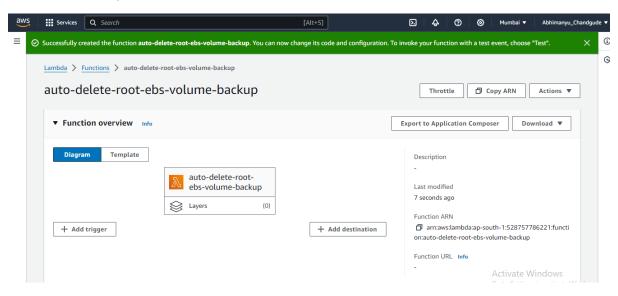
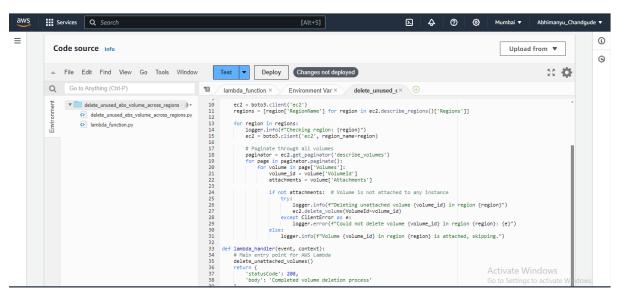
# 30<sup>th</sup> August 2024 - Lambda and Bootstrapping

### > Lambda

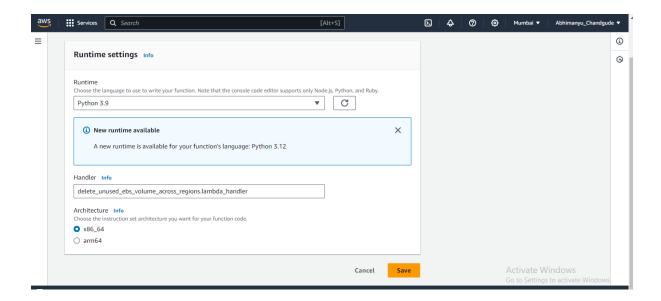
- A. Delete unused EBS Volume Across Regions
- 1. Create Lambda Function to delete the unused EBS volume across regions (auto-delete-root-ebs-volume-backup)



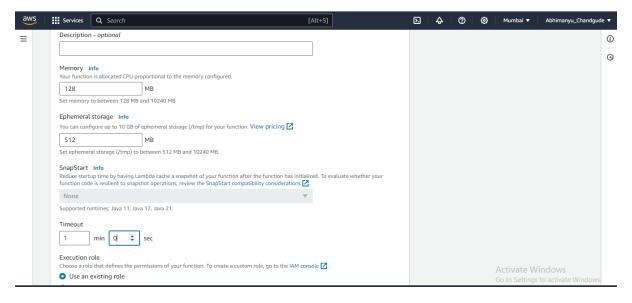
2. Create delete\_unused\_ebs\_volume\_across\_regions.py file

