

Cloud Computing Lab 1 Report

PES1201800366

Aditeya Baral

1 Understanding and Creation of AWS EC2 VMs

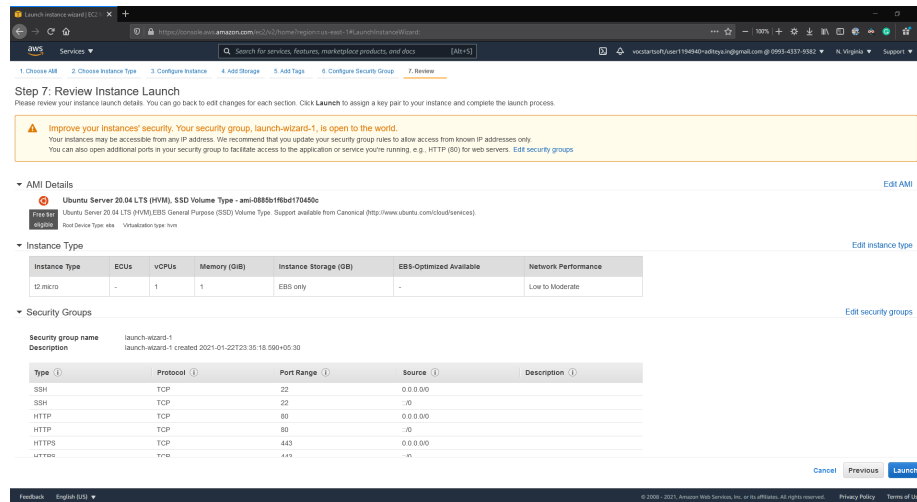


Figure 1: Creation of the EC2 Virtual Machine

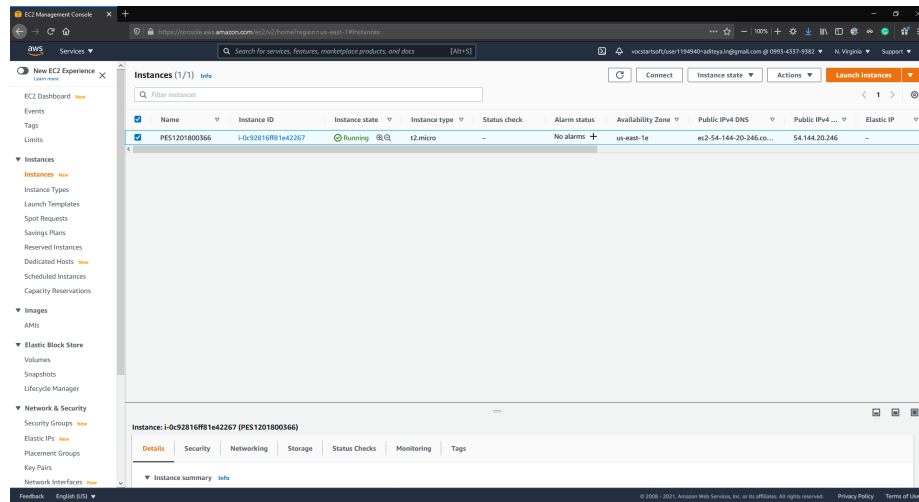


Figure 2: Virtual Machine in running state

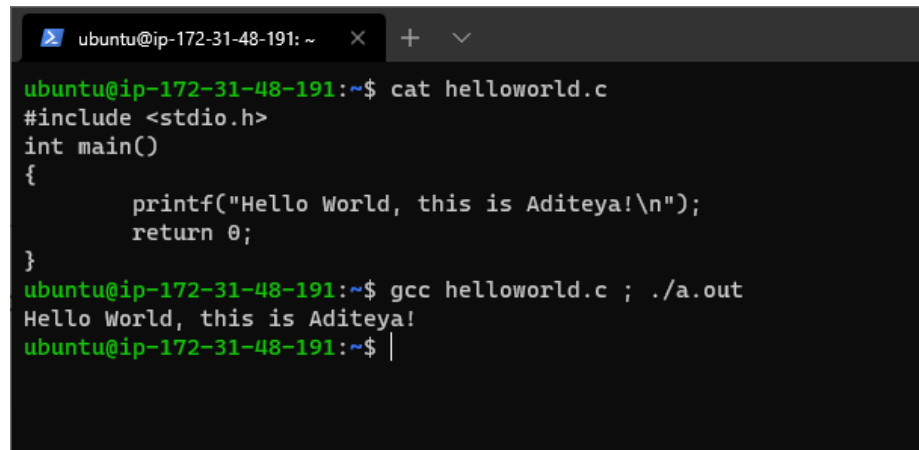


Figure 3: Execution of helloworld.c on Virtual Machine

2 Understanding and Creation of EBS Volumes

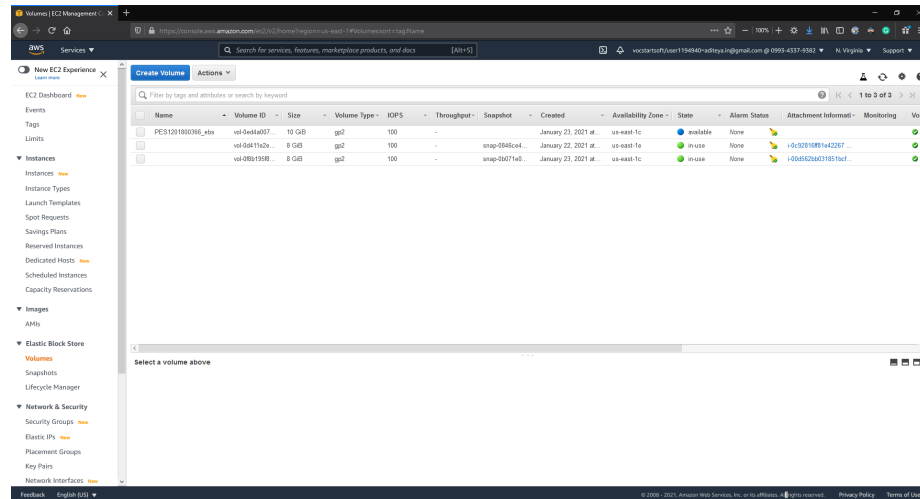


Figure 4: Creation of an EBS Volume

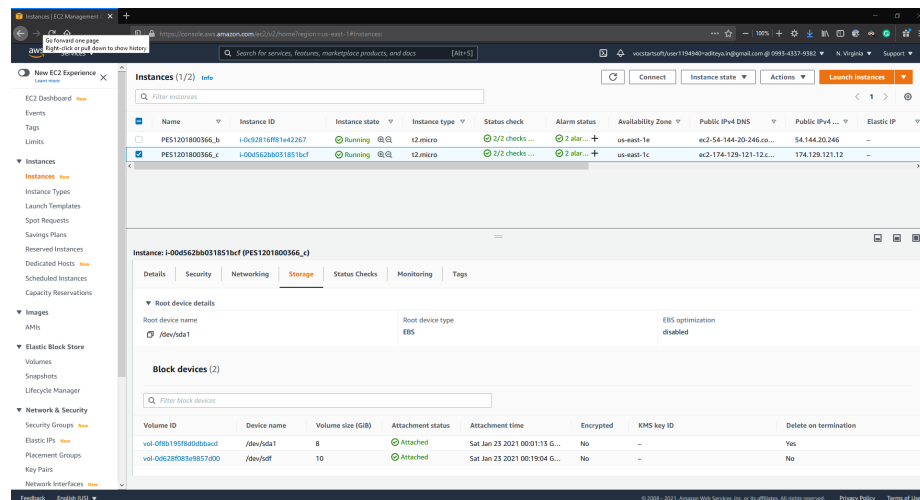


Figure 5: Attaching EBS Volume to Virtual Machine

```
ubuntu@ip-172-31-89-196: ~  
ubuntu@ip-172-31-89-196:~$ sudo mount /dev/xvdf /mnt/data-store/  
ubuntu@ip-172-31-89-196:~$ sudo df -h  
Filesystem      Size  Used Avail Use% Mounted on  
udev            476M   0    476M   0% /dev  
tmpfs           98M   772K   98M    1% /run  
/dev/xvda1      7.7G  1.2G   6.6G   15% /  
tmpfs           490M   0    490M   0% /dev/shm  
tmpfs           5.0M   0     5.0M   0% /run/lock  
tmpfs           490M   0    490M   0% /sys/fs/cgroup  
/dev/loop0      98M   98M     0 100% /snap/core/10185  
/dev/loop1      29M   29M     0 100% /snap/amazon-ssm-agent/2012  
tmpfs           98M   0     98M   0% /run/user/1000  
/dev/xvdf       9.8G   23M   9.3G    1% /mnt/data-store  
ubuntu@ip-172-31-89-196:~$
```

