

# Advance AWS

## AWS Project- 1 (Day -15)

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Teacher:

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Course:

Advance AWS Cloud Computing with DevOps  
Fundamentals

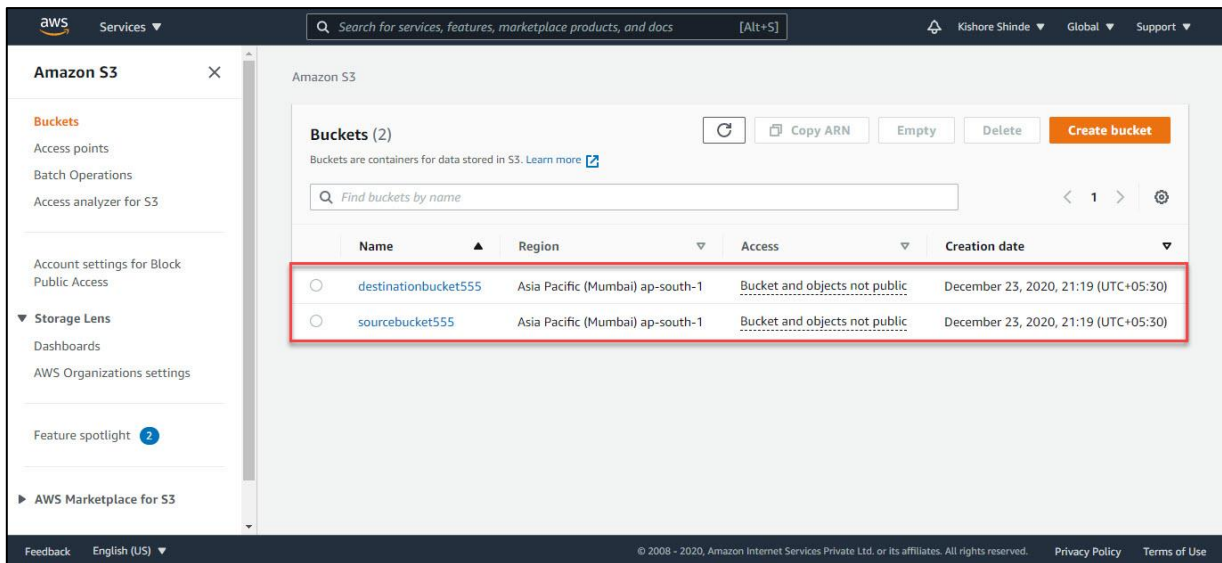
Institute:

