How to mount extra EBS volume and EFS to aws Ec2 amzon linux 2 machine

To mount an extra EBS volume to an Amazon Linux 2 EC2 instance, you can follow these steps:

1. Create an EBS volume in the same Availability Zone as your EC2 instance. Note the ID of the volume.
2. Attach the EBS volume to your EC2 instance using the AWS Management Console or the AWS CLI. Note the device name (/dev/xvdf, for example) assigned to the volume when you attach it.
3. Connect to your EC2 instance using SSH.
4. Use the following command to create a file system on the EBS volume: (Note that you should replace /dev/xvdf with the device name assigned to your EBS volume when you attached it.)

```
sudo mkfs -t ext4 /dev/xvdf
```

5. Create a mount point directory for the EBS volume: (Note that you can choose any directory name you want.)

```
sudo mkdir /mnt/data
```

6. Mount the EBS volume to the mount point directory: (Note that you should replace /dev/xvdf with the device name assigned to your EBS volume when you attached it, and /mnt/data with the mount point directory you created in step 5.)

```
sudo mount /dev/xvdf /mnt/data
```

7. Verify that the EBS volume is mounted by running the following command:

```
df -h
```

You should see your EBS volume listed in the output.

To ensure that the EBS volume is mounted automatically every time the EC2 instance is started, you can add an entry to the /etc/fstab file. Here's an example of what the entry might look like:

```
/dev/xvdf /mnt/data ext4 defaults,nofail 0 2
```

Note that you should replace /dev/xvdf with the device name assigned to your EBS volume when you attached it, and /mnt/data with the mount point directory you created in step 5.

To mount an extra EFS file system to an Amazon Linux 2 EC2 instance, you can follow these steps:

1. Create an EFS file system in the same region as your EC2 instance.
2. Configure your security groups to allow inbound and outbound traffic on port 2049 (NFS) between your EC2 instance and the EFS file system.
3. Install the NFS client on your EC2 instance if it's not already installed. For example, on an Amazon Linux instance, you can install the NFS client with the following command:

```
sudo yum install -y nfs-utils
```

4. Create a directory on your EC2 instance where you want to mount the EFS file system. For example:

```
sudo mkdir /mnt/efs
```

5. When you mount a file system using an access point, the mount command includes the access-point-id and the tls mount option in addition to the regular mount options. An example is shown following.
   Eg - sudo mount -t efs -o tls,accesspoint=access-point-id file-system-id efs-mount-point
6. To automatically mount a file system using an access point, add the following line to the /etc/fstab file on the EC2 instance.
   file-system-id efs-mount-point efs _netdev,tls,accesspoint=access-point-id 0 0