# ASSIGNMENT: Elastic Block Store - EBS

Posted Nov 3

AssignedEstigfend

1. Create an EBS volume of 1GB size using gp2 type in us-east-1a AZ with a name tag "1gb-gp2-1a"  
  
2. Create an EBS Volume of 2GB size using gp3 type in us-east-1b AZ with a name tag "2gb-gp3-1b"  
  
3. Create an EBS volume of io1 type with 4GB size in us-east-1c AZ with a name tag of "4gb-io1-1c"  
  
4. Create an EBS volume of io2 type with 5GB size in us-east-1a AZ with a name tag of "5gb-io2-1a"  
  
5. Create an EBS volume of sc1 with 125GB size in us-east-1b AZ with a name tag of "125gb-sc1-1b"  
  
6. Create an EBS volume of st1 type with 130GB size in us-east-1e AZ with a name tag of "130gb-st1-1e"  
  
7. Create an EBS volume of standard type with 3GB size in us-east-1f AZ with a name tag of "3gb-std-1f"  
  
8. Create 3 EC2 instances with windows Operating system as mentioned below  
  
    SERVER1-A    -->     us-east-1a  
    SERVER2-A    -->    us-east-1a  
    SERVER3-B    -->     us-east-1b  
  
9. Attach the EBS volume "1gb-gp2-1a" to the EC2 instance "SERVER1-A"  
  
10. Login to the SERVER1-A and observe the EBS volumes ( 30GB & 1GB)  
  
11. Make the EBS Volume attached to SERVER1-A as Online & Initialize. Also Create a simple volume with NTFS File System  
  
12. Create 10 Files into the D:\ Drive (1gb-gp2-1a)  
  
13. Attach the same volume "1gb-gp2-1a" to the EC2 instance SERVER2-A, without detaching from SERVER1-A (testing multi-attach)**NOT POSSIBLE**  
  
14. Detach the Volume "1gb-gp2-1a" from SERVER1-A and attach it to the Instance "SERVER2-A. Observe that no data Loss.

EBS - Snapshot

1. Create a Snapshot "snapshotof1gbin1a"  from the EBS volume "1gb-gp2-1a"  
  
2. Create a new EBS volume "1gb-gp2-1b" in us-east-1b AZ using the abve snapshot "snapshotof1gbin1a"  
  
3. attach the EBS volume "1gb-gp2-1b" with the EC2 instance SERVER3-B  
  
4. Login to SERVER3-B and observe the data from D:\ Drive  
  
5. Copy the snapshot from N.Virginia to Mumbai region  
  
6. Create a new EBS volume in 1a AZ of the mumbai region using the copied snapshot.  
  
7. Attach the new volume to an instance in Mumbai 1a AZ and observe the data  
  
Automated Snapshot:  
  
  
8. Create a Life Cycle rule to capture automated snapshots of all EBS volumes having a Tag "Backup:Yes" as per below requirement  
  
    - Snapshot to be created everyday morning 6:30 AM IST  
    - If the snapshot is more than 7 days older, it must be deleted.  
  
a) Assign a tag "Backup:Yes" to atleast 4 EBS Volumes  
b) Create life cycle rule as per the above requirement

EBS-VolumeManagement

Posted Nov 3

AssignedEstigfend

1. Increase the size of the exisitng 1GB Volume (1gb-gp2-1a) to 3GB by adding 2 more GB.  
  
    a) increase the size of the volume from 1GB to 3 GB  
    b) Extend the 1GB volume by extra 2GB from the diskmanagemnt from the SERVER1-A  
  
  
2. Increase the size of the same EBS Volume (1gb-gp2-1a) upto 5GB  
  
3. Modify the type of the EBS Volume 5GB (5gb-io2-1a) from IO2 to ST1

EBS-Encryption

1.  Create an EBS volume and enable Encryption at the time of Creation.  
  
2. Enable Encryption on any Existing EBS Volume -- (NOT POSSIBLE)  
  
3. Can we disable encryption on EBS Volume?  -- (NOT POSSIBLE)  
  
4. Create a snapshot of any encrypted EBS volume and observe that the snapshot is encrypted or not  
  
  
5. Create an EBS volume from the encrypted snapshot  
  
    a) Disable the encryption on new Volume  -- Can't be disabled.  
    b) Enable the Encryption on new Volume  -- Mandatory  
  
6. Create a snaphot from Non-Encrypted EBS Volume, and observe the encryption status of the snaphot.  
  
7. Create a new EBS Volume using Un-Encrypted Snapshot and observe the following  
  
    a) Enable Encryption while creating the Volume   -- POSSIBLE  
    b) Disable Encryption while creating the Volume -- POSSIBLE