Lets Upgrade

# Project 1: Working with Lambda

Step 1 : Create two s3 buckets with the name

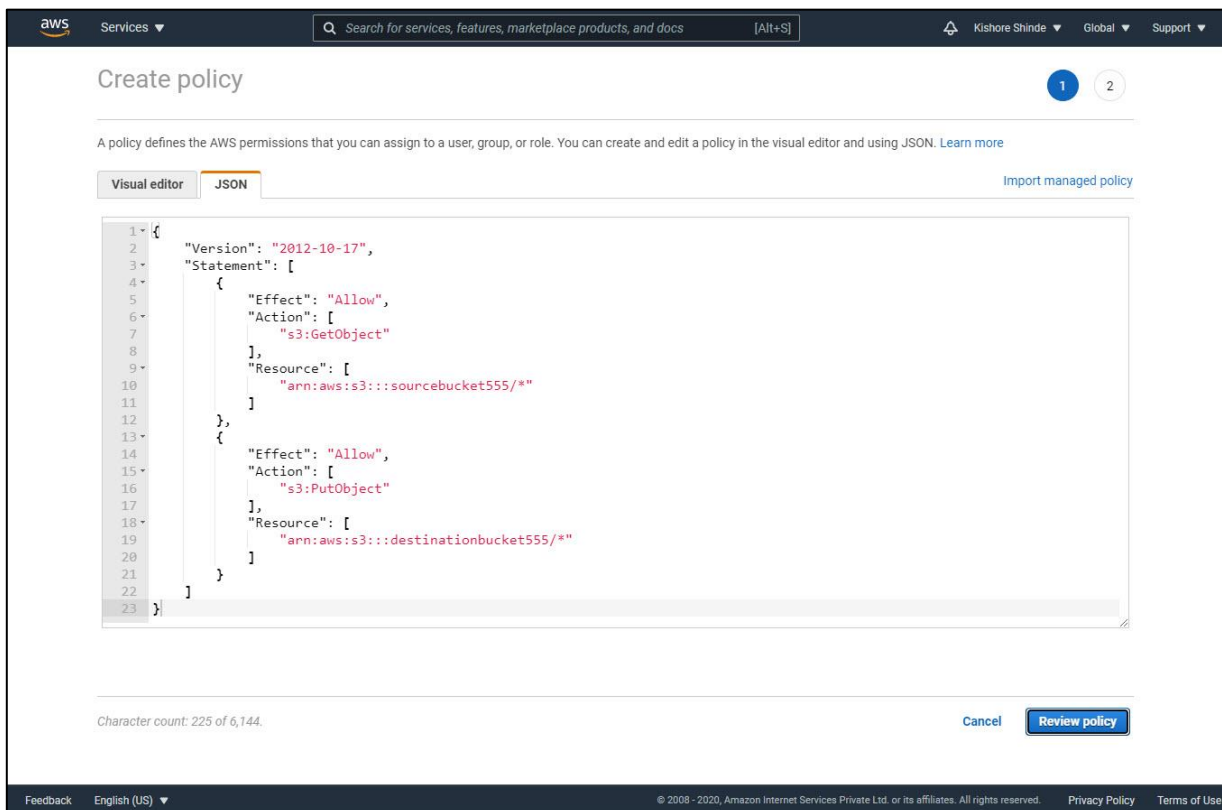
SS1 : S3 Console with two buckets



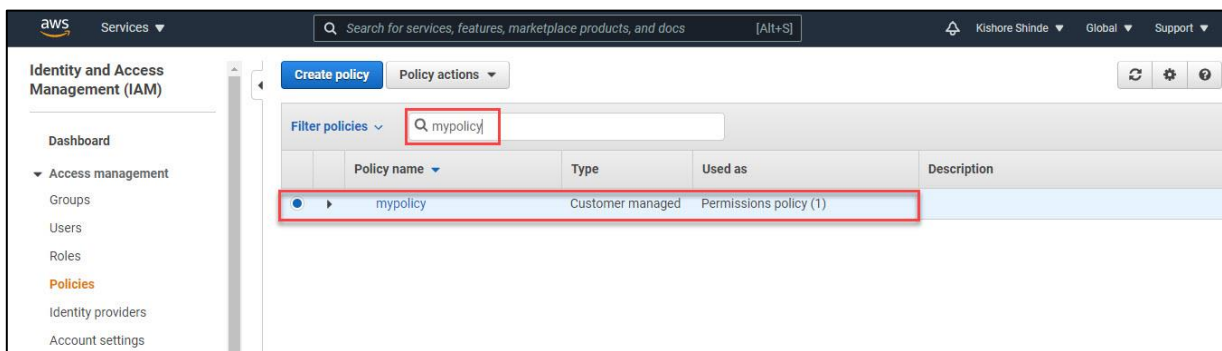
S. No.	Name	ARN
1.	sourcebucket555	arn:aws:s3:::sourcebucket555
2.	destinationbucket555	arn:aws:s3:::destinationbucket555

