**AWS ASSIGNMENT -1**

1. **How to access an instance if PEM file is lost?**

An ec2 instance can be accessed using another instance in same region and VPC by following steps:

* First, create a new instance by creating new access file, call it 'helper' instance with same region and VPC as of the lost pem file instance.
* Now stop the lost pem file instance. Remember not to terminate instance but to stop it.
* Go to EBS volumes, select the root volume of the lost pem file instance and detach.
* Now again select the detached volume and this time you have to attach this volume to helper instance which we created before. Since helper instance already has a root volume by default as /dev/sda1, the newly attached volume will be secondary (eg: /dev/sdf).
* Login to your helper instance with its pem file.
* Execute below commands:
  + # mount /dev/xvdf1 /mnt
  + # cp /root/.ssh/authorized\_keys /mnt/root/.ssh/
  + # umount /mnt
* Detach the secondary volume from helper instance.
* Again, attach the volume back to our recovery instance. Start the instance. Terminate the helper instance.