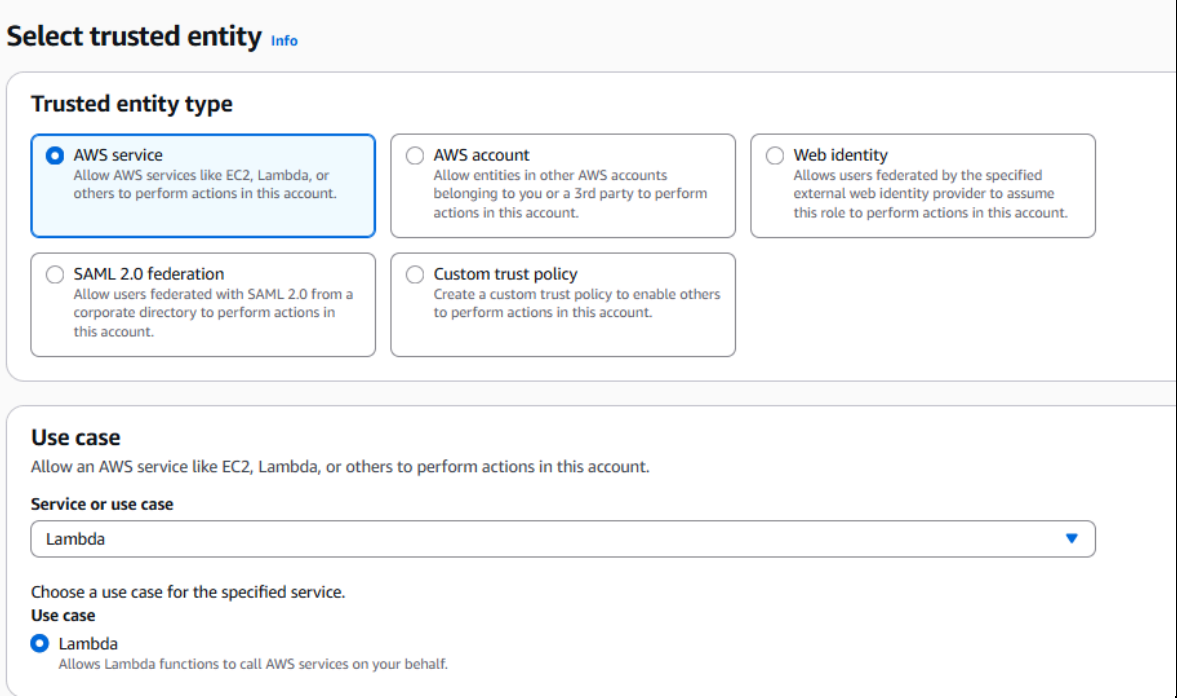
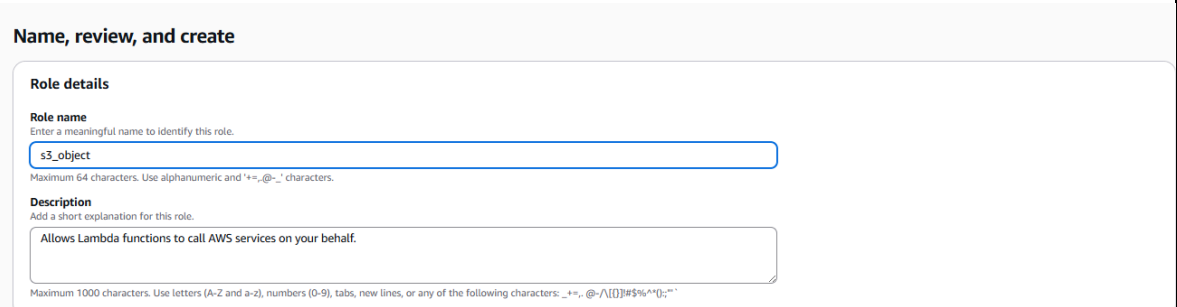


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Department of Information Technology
ADL Practical Exam

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Class: TEITB	Exam seat no:
PID: 231114	Time: 11:40
Roll No: 46	No. of Pages:
Duration: One Hour	