## Step 2: Create a policy with limited Read-write permissions using a JSON script

### SS2 : JSON script in file



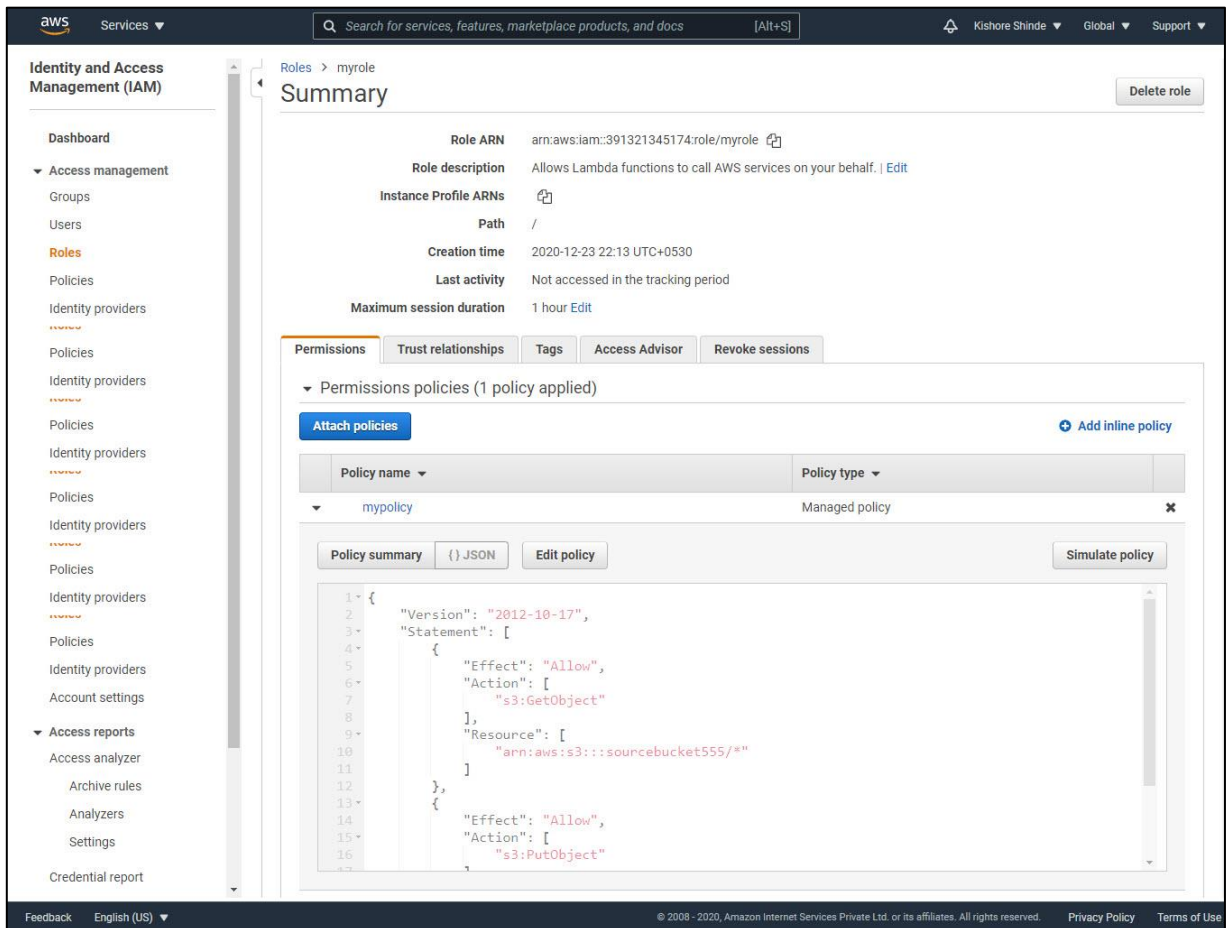
### SS3 : Policy console with your policy filtered



