ADV-DEVOPS LAB EXPERIMENT 12

DEEPA BEHRANI

D15B – 6

Functions (6)

Last fetched 16 minutes ago   Actions ▼   **Create function**

Filter by tags and attributes or search by keyword

< 1 >   ⚙

	Function name ▽	Description ▽	Package type ▽	Runtime ▽	Last modified ▽
☐	RedshiftOverwatch	Deletes Redshift Cluster if the count is more than 2.	Zip	Python 3.8	2 months ago
☐	RedshiftEventSubscription	Create Redshift event subscription to SNS Topic.	Zip	Python 3.8	2 months ago
☐	ModLabRole	updates LabRole to allow it to assume itself	Zip	Python 3.8	2 months ago
☐	MainMonitoringFunction	-	Zip	Python 3.8	2 months ago
☐	RoleCreationFunction	Create SLR if absent	Zip	Python 3.8	2 months ago
☐	deepa_adv-devops	-	Zip	Python 3.9	5 minutes ago

Services   Search   [Alt+S]   N. Virginia ▼   voclabs/user3386866=2022.deepa.behrani@ves.ac.in @ 5459-3233

⊘ The test event **deepa_adv-devops** was successfully saved.   ✕

File Edit Find View Go Tools Window   **Test** ▼   Deploy

Go to Anything (Ctrl-P)

▼ deepa_adv-devops   ⚙▼
   lambda_function.py

lambda_function × | Environment Var × | Execution results × | ⊕

```
1   import json
2
3   def lambda_handler(event, context):
4       # TODO implement
5       return {
6           'statusCode': 200,
7           'body': json.dumps('Hello from Lambda!')
8       }
9
```

---

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⊘ Successfully created the function **deepa_adv-devops**. You can now change its code and configuration. To invoke your function with a test event, choose "Test".   ✕

deepa_adv-devops

Throttle   ⧉ Copy ARN   Actions ▼

▼ Function overview   Info

Export to Application Composer   Download ▼

Diagram Template

deepa_adv-devops

Layers   (0)