Sr No	Problem Statement (Type here): To create an AWS Lambda function to log “an object has been added” when adding the object to s3 bucket
1.	<p>Step 1 (creation/configuration/initial step(s)): (write step clearly) Here, we created a role with use case Screenshot 1: (full ss with login details and time stamp):</p>  <p>Select trusted entity Info</p> <p>Trusted entity type</p> <ul style="list-style-type: none"> <input checked="" type="radio"/> AWS service Allow AWS services like EC2, Lambda, or others to perform actions in this account. <input type="radio"/> AWS account Allow entities in other AWS accounts belonging to you or a 3rd party to perform actions in this account. <input type="radio"/> Web identity Allows users federated by the specified external web identity provider to assume this role to perform actions in this account. <input type="radio"/> SAML 2.0 federation Allow users federated with SAML 2.0 from a corporate directory to perform actions in this account. <input type="radio"/> Custom trust policy Create a custom trust policy to enable others to perform actions in this account. <p>Use case Allow an AWS service like EC2, Lambda, or others to perform actions in this account.</p> <p>Service or use case</p> <p>Lambda</p> <p>Choose a use case for the specified service.</p> <p>Use case</p> <ul style="list-style-type: none"> <input checked="" type="radio"/> Lambda Allows Lambda functions to call AWS services on your behalf.
2.	<p>Step 2 (internal step 1): (write step clearly) Here, the name of the role and the description was verified Screenshot 2: (full ss with login details and time stamp):</p>  <p>Name, review, and create</p> <p>Role details</p> <p>Role name Enter a meaningful name to identify this role.</p> <p>s3_object</p> <p>Maximum 64 characters. Use alphanumeric and '+', '@', '-', '_' characters.</p> <p>Description Add a short explanation for this role.</p> <p>Allows Lambda functions to call AWS services on your behalf.</p> <p>Maximum 1000 characters. Use letters [A-Z and a-z], numbers [0-9], tabs, new lines, or any of the following characters: '_', '+', '@', '-', '/', '[', ']', '#', '%', '^', '~', '``'.</p>
3.	<p>Step 3 (internal step 2): (write step clearly) The policies for the particular role was added Screenshot 3: (full ss with login details and time stamp):</p>

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	<div><div>Permissions policy summary</div><div><table><tr><th>Policy name</th><th>Type</th><th>Attached as</th></tr><tr><td>AmazonS3FullAccess</td><td>AWS managed</td><td>Permissions policy</td></tr><tr><td>AWSLambdaBasicExecutionRole</td><td>AWS managed</td><td>Permissions policy</td></tr><tr><td>CloudWatchFullAccess</td><td>AWS managed</td><td>Permissions policy</td></tr></table></div></div>	Policy name	Type	Attached as	AmazonS3FullAccess	AWS managed	Permissions policy	AWSLambdaBasicExecutionRole	AWS managed	Permissions policy	CloudWatchFullAccess	AWS managed	Permissions policy
Policy name	Type	Attached as											
AmazonS3FullAccess	AWS managed	Permissions policy											
AWSLambdaBasicExecutionRole	AWS managed	Permissions policy											
CloudWatchFullAccess	AWS managed	Permissions policy											
4.	<div><div>Step 4 (internal step 3): (write step clearly)</div><div>The Role was successfully created</div><div>Screenshot 4: (full ss with login details and time stamp)</div><div><div>Role s3_object created.</div><div><div>s3_object</div><div>Info</div><div>Allows Lambda functions to call AWS services on your behalf.</div><div><div>Summary</div><div><div>Creation date</div><div>October 25, 2025, 11:47 (UTC+05:30)</div></div></div></div></div></div>												
5.	<div><div>Step 5 (internal step 4): (write step clearly)</div><div>S3 bucket created successfully</div><div>Screenshot 5: (full ss with login details and time stamp)</div><div><table><tr><th>Name</th><th>AWS Region</th><th>Creation date</th></tr><tr><td>s3mockbucketrishabh</td><td>Europe (Stockholm) eu-north-1</td><td>October 25, 2025, 11:51:16 (UTC+05:30)</td></tr></table></div></div>	Name	AWS Region	Creation date	s3mockbucketrishabh	Europe (Stockholm) eu-north-1	October 25, 2025, 11:51:16 (UTC+05:30)						
Name	AWS Region	Creation date											
s3mockbucketrishabh	Europe (Stockholm) eu-north-1	October 25, 2025, 11:51:16 (UTC+05:30)											
6.	<div><div>Step 6 (internal step 5): (write step clearly)</div><div>Here, we created a Python 3.13 Lambda function</div><div>Screenshot 6: (full ss with login details and time stamp)</div></div>												

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Create function [Info](#)

Choose one of the following options to create your function.

☒ **Author from scratch**
Start with a simple Hello World example.

☐ **Use a blueprint**
Build a Lambda application from sample code and configuration presets for common use cases.