- Policy Name : mypolicy

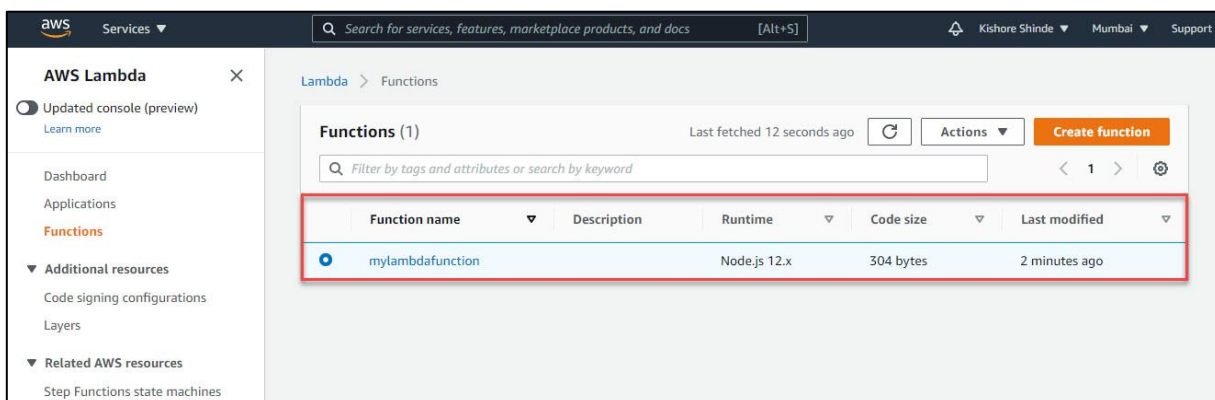
Step 3 : Create a role and attach the policy created

SS4 : Role console showing details of the role



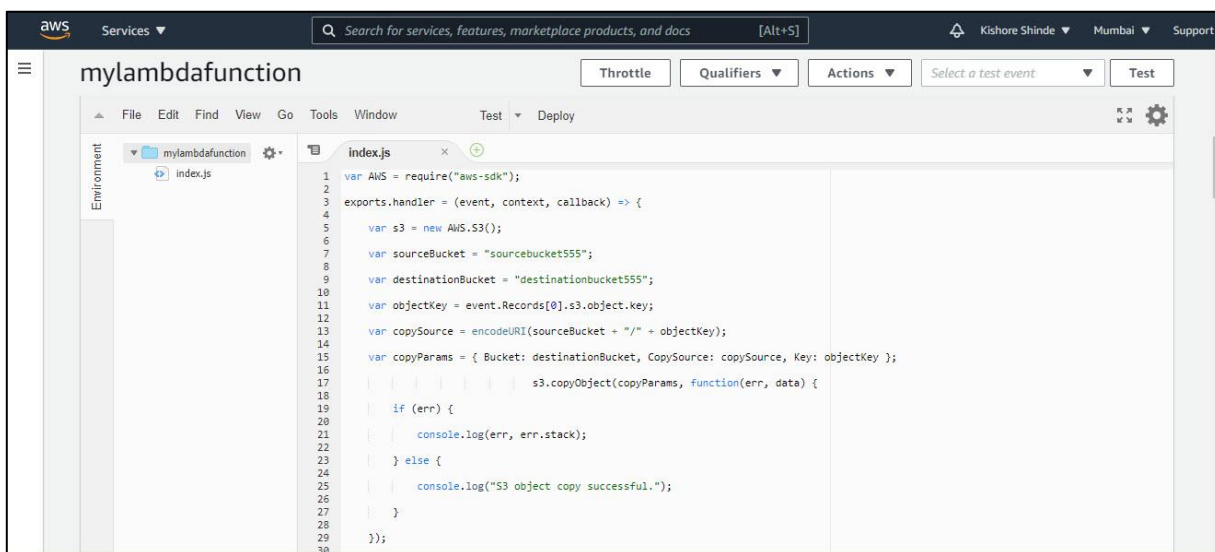
Sr. No.	Role Name	Role ARN
1	myrole	arn:aws:iam::391321345174:role/myrole