Figure 6: Mounting EBS Volume on Virtual Machine

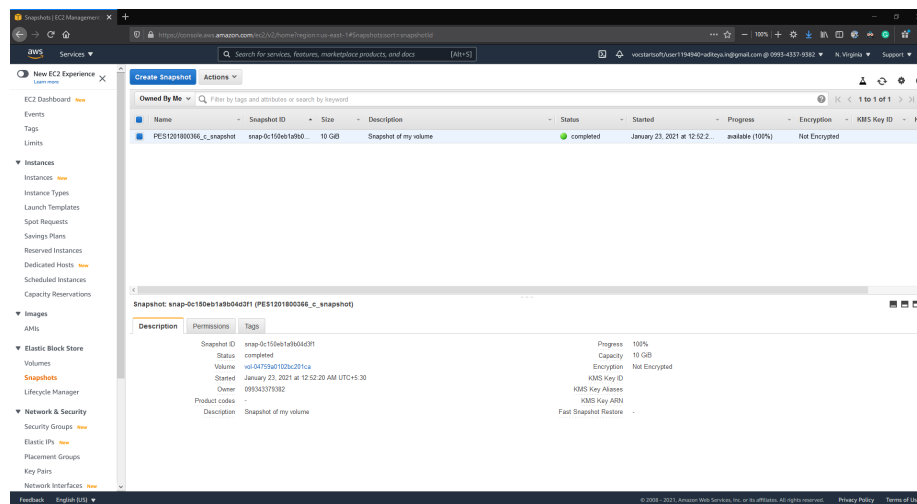


Figure 7: Creating a Snapshot of an EBS Volume

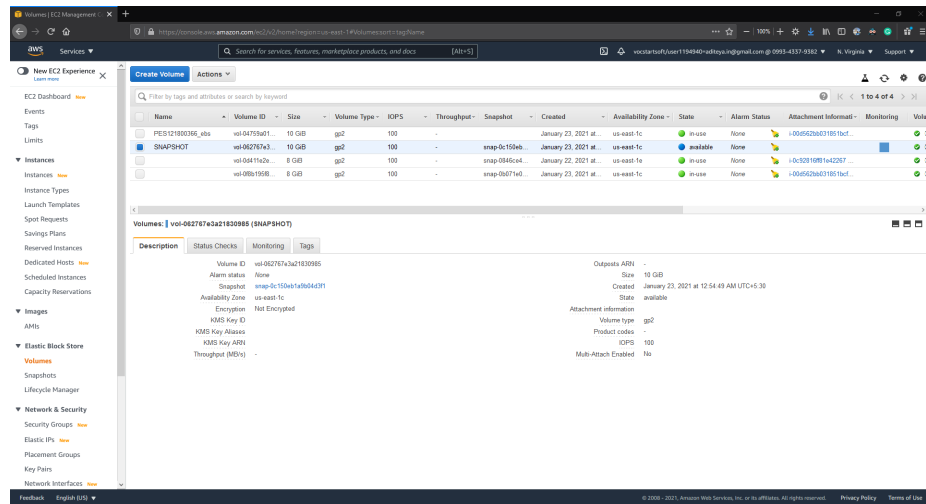


Figure 8: Creating EBS Volume from Snapshot

3 Object Storage using S3 Buckets

