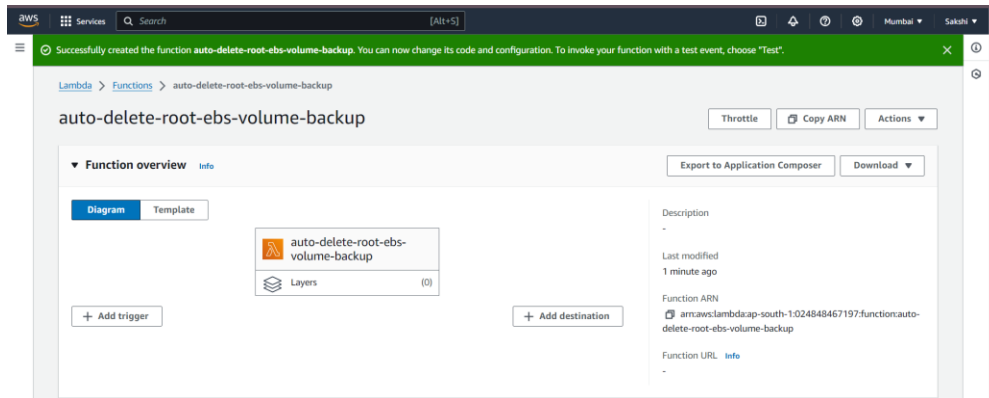


## 30th August 2024 - Lambda and Bootstrapping

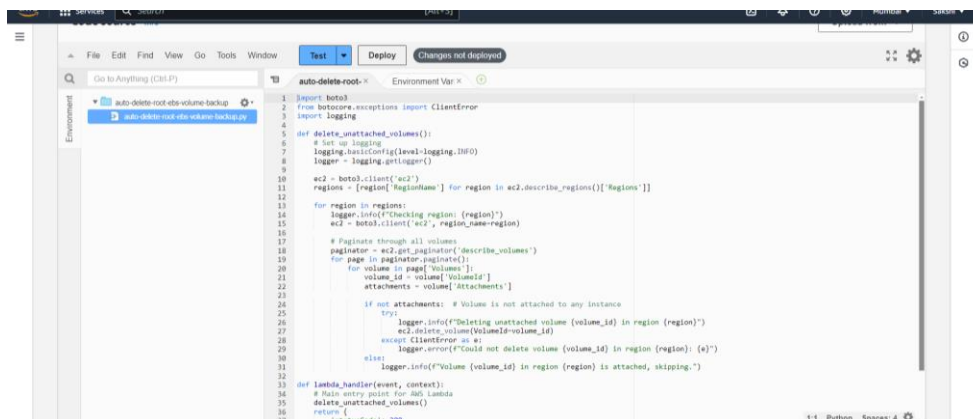
### Lambda

#### A. Delete unused EBS Volume Across Regions

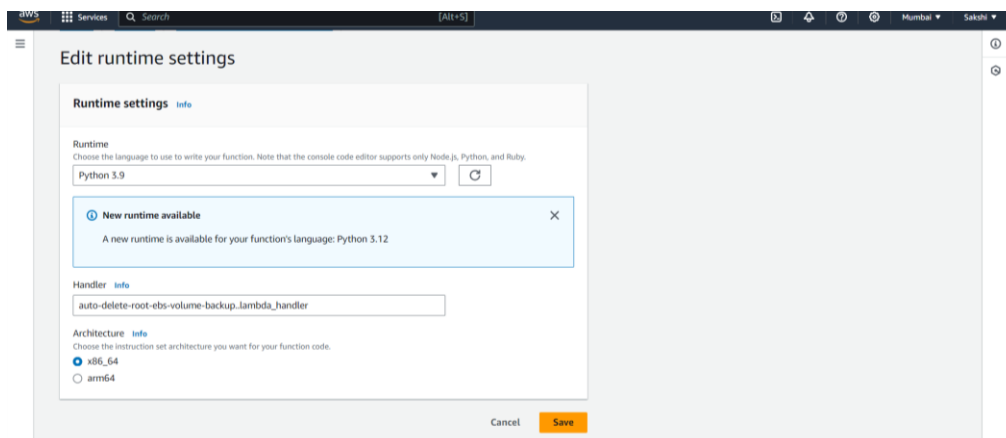
1. Create Lambda Function to delete the unused EBS volume across regions (auto-delete-root-ebs-volume-backup)



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

The screenshot shows the AWS Lambda console configuration page for a function. The 'Configuration' tab is selected. The 'General configuration' section is expanded, showing the following settings:

- Description: -
- Memory: 128 MB
- Ephemeral storage: 512 MB
- Timeout: 1 min 0 sec
- Execution role: Use an existing role

The 'SnapStart' section is also visible, showing 'None' as the selected option.

