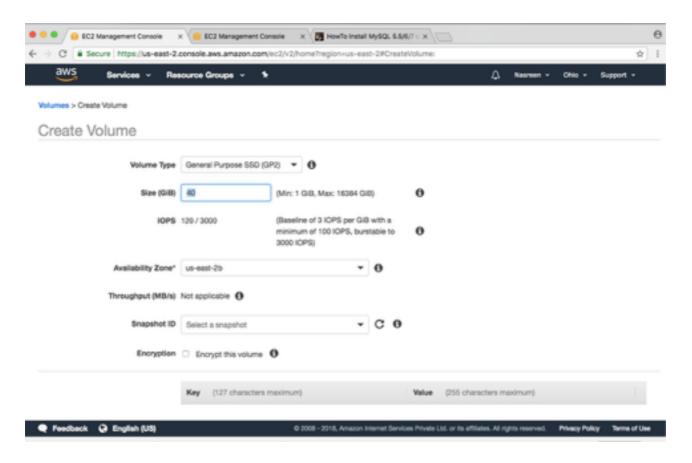
# Mysql migration of BigDB from 5.5 to 5.7 on CentOS 7

Thursday, 26 July 2018 4:23 PM

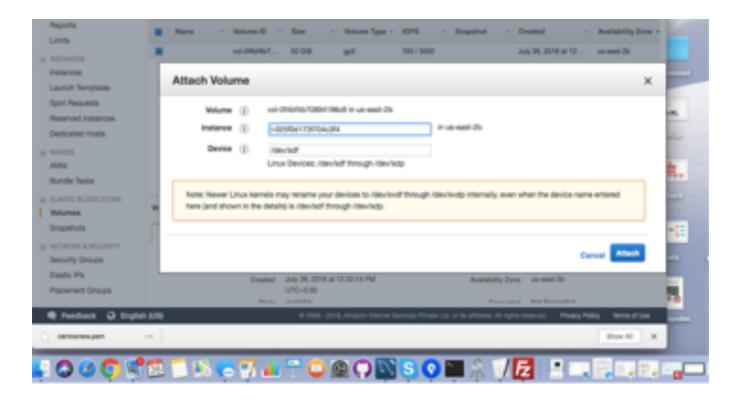
TO MIGRATE A HUGE DB THE CREATED INSTANCE HAS SHORTAGE OF STORAGE. SO LET'S CREATE A NEW VOLUME FOR THE INSTANCE USING THE FOLLOWING STEPS

Click on "Create volume" menu and make changes in the requirements as needed. Here I've created a volume with the size 40G, then click on "createvolume" button.

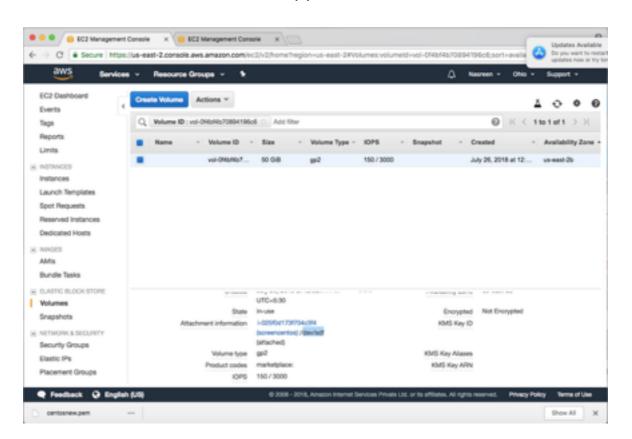


Attach the volume by right clicking on the running volume. And select the instance availability zone, then the instance that needs to be attached.





Go to the attached volume and copy the location



#### \$ lsblk

NAME MAJ:MIN RM SIZE RO TYPE MOUNTPOINT xvda 202:0 0 8G 0 disk `-xvda1 202:1 0 8G 0 part / xvdf 202:80 0 50G 0 disk

#### \$ sudo mkfs -t ext3 /dev/xvdf

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

3276800 inodes, 13107200 blocks

655360 blocks (5.00%) reserved for the super user

First data block=0

Maximum filesystem blocks=4294967296

400 block groups

32768 blocks per group, 32768 fragments per group

8192 inodes per group

Superblock backups stored on blocks:

32768, 98304, 163840, 229376, 294912, 819200, 884736, 1605632, 2654208,

4096000, 7962624, 11239424

Allocating group tables: done Writing inode tables: done

Creating journal (32768 blocks): done

Writing superblocks and filesystem accounting information: done

#### \$ sudo su

Create a new directory

# mkdir /new

Now mount the directory to the drive

# sudo mount /dev/xvdf /new

#### # df -h

Filesystem	Size	Used	Avail	Use%	Mounted on
/dev/xvda1	8.0G	3.4G	4.6G	43%	/
devtmpfs	474M	0	474M	0%	/dev
tmpfs	496M	0	496M	0%	/dev/shm
tmpfs	496M	13M	483M	3%	/run
tmpfs	496M	0	496M	0%	/sys/fs/cgroup
tmpfs	100M	0	100M	0%	/run/user/1000
/dev/xvdf	50G	52M	47G	1%	/new

```
# cp -R /var/lib/mysql /new
# cd /var/lib
#cp -R /var/lib/mysql /new
# cd /var/lib
# ls
alternatives dhclient
                         machines
                                        nfs
                                                   rpm
                                                              systemd
authconfig
                                        os-prober rpm-state tuned
              games
                         misc
chrony
              gssproxy
                                        polkit-1
                         mysql
                                                   rsyslog
                                                              yum
cloud
              initramfs mysql-files
                                        postfix
                                                   selinux
dbus
              logrotate mysql-keyring
                                       rpcbind
                                                   stateless
# mv mysql mysql-back
# cd /new
# ls
lost+found mysql
# chown -R mysql:mysql /new/mysql/
# chown -R mysql:mysql /new/mysql
# ln -s /new/mysql/ /var/lib/
# chown -R mysql:mysql /var/lib/mysql
# cd ..
# cd /var/lib
# 15
alternatives dhclient
                         machines
                                      mysql-keyring rpcbind
                                                                stateless
authconfig
              games
                         misc
                                      nfs
                                                                systemd
                                                     rpm
chrony
                         mysql
                                      os-prober
                                                     rpm-state
                                                                tuned
              gssproxy
cloud
                                      polkit-1
              initramfs
                         mysql-back
                                                     rsyslog
                                                                vum
dbus
              logrotate
                         mysql-files postfix
                                                     selinux
[root@ip-172-31-31-16 lib]# ll
total 8
                                55 Jun 5 14:09 alternatives
drwxr-xr-x. 2 root
                      root
                                18 Jun 5 14:12 authconfig
drwx---- 3 root
                      root
drwxr-xr-x. 2 chrony
                                19 Jul 26 06:33 chrony
                      chrony
                               105 Jul 26 05:27 cloud
drwxr-xr-x. 8 root
                      root
drwxr-xr-x. 2 root
                                 6 Apr 11 07:23 dbus
                      root
                                34 Jul 26 05:27 dhclient
drwxr-xr-x. 2 root
                      root
                                 6 Apr 11 04:59 games
drwxr-xr-x. 2 root
                      root
                                55 Jul 26 05:27 gssproxy
drwxr-xr-x. 4 root
                      root
                                 6 Apr 11 07:30 initramfs
drwxr-xr-x. 2 root
                      root
                                30 Jul 26 06:31 logrotate
drwxr-xr-x. 2 root
                      root
drwx---- 2 root
                                 6 Jun 5 14:08 machines
                      root
                                37 Jul 26 05:27 misc
drwxr-xr-x. 2 root
                      root
                                11 Jul 26 07:30 mysql -> /new/mysql/
lrwxrwxrwx. 1 mysql
                      mysql
```

```
arwxr-x--x. o mysqı
                     mysqı
                             4090 JUL 20 05:55 MySqL-Dack
drwxr-x--- 2 mysql
                     mysql
                                6 Jul 26 05:44 mysql-files
drwxr-x--- 2 mysql
                                 6 Mar 4 14:06 mysql-keyring
                     mvsal
drwxr-xr-x. 5 root root
                                      5 14:09 nfs
                               105 Jun
drwxr-xr-x. 2 root
                      root
                                6 Nov 6 2016 os-prober
                               28 Jun 5 14:08 polkit-1
drwxr-x--- 3 root
                      polkitd
drwx---- 2 postfix root
                               25 Jul 26 05:27 postfix
                                6 Apr 11 05:13 rpcbind
drwx---- 2 rpc rpc
drwxr-xr-x 2 root root drwxr-xr-x 2 root root drwx---- 2 root root
                             4096 Jul 26 05:35 rpm
                                6 Apr 11 04:59 rpm-state
                               29 Jul 26 07:17 rsyslog
drwxr-xr-x. 2 root
                                6 Apr 11 16:10 selinux
                      root
                               35 Jun 5 14:08 stateless
drwxr-xr-x. 4 root
                     root
drwxr-xr-x. 4 root
                    root
                               56 Jun 5 14:08 systemd
drwxr-xr-x. 2 root
                                6 Apr 11 02:57 tuned
                      root
drwxr-xr-x. 6 root root
                               80 Jul 26 05:43 yum
```

