

Creation and Execution Steps –

1. Firstly, we'll need to create two separate buckets. One will be used for uploading the document file, and the other will be utilized for downloading the translated content document.

Successfully created bucket "s2-outputdoc"
To upload files and folders, or to configure additional bucket settings, choose [View details](#).

Amazon S3 > Buckets

Account snapshot 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 [Refresh](#) [Copy ARN](#) [Empty](#) [Delete](#) [Create bucket](#)

Buckets are containers for data stored in S3.

Find buckets by name

| | Name | AWS Region | IAM Access Analyzer | Creation date |
|-----------------------|------------------------------|---------------------------------|---|-----------------------------------|
| <input type="radio"/> | s1-inputdoc | US East (N. Virginia) us-east-1 | View analyzer for us-east-1 | May 4, 2024, 09:23:41 (UTC-06:00) |
| <input type="radio"/> | s2-outputdoc | US East (N. Virginia) us-east-1 | View analyzer for us-east-1 | May 4, 2024, 09:24:49 (UTC-06:00) |

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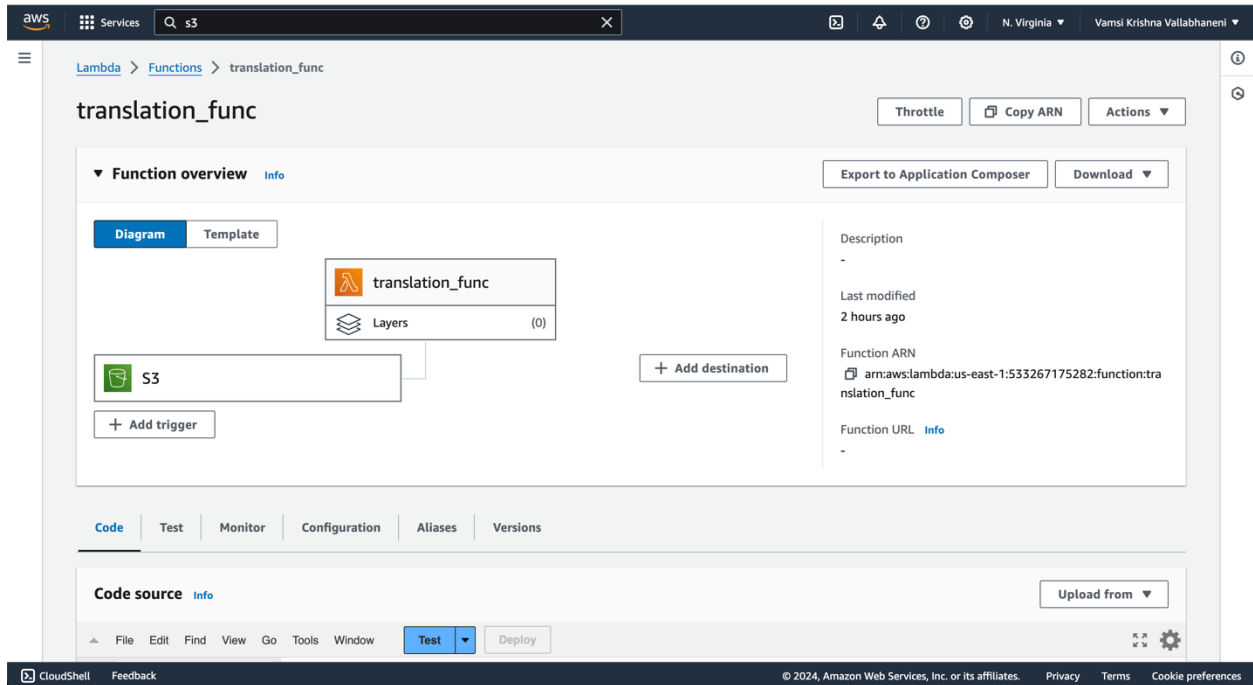
2. Generate an IAM role equipped with four permissions policies to enable access to the Lambda function:

- AmazonS3FullAccess
- TranslateFullAccess
- CloudWatchFullAccess
- AmazonRekognitionReadOnlyAccess