#### 5. Create volume of 10 GB

The screenshot shows the AWS EC2 console with a notification banner indicating 'Successfully created volume vol-06c554deec2da9567'. The 'Volumes (1)' table shows the following details:

Name	Volume ID	Type	Size	IOPS	Throughput	Snapshot ID	Created
-	vol-06c554deec2da9567	gp3	10 GiB	3000	125	-	2024/09/14 15:48 GMT+5:30

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

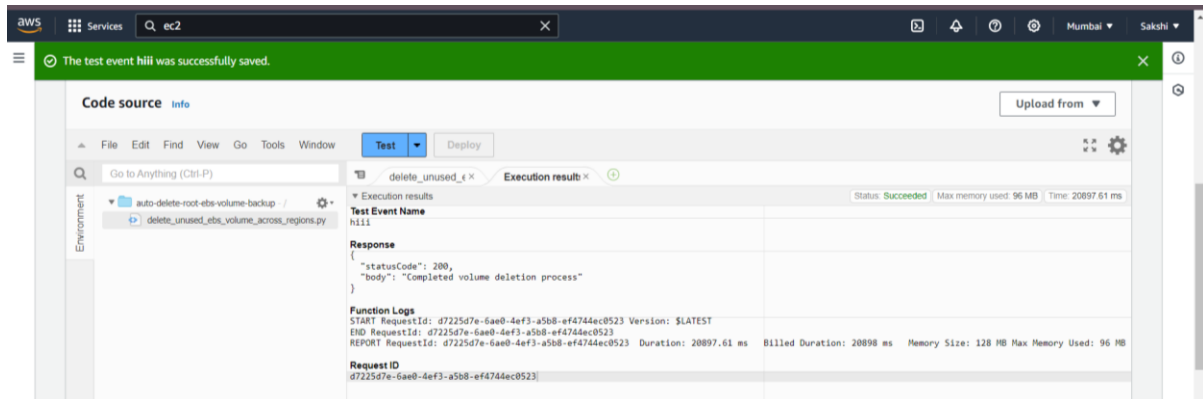
The screenshot shows the AWS EC2 console with a notification banner indicating 'Successfully created volume vol-06c554deec2da9567'. The 'Instances (1/1)' table shows the following details:

Name	Instance ID	Instance state	Instance type	Status check	Alarm status	Availability Zone	Public IP
-	i-06b060b4152c8344a	Running	t2.micro	Initializing	View alarms	ap-south-1b	ec2-11...

The 'Volumes (2)' table shows the following details:

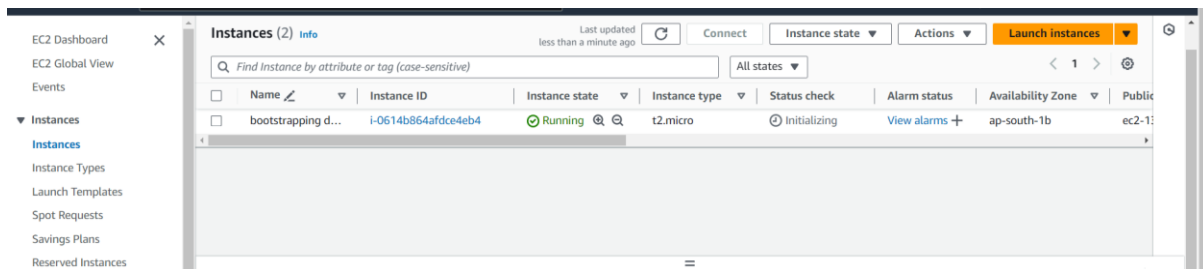
Name	Volume ID	Type	Size	IOPS	Throughput	Snapshot ID	Created
-	vol-0edfd119c86f86ec2	gp2	8 GiB	100	-	snap-0841fe2...	2024/09/14 15:52 GMT+5:30
-	vol-06c554deec2da9567	gp3	10 GiB	3000	125	-	2024/09/14 15:48 GMT+5:30

