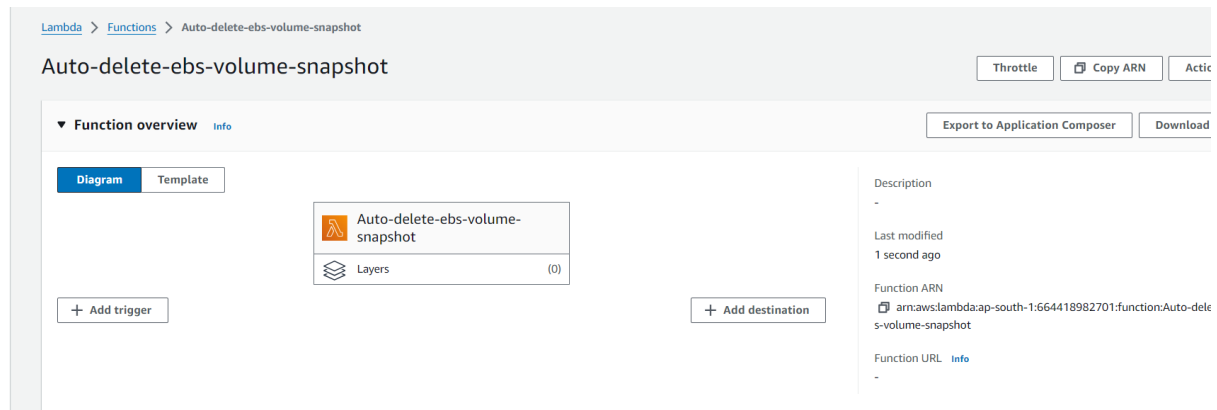


Lambda2nd_Function

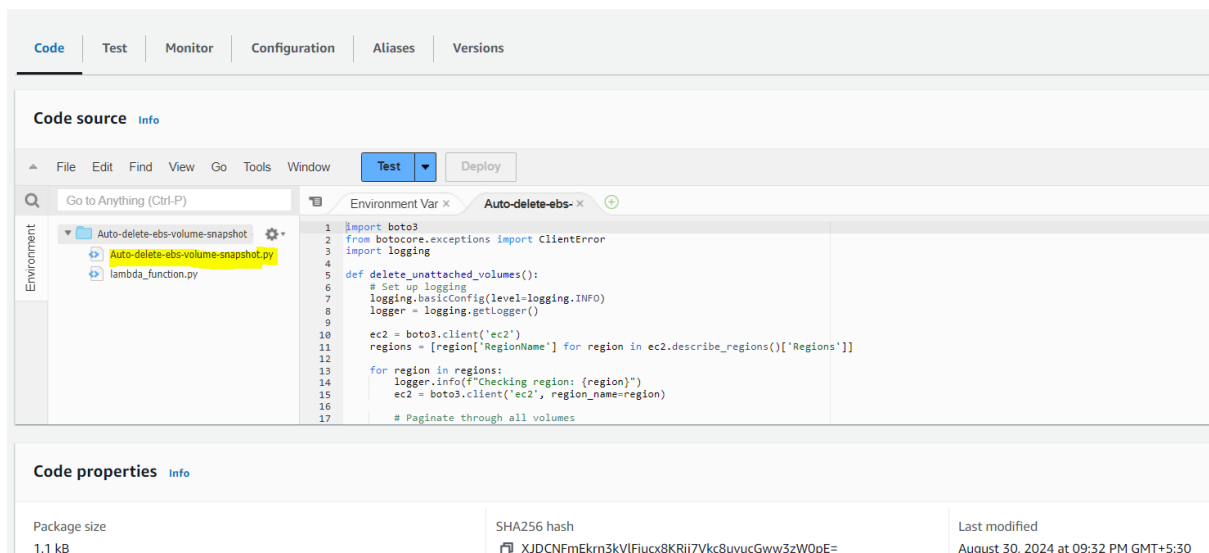
Savita Nalawade

Delete unused EBS Volume Across Regions

1) Create lambda function (Auto-delete-ebs-volume-snapshot)



2) Create Auto-delete-ebs-volume-snapshot.py file



3) Update the Handler name as (Auto-delete-ebs-volume-snapshot.lambda_handler)

The screenshot shows the 'Edit runtime settings' page in the AWS Lambda console. At the top, there's a navigation bar with the AWS logo, 'Services' menu, a search bar, and a keyboard shortcut '[Alt+S]'. Below the navigation bar is a sidebar with a hamburger menu icon. The main content area is titled 'Edit runtime settings' and contains several sections: 'Runtime settings' with an 'Info' link, 'Runtime' section with a dropdown menu set to 'Python 3.9' and a refresh button, a blue informational box stating 'New runtime available' for Python 3.12, 'Handler' section with a text input field containing 'Auto-delete-ebs-volume-snapshot.lambda_handler', 'Architecture' section with radio buttons for 'x86_64' (selected) and 'arm64', and another blue informational box explaining that changing runtime or architecture requires a new update. At the bottom right, there are 'Cancel' and 'Save' buttons.