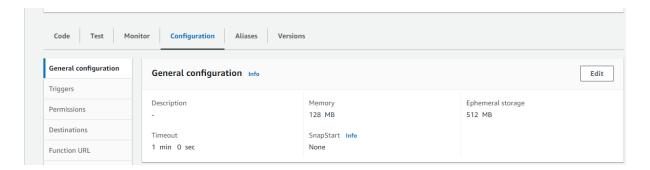


3. Update the Handler

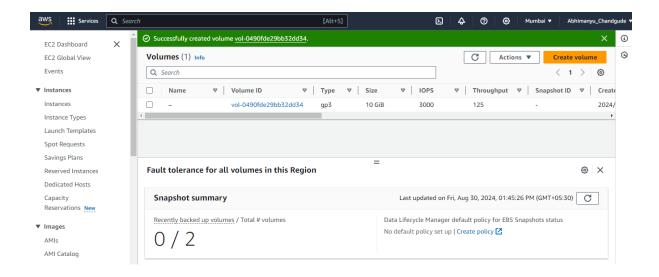


4. Change the timeout value for 3 seconds to 1 minute in Configuration settings

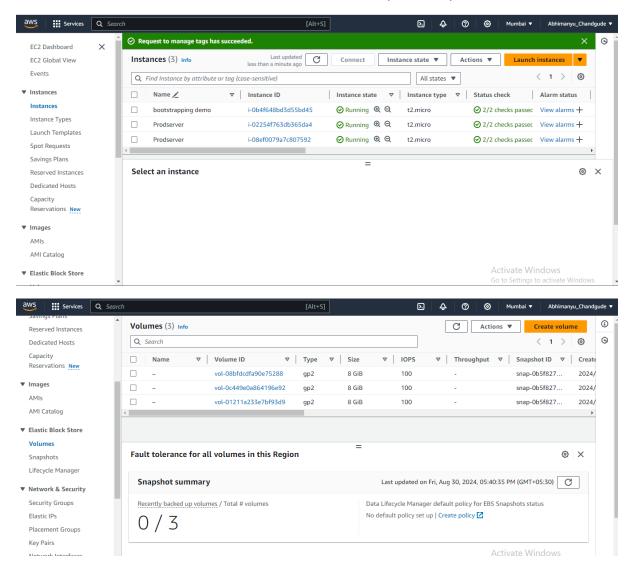




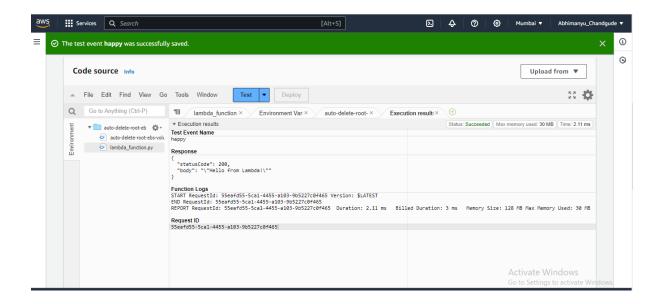
5. Create volume of 10 GB



6. Create an EC2 instance and check the number of volumes (2 or more)

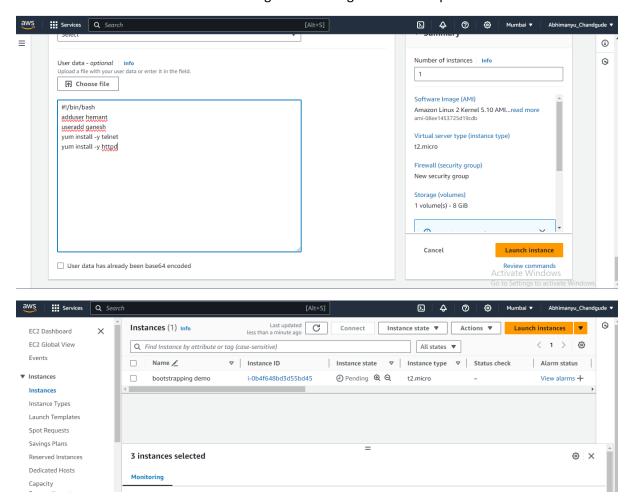


#### 7. Run the Lambda function manually



## **Bootstrapping**

1. Create a EC2 instance with stuffing and installing telnet and httpd



2. Check the memory, process running, etc.

```
top - 10:59:50 up 4 min, 1 user, load average: 0.01, 0.05, 0.02
Tasks: 100 total, 1 running, 52 sleeping, 0 stopped, 0 zombie
*Cpu(s): 0.3 us, 0.0 sy, 0.0 ni, 99.7 id, 0.0 wa, 0.0 hi, 0.0 si, 0.0 st
KLB Mem: 975536 total, 274644 free, 77080 used, 623812 buff/cache
KIB Swap: 0 total, 0 free, 0 used. 759756 avail Mem
                                                                                                                                                                                                                                                                                         SHR S & CPU & MEM

0 S 0.3 0.0

3928 S 0.0 0.6

0 S 0.0 0.0

0 I 0.0 0.0

0 S 0.0 0
   PID USER
                                                                                                              PR NI VIRT
                                                                                                                                                                                                                                                                                                    SHR S %CPU %MEM
                                                                                                                                                                                                                                              RES
                                                                                                                                                                                                                                                                                                                                                                                                                                                        TIME+
                                                                                                                                                                                                                                                                                                                                                                                                                                 TIME+ COMMAND
0:00.06 xfsaild/xvdal
0:02.04 systemd
0:00.00 kthreadd
0:00.00 rcu_gp
0:00.00 rcu_par_gp
0:00.00 kworker/0:0-cgr
0:00.00 kworker/0:0H-ev
0:00.00 kworker/u30:0-e
                                                                                                                                                                                                                                           5588
                                                                                                                                                                      123680
                            3 root
                         4 root
5 root
                                    root
root
                                                                                                                                                                                                                                                                                                                                                                                                                                 0:00.00 kworker/u30:0-e
0:00.00 mm_percpu_wq
0:00.00 rcu_tasks_trace
0:00.03 ksoftirqd/0
0:00.13 rcu_sched
0:00.00 migration/0
0:00.02 kworker/0:1-mm_
                            8 root
                    10 root
                   11 root
12 root
                                                                                                                                                                                                                                                                                                                                                                                                                                      0:00.00 cpuhp/0
0:00.00 kdevtmpfs
0:00.00 netns
                   15 root
17 root
                   17 root
18 root
                   19 root
21 root
                                                                                                                                                                                                                                                                                                                                                                                                                                      0:00.01 kworker/u30:1-e
0:00.01 kauditd
            299 root
300 root
                                                                                                                                                                                                                                                                                                                                                                                                                                    0:00.00 khungtaskd
0:00.00 oom_reaper
                                                                                                                                                                                                                                                                                                                                                                                                                                   0:00.00 writeback
0:00.00 kcompactd0
0:00.00 ksmd
0:00.00 khugepaged
0:00.00 kintegrityd
            301 root
303 root
           305 root
361 root
            363 root
364 root
                                                                                                                                                                                                                                                                                                                                                                                                                                      0:00.00 kblockd
0:00.00 blkcg punt bio
                                      root
root
                                                                                                                                                                                                                                                                                                                                                                                                                                      0:00.00 xen-balloon
0:00.00 tpm_dev_wq
0:00.00 md
                                                                                                                        0 -20
0 -20
```