+ Add trigger   + Add destination

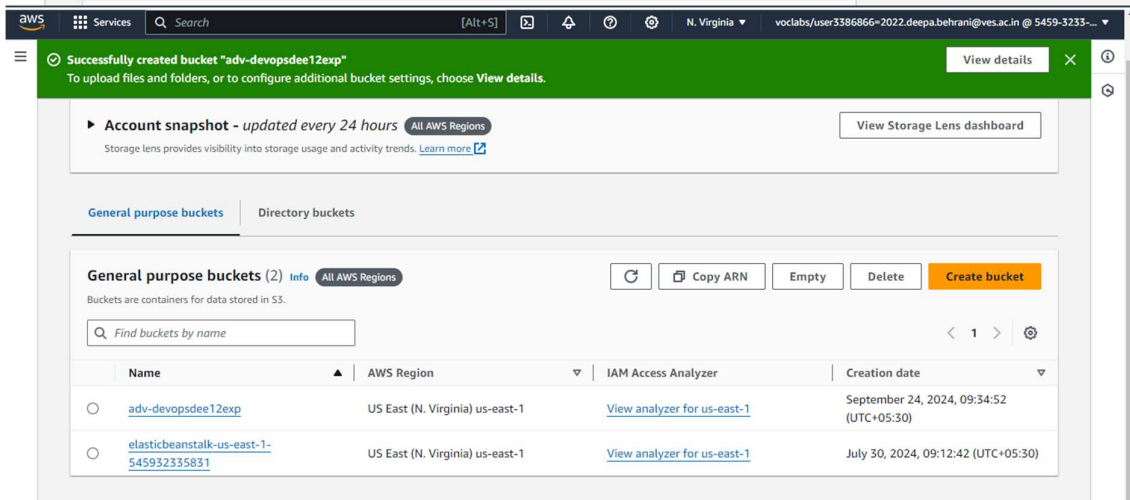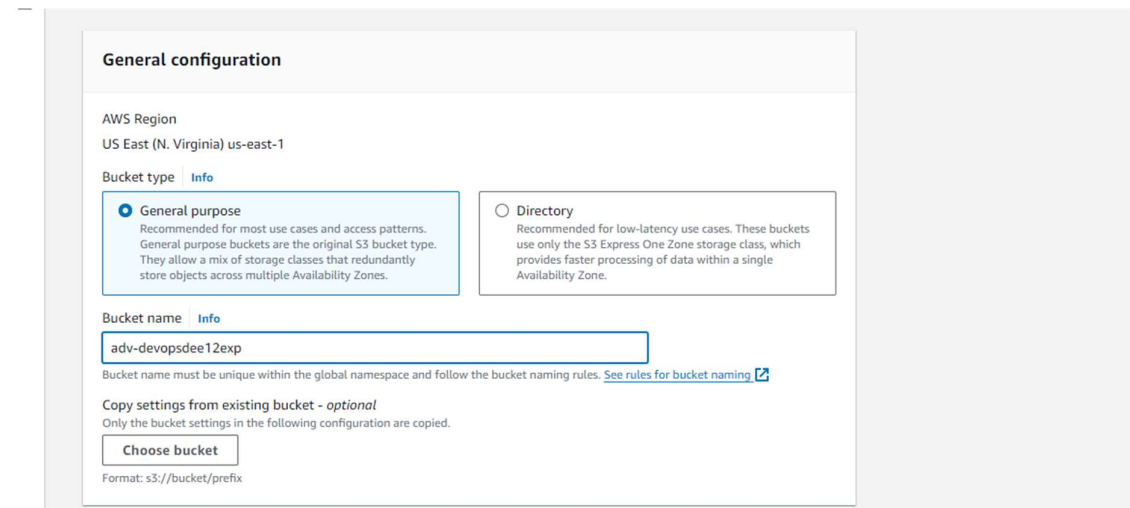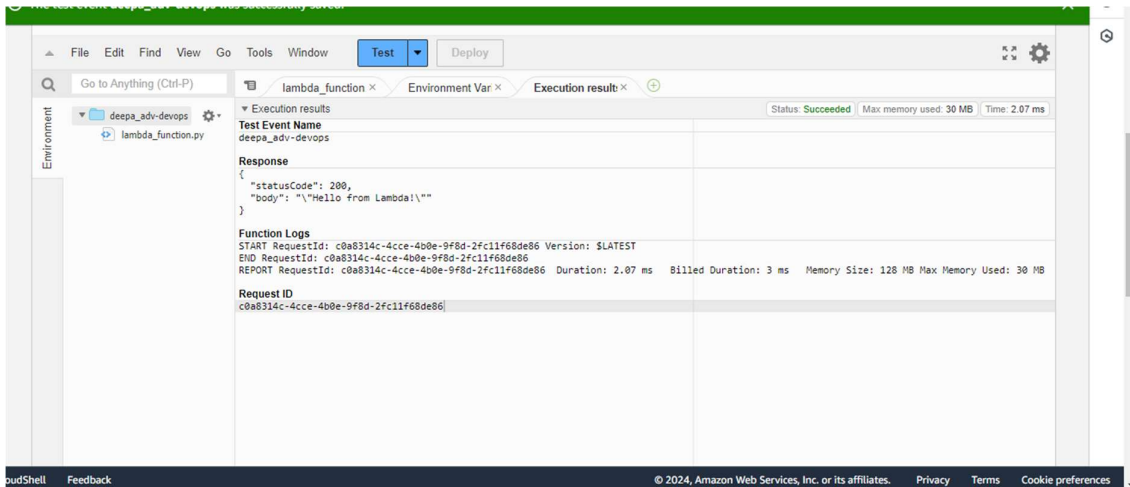**Description**
-