#### # service mysqld stop

Redirecting to /bin/systemctl stop mysqld.service

In centOS 7 the selinux enforce has to disabled to avoid server start issues

### # vi /etc/sysconfig/selinux

```
# This file controls the state of SELinux on the system.
# SELINUX= can take one of these three values:
# enforcing - SELinux security policy is enforced.
# permissive - SELinux prints warnings instead of enforcing.
# disabled - No SELinux policy is loaded.

SELINUX=disabled
# SELINUXTYPE= can take one of three two values:
# targeted - Targeted processes are protected,
# minimum - Modification of targeted policy. Only selected processes are protected.
# mls - Multi Level Security protection.

SELINUXTYPE=targeted

"/etc/sysconfig/selinux" 14L, 545C
```

The give command as follows:

# setenforce 0

# sestatus

SELinux status:

enabled

SELinuxfs mount: /sys/fs/selinux SELinux root directory: /etc/selinux Loaded policy name: targeted Current mode: permissive Mode from config file: disabled Policy MLS status: enabled Policy deny\_unknown status: allowed Max kernel policy version: 31

Then make changes in mysql config to switchoff the strict mode and change the linked datadirectory in it.

#### # vi /etc/my.cnf

```
    O Downloads — root@ip-172-31-31-16:/home/centos — ssh -i centosnew.pem c...

For advice on how to change settings please see
# http://dev.mysql.com/doc/refman/5.7/en/server-configuration-defaults.html
# Remove leading # and set to the amount of RAM for the most important data
# cache in MySQL. Start at 70% of total RAM for dedicated server, else 10%.
# innodb_buffer_pool_size = 128M
# Remove leading # to turn on a very important data integrity option: logging
# changes to the binary log between backups.
# log_bin
# Remove leading # to set options mainly useful for reporting servers.
# The server defaults are faster for transactions and fast SELECTs.
# Adjust sizes as needed, experiment to find the optimal values.
# join_buffer_size = 128M
# sort_buffer_size = 2M
# read_rnd_buffer_size = 2M
datadir=/new/mysql
socket=/var/lib/mysql/mysql.sock
innodb_strict_mode=off
# Disabling symbolic-links is recommended to prevent assorted security risks
"/etc/my.cnf" 27L, 978C
```

#### # systemctl restart mysqld.service

## # systemctl status mysqld.service

Process: 11996 ExecStartPre=/usr/bin/mysqld\_pre\_systemd (code=exited,

status=0/SUCCESS)

Main PID: 12020 (mysqld)

CGroup: /system.slice/mysqld.service

└-12020 /usr/sbin/mysqld --daemonize --pid-

file=/var/run/mysqld/my...

Jul 26 07:37:17 ip-172-31-31-16.us-east-2.compute.internal systemd[1]:

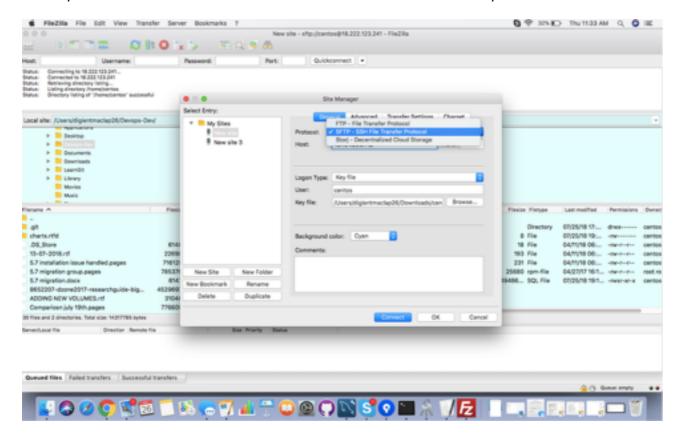
Starti...

Jul 26 07:37:19 ip-172-31-31-16.us-east-2.compute.internal systemd[1]:

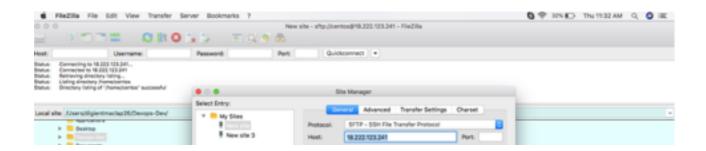
Starte...