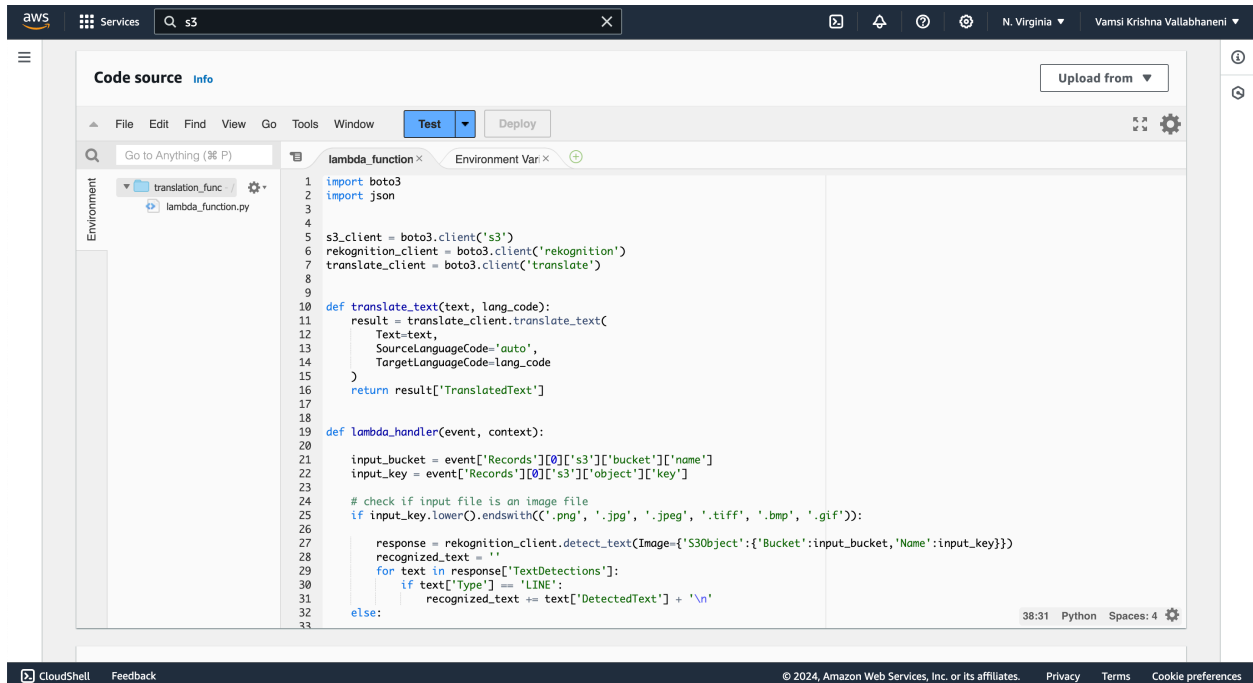
The screenshot displays the AWS IAM console interface. At the top, a green banner indicates 'Role translation_func created.' with a 'View role' button. The left sidebar shows the 'Identity and Access Management (IAM)' menu with options like Dashboard, Access management, Roles, Policies, and Access reports. The main content area shows the 'translation_func' role details, including its creation date (May 05, 2024, 14:18 UTC-07:00), ARN (arn:aws:iam::533267175282:role/translation_func), and maximum session duration (1 hour). Below this, the 'Permissions policies' tab is active, showing a list of four attached policies: AmazonRekognitionReadOnlyAccess, AmazonS3FullAccess, CloudWatchFullAccess, and TranslateFullAccess. Each policy is listed with its name, type (AWS managed), and the number of attached entities (1). The bottom of the screen shows the AWS footer with copyright information and links to Privacy, Terms, and Cookie preferences.

| Policy name | Type | Attached entities |
|---|-------------|-------------------|
| AmazonRekognitionReadOnlyAcc... | AWS managed | 1 |
| AmazonS3FullAccess | AWS managed | 1 |
| CloudWatchFullAccess | AWS managed | 1 |
| TranslateFullAccess | AWS managed | 1 |

- Next, set up a Lambda function and configure a trigger linked to an S3 bucket designated for input files.



- Afterwards, create a Python file within the Lambda function, copying the contents from 'Sourcecode_Lambda_func.py' to facilitate the translation of the input file.