Last modified
12 seconds ago

Function ARN
⧉ arn:aws:lambda:us-east-1:545932335831:function:deepa_adv-devops

Function URL Info
-

File   Edit   Find   View   Go   Tools   Window   **Test** ▼   Deploy

Go to Anything (Ctrl-P)

lambda_function ×   Environment Var ×   Execution result: ×

▼ deepa_adv-devops

   lambda_function.py

▼ Execution results   Status: **Succeeded**   Max memory used: 30 MB   Time: 2.07 ms

Test Event Name
deepa_adv-devops

Response
{
  "statusCode": 200,
  "body": "\"Hello from Lambda!\""
}

Function Logs
START RequestId: c0a8314c-4cce-4b0e-9f8d-2fc11f68de86 Version: $LATEST
END RequestId: c0a8314c-4cce-4b0e-9f8d-2fc11f68de86
REPORT RequestId: c0a8314c-4cce-4b0e-9f8d-2fc11f68de86   Duration: 2.07 ms   Billed Duration: 3 ms   Memory Size: 128 MB Max Memory Used: 30 MB

Request ID
c0a8314c-4cce-4b0e-9f8d-2fc11f68de86

General configuration

AWS Region

US East (N. Virginia) us-east-1

Bucket type   Info

○ **General purpose**
Recommended for most use cases and access patterns.
General purpose buckets are the original S3 bucket type.
They allow a mix of storage classes that redundantly
store objects across multiple Availability Zones.

○ **Directory**
Recommended for low-latency use cases. These buckets
use only the S3 Express One Zone storage class, which
provides faster processing of data within a single
Availability Zone.

Bucket name   Info

adv-devopsdee12exp

Bucket name must be unique within the global namespace and follow the bucket naming rules. See rules for bucket naming ↗

Copy settings from existing bucket - *optional*
Only the bucket settings in the following configuration are copied.

Choose bucket

Format: s3://bucket/prefix

---

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⊘ **Successfully created bucket "adv-devopsdee12exp"**   View details
To upload files and folders, or to configure additional bucket settings, choose **View details**.

▶ **Account snapshot** - *updated every 24 hours*   All AWS Regions   View Storage Lens dashboard
Storage lens provides visibility into storage usage and activity trends. Learn more ↗

General purpose buckets   Directory buckets

General purpose buckets (2)   Info   All AWS Regions   ⟳   Copy ARN   Empty   Delete   **Create bucket**
Buckets are containers for data stored in S3.

Q Find buckets by name   ‹ 1 › ⚙

	Name ▲	AWS Region ▽	IAM Access Analyzer	Creation date ▽
○	adv-devopsdee12exp	US East (N. Virginia) us-east-1	View analyzer for us-east-1	September 24, 2024, 09:34:52 (UTC+05:30)
○	elasticbeanstalk-us-east-1-545932335831	US East (N. Virginia) us-east-1	View analyzer for us-east-1	July 30, 2024, 09:12:42 (UTC+05:30)

⊘ Successfully updated the function **adv-devops_dee-exp12.**

Code source Info

Upload from ▼

File Edit Find View Go Tools Window   **Test** ▼   Deploy

Go to Anything (Ctrl-P)

▼ 📁 adv-devops_dee-ex ⚙️▼
    ⟨⟩ index.mjs

index.mjs ✕   Environment Var ✕   Execution results ✕   ⊕

```
1   import json
2
3   def lambda_handler(event, context):
4       # Extract bucket name and object key from the event
5       bucket_name = event['Records'][0]['s3']['bucket']['name']
6       object_key = event['Records'][0]['s3']['object']['key']
7
8       # Log a message
9       print(f"An Image has been added to the bucket {bucket_name}: {object_key}")
10
11      return {
12          'statusCode': 200,
13          'body': json.dumps('Log entry created successfully')
14      }
15
```

Trigger configuration Info

S3
aws   asynchronous   storage   ▼

Bucket
Choose or enter the ARN of an S3 bucket that serves as the event source. The bucket must be in the same region as the function.