#### 3. Check the created users

```
[root@ip-172-31-11-120 ~]#
[root@ip-172-31-11-120 ~]#
[root@ip-172-31-11-120 ~]#
[root@ip-172-31-11-120 ~]# id hemant
uid=1001(hemant) gid=1001(hemant) groups=1001(hemant)
[root@ip-172-31-11-120 ~]# id ganesh
uid=1002(ganesh) gid=1002(ganesh) groups=1002(ganesh)
[root@ip-172-31-11-120 ~]#
```

4. Check whether the package of telnet and httpd installed or not?

```
[root@ip-172-31-11-120 ~] # rpm -qa | grep telnet

telnet-0.17-65.amzn2.x86_64
[root@ip-172-31-11-120 ~] # rpm -qa | grep httpd

httpd-tools-2.4.62-1.amzn2.0.2.x86_64
generic-logos-httpd-18.0.0-4.amzn2.noarch

httpd-filesystem-2.4.62-1.amzn2.0.2.noarch

httpd-2.4.62-1.amzn2.0.2.x86_64
[root@ip-172-31-11-120 ~] #
```

5. Check the total number of packages installed on the system

```
[root@ip-172-31-11-120 ~]# rpm -qa | wc -1
465
[root@ip-172-31-11-120 ~]#
```

6. Install git by using CLI and check the total number of packages

```
46 MB/s | 13 MB 00:00:00
Running transaction check
Running transaction test
Transaction test succeeded
Running transaction
Installing: git-core-2.40.1-1.amzn2.0.3.x86_64
   Installing : git-core-doc-2.40.1-1.amzn2.0.3.noarch
  Installing : 1:perl-Error-0.17020-2.amzn2.noarch
  Installing : perl-TermReadKey-2.30-20.amzn2.0.2.x86_64
Installing : perl-Git-2.40.1-1.amzn2.0.3.noarch
  Installing : git-2.40.1-1.amzn2.0.3.x86 64
  | Installing | git-2.40.1-1.amzn2.0.3.x86_64 | Verifying | git-2.40.1-1.amzn2.0.3.x86_64 | Verifying | git-2.40.1-1.amzn2.0.3.x86_64 | Verifying | git-core-2.40.1-1.amzn2.0.3.x86_64 | Verifying | git-core-2.40.1-1.amzn2.0.3.x86_64 | Verifying | git-core-doc-2.40.1-1.amzn2.0.3.noarch | Verifying | perl-Git-2.40.1-1.amzn2.0.3.noarch |
  git.x86_64 0:2.40.1-1.amzn2.0.3
 Dependency Installed:
  git-core.x86_64 0:2.40.1-1.amzn2.0.3
                                                                                   git-core-doc.noarch 0:2.40.1-1.amzn2.0.3
  perl-Error.noarch 1:0.17020-2.amzn2
                                                                                   perl-Git.noarch 0:2.40.1-1.amzn2.0.3
  perl-TermReadKey.x86_64 0:2.30-20.amzn2.0.2
 Complete!
 [root@ip-172-31-11-120 ~]#
```