Setup LAmbda Function to Monitor the ElasticSearch Backup

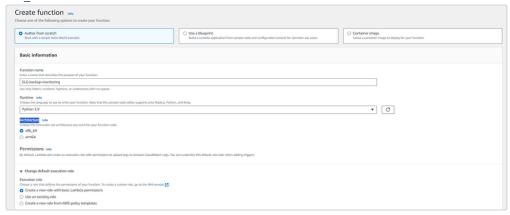
Prerequisites

- · Elasticsearch configured.
- · Prometheus service.
- PushGateway.
- · Elasticsearch repository.

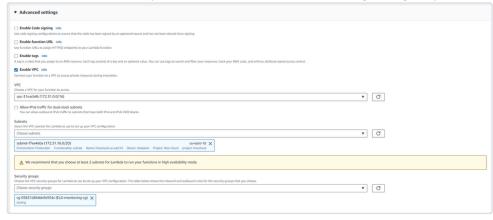
Instructions

To Monitor the Elasticsearch Snapshot using lambda function follow below steps.

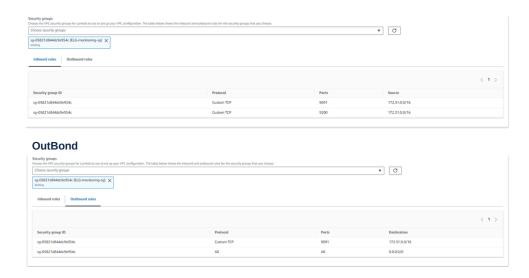
1. Create the Lambda function, Provide the relevant name to the function and select the runtime as python 3.9 and the Architecture x86_64.



- 2. In Advanced settings select the enable VPC.
 - a. Select the same VPC as elasticsearch server is running.
 - b. Select the same Subnets elasticsearch server.
 - c. Create the new subnet where post 9200, 9091 are allowed with in the VPC[inbound], and port 9091 in outbond.

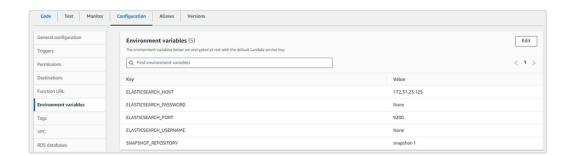


Inbound



- 3. Create the Lambda function.
- 4. Once the lambda function is created setup the environment variables.

	Environment Variables	Values
1	ELASTICSEARCH_HOST	172.31.23.125
2	ELASTICSEARCH_PASSWORD	None
3	ELASTICSEARCH_USERNAME	None
4	ELASTICSEARCH_PORT	9200
5	SNAPSHOT_REPOSITORY	snapshot-1
6	PUSH_Gateway	172.31.23.125



Once the **Environment Variables** now upload the py code which will monitor the status of backup. using below URL: Link

Once you upload the code then on line no 72 update the IP of the server where you push gateway is configured.

```
push_to_gateway(os.environ['PUSH_Gateway'] + ':9091', job='elasticsearch_snapshots', registry=registry)
```

Now it's time to test the Lambda function.

```
Test Event Name

test

Response

{
    "statusCode": 200,
    "booly": "\"netrics pushed successfully!\"**
}
    Function Logs

START Requestio: cisca557-212f-4000-b059-20f88csla701 Version: SLATEST

EUD Requestio: cisca557-212f-4000-b059-20f88csla701 Version: SLATEST

EUD Requestio: cisca557-212f-4000-b059-20f88csla701 Duration: 347.12 ms Billed Duration: 348 ms Memory Size: 128 MB Max Memory Used: 59 MB Init Duration: 452.70 ms

Requestio: cisca557-22f-400-b059-20f88csla701 Duration: 347.12 ms Billed Duration: 348 ms Memory Size: 128 MB Max Memory Used: 59 MB Init Duration: 452.70 ms

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```

Troubleshoot

If you encounter the below error.

Then add below code into lambda function.

1 import requests

articles

- Setup LAmbda Function to Monitor the ElasticSearch Backup
- **■** Observability Setup Documentation for Billeasy
- Client onboarding Guide
- **■** ELG Stack for Log monitoring
- ELK Stack for Log monitoring