## SS5 : Lambda Function Dashboard



Sr. No.	Function name	Runtime
1	mylambdafunction	Node.js 12.x

## SS6 : JS file edited



File Name - index.js

## SS7 : Adding trigger-s3, bucket name, confirmation for having separate buckets

The screenshot shows the 'Add trigger' page in the AWS Lambda console. The 'Trigger configuration' section is highlighted with a red box. It includes a dropdown for 'S3' (aws storage), a 'Bucket' dropdown set to 'sourcebucket555', and an 'Event type' dropdown set to 'All object create events'. Below these are optional fields for 'Prefix' (e.g. images/) and 'Suffix' (e.g. .jpg). A blue box contains a warning: 'The Lambda console no longer supports disabling S3 and CloudWatch Logs triggers. Delete these triggers to stop further actions.' At the bottom, a 'Recursive invocation' section with an information icon contains a checkbox that is checked, with the text: '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.' The 'Add' button is highlighted with a red box.

**Trigger configuration**

**S3**  
aws storage

**Bucket**  
Please select the S3 bucket that serves as the event source. The bucket must be in the same region as the function.  
sourcebucket555

**Event type**  
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

**Prefix - optional**  
Enter a single optional prefix to limit the notifications to objects with keys that start with matching characters.  
e.g. images/

**Suffix - optional**  
Enter a single optional suffix to limit the notifications to objects with keys that end with matching characters.  
e.g. .jpg

Lambda will add the necessary permissions for Amazon S3 to invoke your Lambda function from this trigger. [Learn more](#) about the Lambda permissions model.

The Lambda console no longer supports disabling S3 and CloudWatch Logs triggers. Delete these triggers to stop further actions.

**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](#)

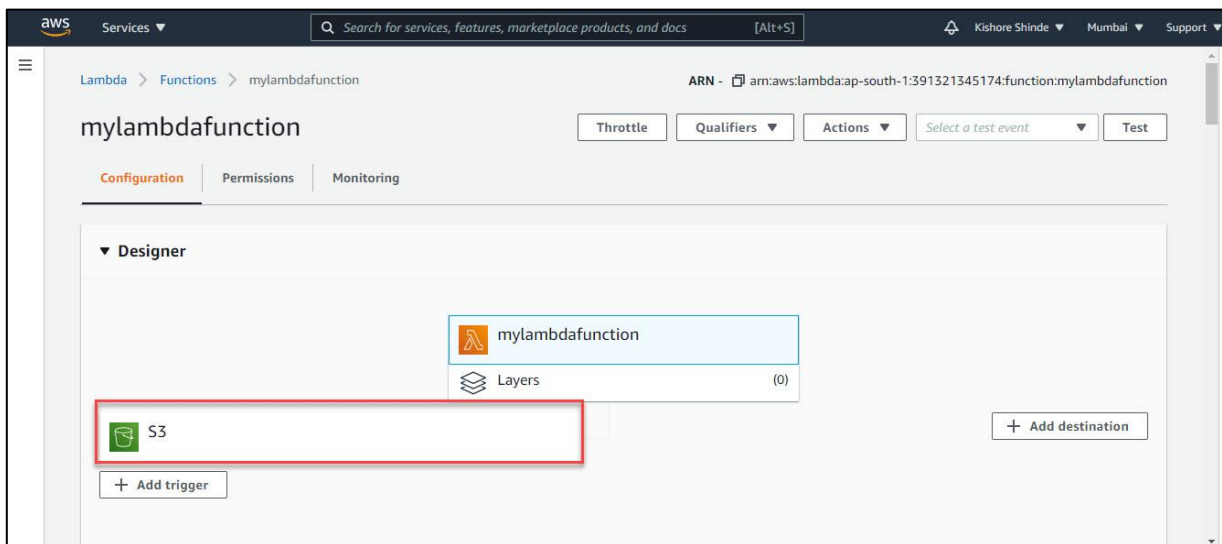
☒ I acknowledge that using the same S3 bucket for both input and output is not recommended and that this configuration can cause recursive invocations, increased Lambda usage, and increased costs.

Cancel Add

Sr. No.	Trigger Selected	Bucket	Even Type	Recursive Invocation
1	S3	sourcebucket555	All object create event	Acknowledge using separate buckets for input and output.

