http://us-east-1.ec2.archive.ubuntu.com/ubuntu noble-updates/multiverse amd64 Components [212 B]
Get:40 http://us-east-1.ec2.archive.ubuntu.com/ubuntu noble-updates/multiverse amd64 c-n-f Metadata [532 B]
Get:41 http://us-east-1.ec2.archive.ubuntu.com/ubuntu noble-backports/main amd64 Components [200 B]
Get:42 http://us-east-1.ec2.archive.ubuntu.com/ubuntu noble-backports/main amd64 c-n-f Metadata [112 B]
Get:43 http://us-east-1.ec2.archive.ubuntu.com/ubuntu noble-backports/universe amd64 Packages [10.3 kB]
Get:44 http://us-east-1.ec2.archive.ubuntu.com/ubuntu noble-backports/universe Translation-en [10.5 kB]
Get:45 http://us-east-1.ec2.archive.ubuntu.com/ubuntu noble-backports/universe amd64 Components [17.6 kB]
Get:46 http://us-east-1.ec2.archive.ubuntu.com/ubuntu noble-backports/universe amd64 c-n-f Metadata [1016 B]
Get:47 http://us-east-1.ec2.archive.ubuntu.com/ubuntu noble-backports/restricted amd64 Components [216 B]
Get:48 http://us-east-1.ec2.archive.ubuntu.com/ubuntu noble-backports/restricted amd64 c-n-f Metadata [116 B]
Get:49 http://us-east-1.ec2.archive.ubuntu.com/ubuntu noble-backports/multiverse amd64 Components [212 B]
Get:50 http://us-east-1.ec2.archive.ubuntu.com/ubuntu noble-backports/multiverse amd64 c-n-f Metadata [116 B]
92% [5 Packages store 0 B]
```

Sudo apt update -y ile ubuntu'nun kendi icindeki fikristini guncelliyoruz.  
Sudo apt upgrade -y ile de serverin kendisini guncelliyoruz.  
Ubuntu'da islemler daga gecikmeli.



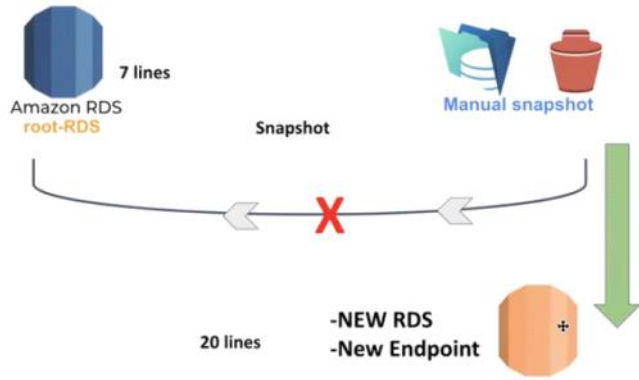
Mariadb mysql uzzerinden uretilmis. O yuzden datamiza mariadb clienti yukledigimiz halde mysql calistirabiliyoruz.

### Part 3 - Recovering RDS DB Instance from Manual snapshot-

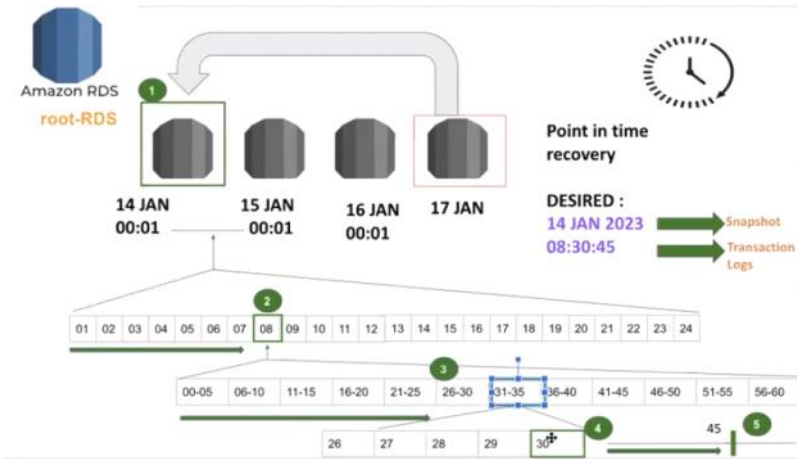


Burda once manuel snapshot aliyoruz  
Sonra bazi datalari siliyoruz  
Sonra aldigimiz snapshotlarla eski verilere ulasmaya calisacagiz.

### Part 3 - Recovering RDS DB Instance from Manual snapshot- Recover

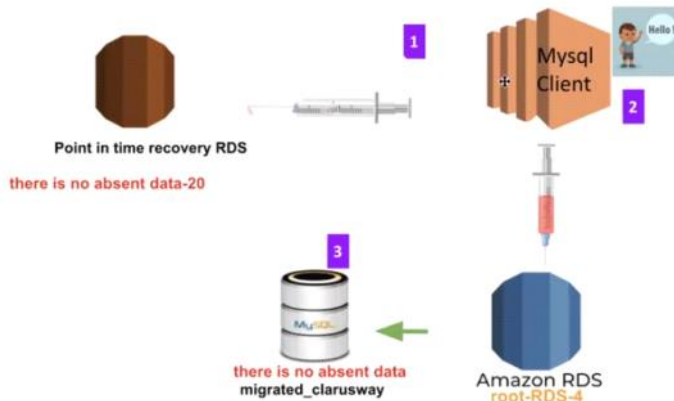


Root RDS ayrı bir instance olarak kalacak. Biz manuel snapshottan yeni bir database olarak canlandıracağız.  
Hali hazırda var olan databasein üzerine yazmaya çalışırsak database cevap vermez. O yüzden manuel snapshot üzerinden yenisini canlandırıyoruz. Ve eni endpointi kullanıyoruz.



Automated backup bir film seridi gibi saniye saniye snapshotunu alıyor. Bir fotoğraf alıyor ve saniye saniye bilgileri üzerine işliyor. Donmek istediginizde istediginiz ana en yakın bilgilere ulaşabiliyorsunuz.  
Manuel oyle degil, belirlenmiş saatte alıyor ve donmek istediginizde sadece o ana donebiliyorsunuz. Bir fotograf karesi gibi.

### Part 5 - Dumping and Migrating Database



```
01 mysqldump -h osvaldo-pointin-time.cbamzptkrzf.us-east-1.rds.amazonaws.com -u admin -pP123456789 clarusway >
02 backup.sql
03
04 - Show 'backup.sql' file with 'ls' command.
05
06 - Restore the backup of 'clarusway' db on to the MySQL DB Server ('root-RDS' instance) using 'backup.sql' file
07
08 ''bash
09
40 mysql -h [root-RDS endpoint] -u admin -p clarusway < backup.sql
41
```

Kahverengi databaseden alip root rdse enjekte ettik datayi.