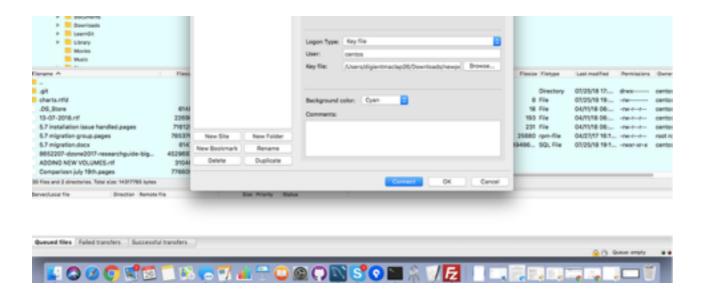
Hint: Some lines were ellipsized, use -l to show in full.

Now upload the db into the server in file zilla to import

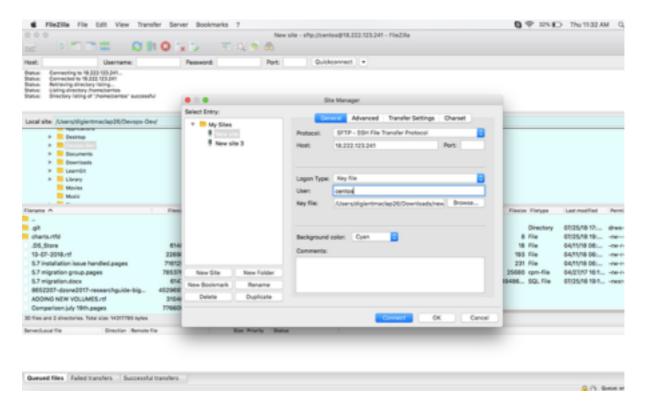


#### Connect the host



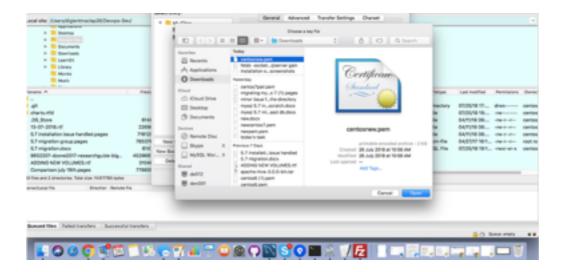


# Make the following changes

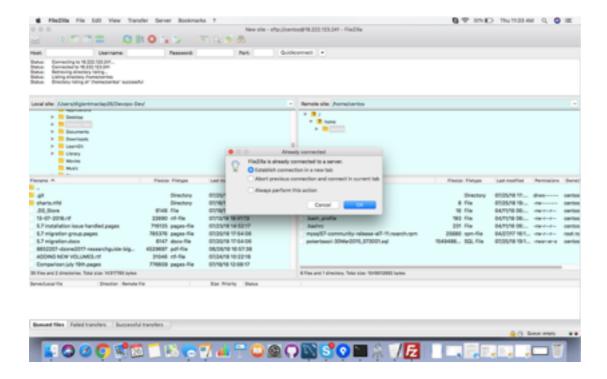


# Attach the accesskey- pem file.

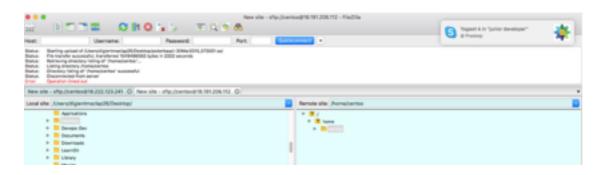


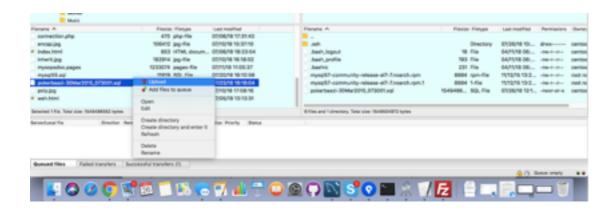


## Click on Ok button



# Upload the db from desktop- where you have stored it





After uploading,

Migrate the db to the drive using the following command

```
# mysql -uroot -p newmig < /home/centos/pokerbaazi-30Mar2015_073001.sql</pre>
```

# exit

\$ mysql -uroot -p

Finally view the migrated db and its table in mysql