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

The screenshot shows the 'Edit basic settings' page in the AWS Lambda console. The navigation bar and sidebar are identical to the previous screenshot. The main content area is titled 'Edit basic settings' and contains several sections: 'Basic settings' with an 'Info' link, 'Description - optional' with a text input field containing 'Runtime-configuration', 'Memory' section with a text input field set to '128' and 'MB' unit, 'Ephemeral storage' section with a text input field set to '512' and 'MB' unit, 'SnapStart' section with a dropdown menu set to 'None', 'Timeout' section with two text input fields set to '1' (minutes) and '0' (seconds), and 'Execution role' section with radio buttons for 'Use an existing role' (selected) and 'Create a new role from AWS policy templates'. At the bottom, there is an 'Existing role' section.

5) Created one volume which is in available state

Volumes (3) Info										
Q Search										
Volume ID	Type	Size	IOPS	Throughput	Snapshot ID	Created	Availability Zone	Volume state	Alarm	
vol-013fc07ff25f1f4b1	gp2	8 GiB	100	-	snap-0b5f827...	2024/08/30 20:18 GMT+5:...	ap-south-1b	In-use	No i	
vol-0dc91100f1bcca8b1	gp2	8 GiB	100	-	snap-0b5f827...	2024/08/30 20:18 GMT+5:...	ap-south-1b	In-use	No i	
vol-094cdf207a8cbc896	gp3	10 GiB	3000	125	-	2024/08/30 21:33 GMT+5:...	ap-south-1a	Available	No i	

6) Now, Run the code, It should delete the free volume

aws

Services

Q Search

[Alt+S]

Mumbai

save

Code source Info

Upload from

File Edit Find View Go Tools Window

Test Deploy

Go to Anything (Ctrl-P)

Environment Var Auto-delete-efs- Auto-delete-efs- Execution result

Auto-delete-efs-volume-snapshot

Auto-delete-efs-volume-snapshot.py

lambda_function.py

Test Event Name

lambda2

Response

```
{
  "statusCode": 200,
  "body": "Completed volume deletion process"
}
```

Function Logs

```
START RequestId: d52fdaab-799f-4680-b48c-66b061187b07 Version: $LATEST
END RequestId: d52fdaab-799f-4680-b48c-66b061187b07
REPORT RequestId: d52fdaab-799f-4680-b48c-66b061187b07 Duration: 20721.02 ms Billed Duration: 20722 ms Memory Size: 128 MB Max Memory Used: 96 MB Init Duration: 269.78 ms
```

Request ID

d52fdaab-799f-4680-b48c-66b061187b07

Code properties Info

Package size

SHA256 hash

Last modified

7) volume is deleted successfully

Volumes (2) Info										
Q Search										
Name	Volume ID	Type	Size	IOPS	Throughput	Snapshot ID	Created	Availability Zone	Volume state	Alarm
-	vol-013fc07ff25f1f4b1	gp2	8 GiB	100	-	snap-0b5f827...	2024/08/30 20:18 GMT+5:...	ap-south-1b	In-use	No i
-	vol-0dc91100f1bcca8b1	gp2	8 GiB	100	-	snap-0b5f827...	2024/08/30 20:18 GMT+5:...	ap-south-1b	In-use	No i

Bootstrapping

30th August 2024

1) Create a EC2 instance with stuffing and installing some package

4) Check the users are created or not

```
[root@ip-172-31-35-36 ~]# id savii01
uid=1001(savii01) gid=1001(savii01) groups=1001(savii01),1003(aws-devops)
[root@ip-172-31-35-36 ~]# id nalawade
uid=1002(nalawade) gid=1002(nalawade) groups=1002(nalawade)
[root@ip-172-31-35-36 ~]# cat /etc/groups
```

5) Check the if user is added or not as per stuffing (cat /etc/group)

```
ec2-user:x:1000:
savii01:x:1001:
nalawade:x:1002:
aws-devops:x:1003:savii01
apache:x:48:
[root@ip-172-31-35-36 ~]#
```

6) Check the memory

```
[root@ip-172-31-35-36 ~]# free -m
              total        used         free       shared    buff/cache   available
Mem:           952          73          278           0           600           744
Swap:           0           0           0
```

