AWS- Lambda

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Problem statement: - Create lambda code to for auto snapshot creation and deletion of 1 day older.

Requirements- 2 instances 1 with "Backup tag", IAM-lambda role with EC2 full access

1) Create 2 instance

2) IAM-Lamba role with EC2 full access

3) Create Lambda function

Lambda > Functions > auto_root_ebs-volume-backup

auto_root_ebs-volume-backup

[Throttle] [Copy ARN] [Actions ▼]

▼ **Function overview** Info

[Export to Application Composer] [Download ▼]

[**Diagram**] [Template]

λ auto_root_ebs-volume-backup

▤ Layers (0)

[+ Add trigger]

[+ Add destination]

Description
-

Last modified
now

Function ARN
⧉ arn:aws:lambda:ap-south-1:98553978364
6:function:auto_root_ebs-volume-backup

Function URL Info
-

4) **Use Below link for python code and pest code, deploy code and then test.**

https://github.com/satyam88/greentea/blob/master/automate_root_ebs_volume_backup.py

| Code | Test | Monitor | Configuration | Aliases | Versions |

Code source Info

[Upload from ▼]

⌃ File Edit Find View Go Tools Window   [**Test** ▼] [Deploy]   ⤢ ⚙

🔍 Go to Anything (Ctrl-P)

▤ lambda_function ✕   Environment Var ✕   Execution result: ✕ ⊕

▾ ▤ auto_root_ebs-volu ⚙▾
  ↔ lambda_function.py

▾ Execution results   Status: Succeeded   Max memory used: 86 MB   Time: 655.95 ms

Hello

Response
null

Function Logs
START RequestId: 82f91932-fef6-4b6d-8e98-9132ea68b4b2 Version: $LATEST
Found 1 instances that need backing up
Found EBS volume vol-04d12678c14fa3670 on instance i-0b88d39241df8622d
END RequestId: 82f91932-fef6-4b6d-8e98-9132ea68b4b2
REPORT RequestId: 82f91932-fef6-4b6d-8e98-9132ea68b4b2 Duration: 655.95 ms Billed Duration: 656 ms Memory Size: 128 MB Max

Request ID
82f91932-fef6-4b6d-8e98-9132ea68b4b2|

5) **Check whether snapshot is created or not ?**

⊘ Successfully deleted snapshot snap-00d995ea1ccef32c1.   ✕

Snapshots (1) Info

[↻] [⧉ Recycle Bin] [Actions ▼] [**Create snapshot**]

[Owned by me ▼]   [🔍 Search]   ‹ 1 › ⚙

	Name ▽	Snapshot ID ▲	Volume size ▽	Description ▽	Storage tier ▽	Snapshot status ▽	Started
☐	–	snap-05e364bd062258dad	8 GiB	–	Standard	⏱ Pending	2024/08/31 13:24 G

6) Hit/Run/Test the code 3 times to create 3 snapshots

Snapshots (3) Info

| | | | | C | ⬈ Recycle Bin | Actions ▼ | **Create snapshot** |

Owned by me ▼ | 🔍 Search | ‹ 1 › ⚙

	Name ▼	Snapshot ID ▼	Volume size ▼	Description ▼	Storage tier ▼	Snapshot status ▼	Started
☐	–	snap-0f2c4cd39cd83fea7	8 GiB	–	Standard	⏱ Pending	2024/08/31 13:30 G
☐	–	snap-05e364bd062258dad	8 GiB	–	Standard	⊘ Completed	2024/08/31 13:24 G
☐	–	snap-06d28df025802d884	8 GiB	–	Standard	⊘ Completed	2024/08/31 13:26 G

7) Add trigger to schedule the activity automatically for multiple times (1 day)

Triggers (1) Info

| | | C | Fix errors | Edit | Delete | Add trigger |

🔍 Find triggers   ‹ 1 ›

☐	**Trigger**

EventBridge (CloudWatch Events): Tirgger
arn:aws:events:ap-south-1:985539783646:rule/Tirgger
Rule state: ENABLED

▼ **Details**

Event bus: **default**
name: **Tirgger**
Schedule expression: **rate(1 day)**
Service principal: **events.amazonaws.com**
Statement ID: **lambda-e0fe6047-8326-453c-ad58-32768703b977**
url: **events/home#/rules/Tirgger**