☐ **Create from a template**
Build a Lambda application from a template.

Basic information

Function name
Enter a name that describes the purpose of your function.

s3_function

Function name must be 1 to 64 characters, must be unique to the Region, and can't include spaces. Valid characters are a-z, A-Z, 0-9, hyphens (-), and underscores (_).

Runtime | [Info](#)
Choose the language to use to write your function. Note that the console code editor supports only Node.js, Python, and Ruby.

Python 3.13

Architecture | [Info](#)
Choose the instruction set architecture you want for your function code.

☐ arm64

☒ x86_64

- | | |
|----|---|
| 7. | <p>Step 7 (internal step 6): (write step clearly)</p> <p>We added the default execution role to the role that we had created</p> <p>Screenshot 7: (full ss with login details and time stamp)</p> |
|----|---|

▼ Change default execution role

Execution role

Choose a role that defines the permissions of your function. To create a custom role, go to the [IAM console](#).

☐ Create a new role with basic Lambda permissions

☒ Use an existing role

☐ Create a new role from AWS policy templates

Existing role

Choose an existing role that you've created to be used with this Lambda function. The role must have permission to upload logs to Amazon CloudWatch Logs.

s3_object

↻

[View the s3_object role](#) on the IAM console.

▶ Additional configurations

Use additional configurations to set up networking, security, and governance for your function. These settings help secure and customize your Lambda function deployment.

Cancel

Create function

- | | |
|----|---|
| 8. | <p>Step 8 (internal step 7): (write step clearly)</p> <p>Here, we edited the json code with name, pid and other details and also changed the bucket name</p> <p>Screenshot 8: (full ss with login details and time stamp)</p> |
|----|---|

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```
lambda_function.py
1  import json
2  import boto3
3
4  s3 = boto3.client('s3') # Create an S3 client
5
6  def lambda_handler(event, context):
7      bucket = 's3mockbucketrishabh' # Define your S3 bucket name
8
9      dataToUpload = {} # Initialize an empty dictionary
10
11      # Add key-value pairs to the dictionary
12      dataToUpload['PID'] = '231114'
13      dataToUpload['DEPT'] = 'INFT'
14      dataToUpload['NAME'] = 'RISHABH'
15      dataToUpload['FILE'] = 'ABC 1234'
16
17      # Define the filename, adding the .json extension
18      fileName = 'ABC 1234' + '.json'
19
20      # Convert the dataToUpload dictionary to a JSON byte stream
21      uploadByteStream = bytes(json.dumps(dataToUpload).encode('UTF-8'))
22
23      # Upload the JSON byte stream to S3
24      s3.put_object(Bucket=bucket, Key=fileName, Body=uploadByteStream)
25
26      print(f"Object has been uploaded to {bucket} with key {fileName}")
27
```

Ln 20, Col 19 Spaces: 4 UTF-8 LF Python Lambda Layout: US

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Search ENG IN 12:42 25-10-2025

9. Step 9 (internal step 8): (write step clearly)
The test event ran successfully and was seen from this
Screenshot 9: (full ss with login details and time stamp)

Status: Succeeded
Test Event Name: MockTestEvent1

Response:
null

Function Logs:
START RequestId: 8100bfa0-1b64-48fe-ae2b-e9ae1a696a2f Version: \$LATEST
Object has been uploaded to s3mockbucketrishabh with key ABC 1234.json
END RequestId: 8100bfa0-1b64-48fe-ae2b-e9ae1a696a2f
REPORT RequestId: 8100bfa0-1b64-48fe-ae2b-e9ae1a696a2f Duration: 258.64 ms Billed Duration: 259 ms Memory Size: 128 MB Max Memory Used: 92 MB

Request ID: 8100bfa0-1b64-48fe-ae2b-e9ae1a696a2f

9. Step 10 (stop/delete step) : (write step clearly)
The object was successfully added to the bucket
Screenshot 10: (full ss with login details and time stamp)

s3mockbucketrishabh Info

Objects Properties Permissions Metrics Management Access Points

Objects (1) [Copy S3 URI](#) [Copy URL](#) [Download](#) [Open](#) [Delete](#) [Actions](#) [Create folder](#) [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

<input type="checkbox"/>	Name	Type	Last modified	Size	Storage class
<input type="checkbox"/>	ABC 1234.json	json	October 25, 2025, 12:42:18 (UTC+05:30)	72.0 B	Standard

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	Note: Adjust SS to fit in the table row. SS should include username and timestamp. Add rows if needed