7) Check the harddisk

```
[root@ip-172-31-35-36 ~]# df -h
Filesystem      Size  Used Avail Use% Mounted on
devtmpfs        467M   0  467M   0% /dev
tmpfs           477M   0  477M   0% /dev/shm
tmpfs           477M 404K  476M   1% /run
tmpfs           477M   0  477M   0% /sys/fs/cgroup
/dev/xvda1      8.0G  1.8G  6.3G  23% /
tmpfs           96M   0   96M   0% /run/user/1000
[root@ip-172-31-35-36 ~]# lsblk
NAME        MAJ:MIN RM  SIZE RO TYPE MOUNTPOINT
xvda        202:0    0   8G  0 disk
└─xvda1     202:1    0   8G  0 part /
[root@ip-172-31-35-36 ~]#
```

8) Run Top command to check running proceess

```
top - 17:48:32 up 12 min, 1 user, load average: 0.00, 0.01, 0.00
Tasks: 94 total, 1 running, 52 sleeping, 0 stopped, 0 zombie
%Cpu(s): 0.0 us, 0.0 sy, 0.0 ni,100.0 id, 0.0 wa, 0.0 hi, 0.0 si, 0.0 st
KiB Mem : 975536 total, 285116 free, 74796 used, 615624 buff/cache
KiB Swap: 0 total, 0 free, 0 used. 762276 avail Mem
```

PID	USER	PR	NI	VIRT	RES	SHR	S	%CPU	%MEM	TIME+	COMMAND
1723	root	20	0	0	0	0	S	0.3	0.0	0:00.16	xfssaild/xvda1
3599	root	20	0	168828	4292	3760	R	0.3	0.4	0:00.01	top
1	root	20	0	123596	5444	3868	S	0.0	0.6	0:02.27	systemd
2	root	20	0	0	0	0	S	0.0	0.0	0:00.00	kthreadd
3	root	0	-20	0	0	0	I	0.0	0.0	0:00.00	rcu_gp
4	root	0	-20	0	0	0	I	0.0	0.0	0:00.00	rcu_par_gp
6	root	0	-20	0	0	0	I	0.0	0.0	0:00.00	kworker/0:0H-ev
8	root	0	-20	0	0	0	I	0.0	0.0	0:00.00	mm_percpu_wq
9	root	20	0	0	0	0	S	0.0	0.0	0:00.00	rcu_tasks_rude_
10	root	20	0	0	0	0	S	0.0	0.0	0:00.00	rcu_tasks_trace
11	root	20	0	0	0	0	S	0.0	0.0	0:00.03	ksoftirqd/0
12	root	20	0	0	0	0	I	0.0	0.0	0:00.15	rcu_sched
13	root	rt	0	0	0	0	S	0.0	0.0	0:00.00	migration/0
15	root	20	0	0	0	0	S	0.0	0.0	0:00.00	cpuhp/0
17	root	20	0	0	0	0	S	0.0	0.0	0:00.00	kdevtmpfs
18	root	0	-20	0	0	0	I	0.0	0.0	0:00.00	netns
19	root	20	0	0	0	0	I	0.0	0.0	0:00.01	kworker/u30:1-e
21	root	20	0	0	0	0	S	0.0	0.0	0:00.01	kauditd
299	root	20	0	0	0	0	S	0.0	0.0	0:00.00	khungtaskd
300	root	20	0	0	0	0	S	0.0	0.0	0:00.00	oom_reaper
301	root	0	-20	0	0	0	I	0.0	0.0	0:00.00	writeback
303	root	20	0	0	0	0	S	0.0	0.0	0:00.01	kcompactd0
304	root	25	5	0	0	0	S	0.0	0.0	0:00.00	ksmd
305	root	39	19	0	0	0	S	0.0	0.0	0:00.00	khugepaged
361	root	0	-20	0	0	0	I	0.0	0.0	0:00.00	kintegrityd
363	root	0	-20	0	0	0	I	0.0	0.0	0:00.00	kblockd

9) Check whether the package of httpd & telnet installed or not?

```
[root@ip-172-31-35-36 ~]# rpm -qa |grep httpd
httpd-tools-2.4.62-1.amzn2.0.2.x86_64
httpd filesystem-2.4.62-1.amzn2.0.2.noarch
httpd-2.4.62-1.amzn2.0.2.x86_64
generic-logos-httpd-18.0.0-4.amzn2.noarch
[root@ip-172-31-35-36 ~]# rpm -qa |grep telnet
telnet-0.17-65.amzn2.x86_64
[root@ip-172-31-35-36 ~]#
```

10) Check the total number of packages installed on the system

```
[root@ip-172-31-35-36 ~]# rpm -qa | wc -l
465
[root@ip-172-31-35-36 ~]#
```