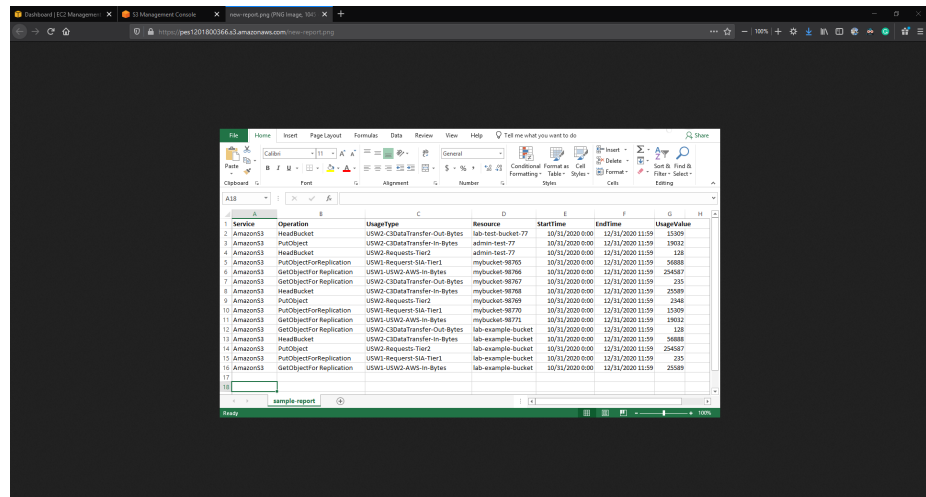


Figure 9: Accessing Bucket Object via public URL

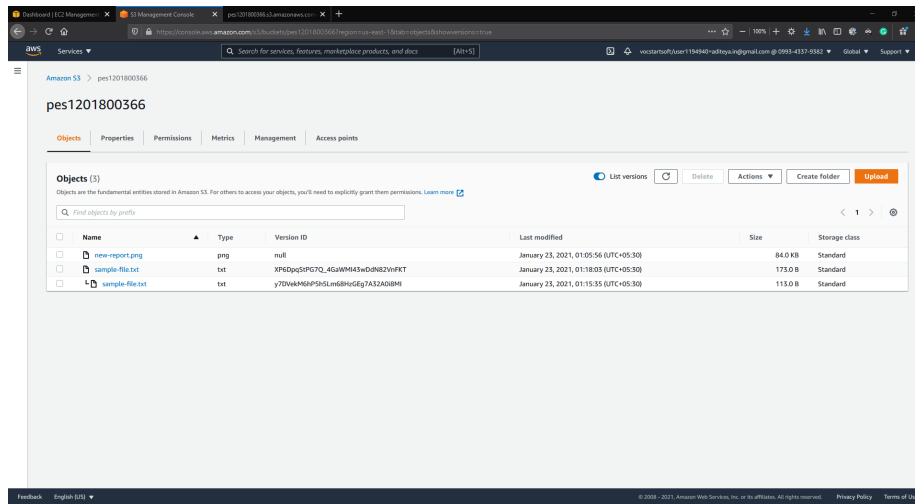


Figure 10: Versioning of Bucket Objects

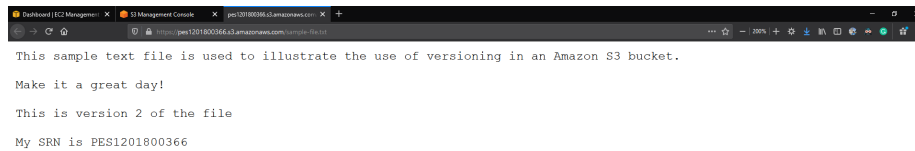


Figure 11: Accessing updated Bucket Object through versioning via public URL