🔍 s3/adv-devopsdee12exp   ✕   ↻

Bucket region: us-east-1

Event types
Select the events that you want to have trigger the Lambda function. You can optionally set up a prefix or suffix for an event. However, for each bucket, individual events cannot have multiple configurations with overlapping prefixes or suffixes that could match the same object key.

                                                                  ▼

All object create events ✕   All object delete events ✕

Permanently deleted ✕   Delete marker created ✕

Prefix - optional
Enter a single optional prefix to limit the notifications to objects with keys that start with matching characters. Any special characters 🔗

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Prefix - optional

Enter a single optional prefix to limit the notifications to objects with keys that start with matching characters. Any special characters [↗] must be URL encoded.

[e.g. images/]

Suffix - optional

Enter a single optional suffix to limit the notifications to objects with keys that end with matching characters. Any special characters [↗] must be URL encoded.

[e.g. .jpg]

Recursive invocation

If your function writes objects to an S3 bucket, ensure that you are using different S3 buckets for input and output. Writing to the same bucket increases the risk of creating a recursive invocation, which can result in increased Lambda usage and increased costs. Learn more [↗]

☐ I acknowledge that using the same S3 bucket for both input and output is not
recommended and that this configuration can cause recursive invocations, increased
Lambda usage, and increased costs.

Lambda will add the necessary permissions for AWS S3 to invoke your Lambda function from this trigger. Learn more [↗] about the Lambda permissions model.

[Cancel] [**Add**]

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Lambda > Functions > adv-devops_dee-exp12

adv-devops_dee-exp12

[Throttle] [Copy ARN] [Actions ▼]

✓ The trigger adv-devopsdee12exp was successfully added to function adv-devops_dee-exp12. The function is now receiving events from the trigger. ✕

▼ **Function overview**   Info   [Export to Application Composer] [Download ▼]

[**Diagram**] [Template]

┌─────────────────────────┐
│ λ adv-devops_dee-   │
│   exp12   │
│ ┌─────────────────────┐ │
│ │ ≋ Layers   (0) │ │
│ └─────────────────────┘ │
└─────────────────────────┘

┌─────────────────────────┐
│ 🪣 S3   │   [+ Add destination]
└─────────────────────────┘

[+ Add trigger]

Description
-

Last modified
4 minutes ago

Function ARN
⎘ arn:aws:lambda:us-east-1:545932335831:functio
n:adv-devops_dee-exp12

Function URL   Info
-

aws | Services | Search [Alt+S] | N. Virginia ▼ | voclabs/user3386866=2022.deepa.behrani@ve

Amazon S3 > Buckets > adv-devopsdee12exp > Upload

Upload Info

Add the files and folders you want to upload to S3. To upload a file larger than 160GB, use the AWS CLI, AWS SDK or Amazon S3 REST API. Learn more ↗

Drag and drop files and folders you want to upload here, or choose **Add files** or **Add folder**.

Files and folders (1 Total, 88.8 KB) | Remove | Add files | Add folder

All files and folders in this table will be uploaded.

	Name ▽	Folder ▲	Type
☐	aws.png	-	image/png

Destination Info

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aws | Services | Search [Alt+S] | N. Virginia ▼ | voclabs/user3386866=2022.deepa.behrani@ves.ac.in @ 5459-3233-... ▼

⊘ **Upload succeeded**
View details below.

Summary

Destination	Succeeded	Failed
s3://adv-devopsdee12exp	⊘ 1 file, 88.8 KB (100.00%)	☺ 0 files, 0 B (0%)

Files and folders | Configuration

Files and folders (1 Total, 88.8 KB)

Find by name   ‹ 1 ›

Name	Folder ▽	Type ▽	Size ▽	Status ▽	Error ▽
aws.png ↗	-	image/png	88.8 KB	⊘ Succeeded	-

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