## 7. Run the Lambda function manually

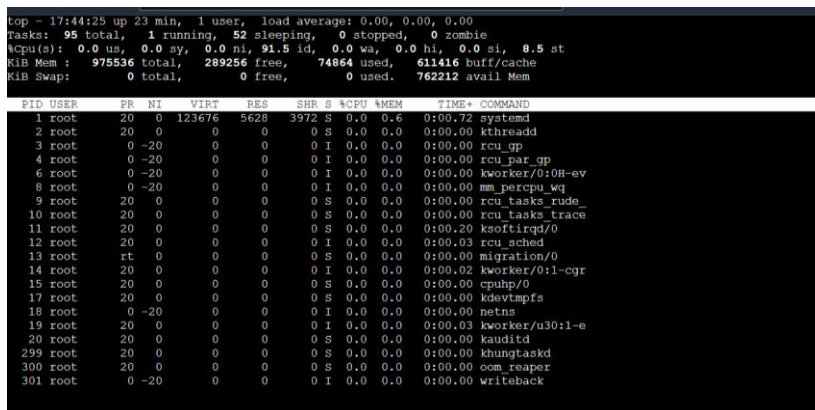


## Bootstrap:

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



### 2. Check the memory, process running, etc.



### 3. Check the created users

```
[root@ip-172-31-8-129 ~]#  
[root@ip-172-31-8-129 ~]#  
[root@ip-172-31-8-129 ~]# id sakshi  
uid=1001(sakshi) gid=1001(sakshi) groups=1001(sakshi)  
[root@ip-172-31-8-129 ~]# id riya  
uid=1002(riya) gid=1002(riya) groups=1002(riya)  
[root@ip-172-31-8-129 ~]#
```

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

```
[root@ip-172-31-8-129 ~]#  
[root@ip-172-31-8-129 ~]# rpm -qa | grep telnet  
telnet-0.17-65.amzn2.x86_64  
[root@ip-172-31-8-129 ~]# ^C  
[root@ip-172-31-8-129 ~]# ^C  
[root@ip-172-31-8-129 ~]# rpm -qa | grep httpd  
httpd-tools-2.4.62-1.amzn2.0.2.x86_64  
generic-logos-httpd-18.0.0-4.amzn2.noarch  
httpdfilesystem-2.4.62-1.amzn2.0.2.noarch  
httpd-2.4.62-1.amzn2.0.2.x86_64  
[root@ip-172-31-8-129 ~]#
```

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

```
[root@ip-172-31-8-129 ~]#  
[root@ip-172-31-8-129 ~]# rpm -qa | wc -l  
465  
[root@ip-172-31-8-129 ~]#
```

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

```
Total 51 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 1/6  
Installing : git-core-doc-2.40.1-1.amzn2.0.3.noarch 2/6  
Installing : 1:perl-Error-0.17020-2.amzn2.noarch 3/6  
Installing : perl-TermReadKey-2.30-20.amzn2.0.2.x86_64 4/6  
Installing : perl-Git-2.40.1-1.amzn2.0.3.noarch 5/6  
Installing : git-2.40.1-1.amzn2.0.3.x86_64 6/6  
Verifying : perl-TermReadKey-2.30-20.amzn2.0.2.x86_64 1/6  
Verifying : git-2.40.1-1.amzn2.0.3.x86_64 2/6  
Verifying : 1:perl-Error-0.17020-2.amzn2.noarch 3/6  
Verifying : git-core-2.40.1-1.amzn2.0.3.x86_64 4/6  
Verifying : git-core-doc-2.40.1-1.amzn2.0.3.noarch 5/6  
Verifying : perl-Git-2.40.1-1.amzn2.0.3.noarch 6/6  
  
Installed:  
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-172-31-8-129 ~]# rpm -qa | wc -l  
471  
[root@ip-172-31-8-129 ~]#
```