5. Now, proceed to upload either text or image files requiring translation into the designated input S3 bucket.

aws Services iam

Amazon S3

Buckets

- Access Grants
- Access Points
- Object Lambda Access Points
- Multi-Region Access Points
- Batch Operations
- IAM Access Analyzer for S3

Block Public Access settings for this account

Storage Lens

- Dashboards
- Storage Lens groups
- AWS Organizations settings

Feature spotlight

AWS Marketplace for S3

s1-inputdoc

Objects (5)

Upload

Objects are the fundamental entities stored in Amazon S3. You can use [Amazon S3 Inventory](#) to get a list of all objects in your bucket. For others to access your objects, you'll need to explicitly grant them permissions. [Learn more](#)

Find objects by prefix

| | Name | Type | Last modified | Size | Storage class |
|--------------------------|------------------------------|------|-----------------------------------|---------|---------------|
| <input type="checkbox"/> | enfermo.docx | docx | May 5, 2024, 15:05:19 (UTC-07:00) | 12.7 KB | Standard |
| <input type="checkbox"/> | enfermo.txt | txt | May 5, 2024, 15:12:38 (UTC-07:00) | 8.0 B | Standard |
| <input type="checkbox"/> | images.png | png | May 5, 2024, 15:17:20 (UTC-07:00) | 4.3 KB | Standard |
| <input type="checkbox"/> | test1.png | png | May 5, 2024, 16:24:31 (UTC-07:00) | 12.5 KB | Standard |
| <input type="checkbox"/> | test2.jpeg | jpeg | May 5, 2024, 16:27:48 (UTC-07:00) | 4.7 KB | Standard |

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aws Services iam

Upload succeeded

View details below.

Upload: status

The information below will no longer be available after you navigate away from this page.

Summary

| | | |
|---------------------------------|--|-------------------------------|
| Destination s3://s1-inputdoc | Succeeded ✔ 1 file, 48.0 KB (100.00%) | Failed ✖ 0 files, 0 B (0%) |
|---------------------------------|--|-------------------------------|

Files and folders Configuration

Files and folders (1 Total, 48.0 KB)

Find by name

| Name | Folder | Type | Size | Status | Error |
|----------------------------|--------|------------|---------|-------------|-------|
| test3.jpeg | - | image/jpeg | 48.0 KB | ✔ Succeeded | - |

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- Now, search for the file with the same name and the '.txt' extension within the output S3 bucket.

The screenshot shows the AWS Management Console interface for the 's2-outputdoc' bucket. The left sidebar contains navigation options for Amazon S3, including Buckets, Access Grants, Access Points, Object Lambda Access Points, Multi-Region Access Points, Batch Operations, IAM Access Analyzer for S3, Storage Lens, and AWS Marketplace for S3. The main content area displays the 'Objects (5)' list for the bucket. The objects are:

| Name | Type | Last modified | Size | Storage class |
|---------------------------------|------|-----------------------------------|---------|---------------|
| enfermo.txt.txt | txt | May 5, 2024, 15:12:41 (UTC-07:00) | 5.0 B | Standard |
| images.png.txt | txt | May 5, 2024, 15:17:23 (UTC-07:00) | 27.0 B | Standard |
| test1.png.txt | txt | May 5, 2024, 16:24:35 (UTC-07:00) | 117.0 B | Standard |
| test2.jpeg.txt | txt | May 5, 2024, 16:27:50 (UTC-07:00) | 46.0 B | Standard |
| test3.jpeg.txt | txt | May 5, 2024, 16:30:35 (UTC-07:00) | 12.0 B | Standard |

- Download the file and review the translated results.

The screenshot shows the AWS Management Console interface for the 'test3.jpeg.txt' object within the 's2-outputdoc' bucket. The left sidebar is the same as the previous screenshot. The main content area displays the 'Object overview' for 'test3.jpeg.txt'. The object details are:

| Property | Value |
|----------------------------|--|
| Owner | vallabhaneni |
| AWS Region | US East (N. Virginia) us-east-1 |
| Last modified | May 5, 2024, 16:30:35 (UTC-07:00) |
| Size | 12.0 B |
| Type | txt |
| Key | test3.jpeg.txt |
| S3 URI | s3://s2-outputdoc/test3.jpeg.txt |
| Amazon Resource Name (ARN) | arn:aws:s3:::s2-outputdoc/test3.jpeg.txt |
| Entity tag (Etag) | af27029f09b8535ce622247218c2b093 |
| Object URL | https://s2-outputdoc.s3.amazonaws.com/test3.jpeg.txt |