## Step 5 : Adding triggers to the lambda function

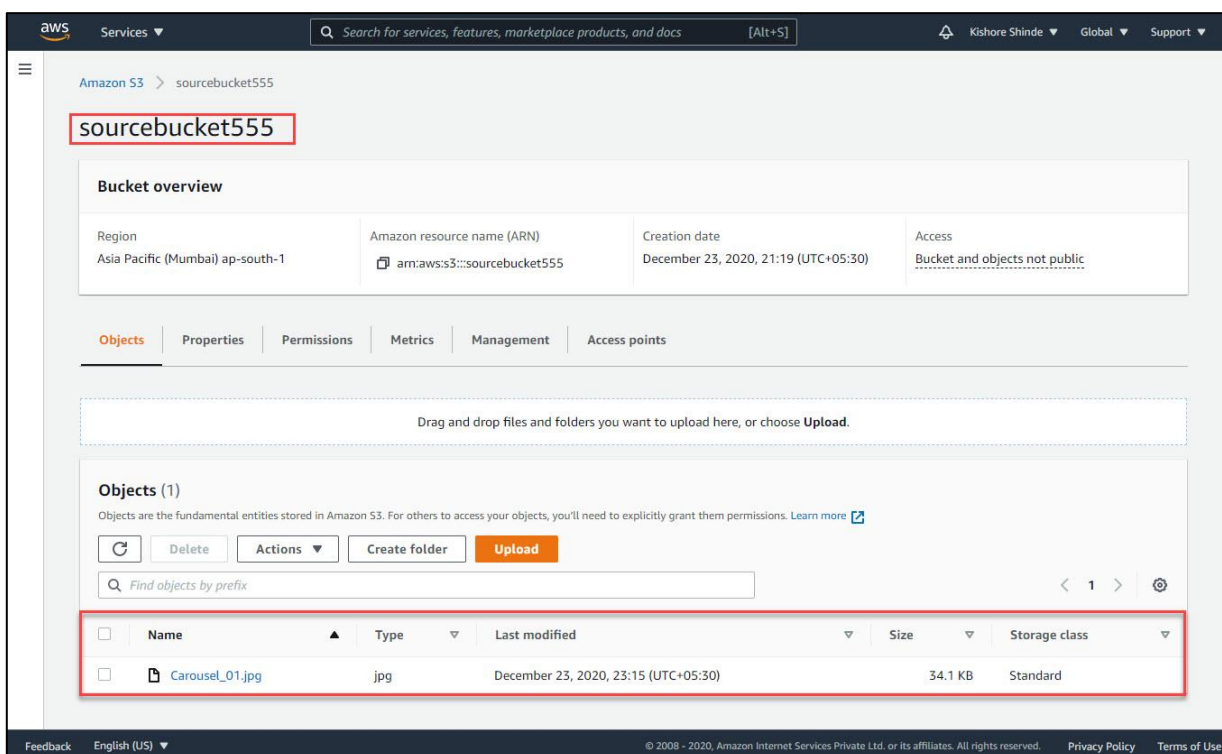
### SS8 : Lambda configuration page with trigger added



- Trigger Name : mylambdafunction
- Trigger Selected : S3

## Step 6 : Test by uploading objects into the source bucket

### SS9 : Object uploaded in the source bucket



## SS 10 : Object replicated in the destination bucket

The screenshot displays the Amazon S3 console interface. The left sidebar shows the navigation menu with 'Buckets' selected. The main content area shows the 'destinationbucket555' bucket overview. The bucket name is highlighted with a red box. Below the overview, the 'Objects' tab is selected, showing a list of objects. The object 'Carousel\_01.jpg' is highlighted with a red box. The table below shows the details of the object.

Name	Type	Last modified	Size	Storage class
Carousel_01.jpg	jpg	December 23, 2020, 23:15 (UTC+05:30)	34.1 KB	Standard

xxx---Project 1 Ends Here---xxx