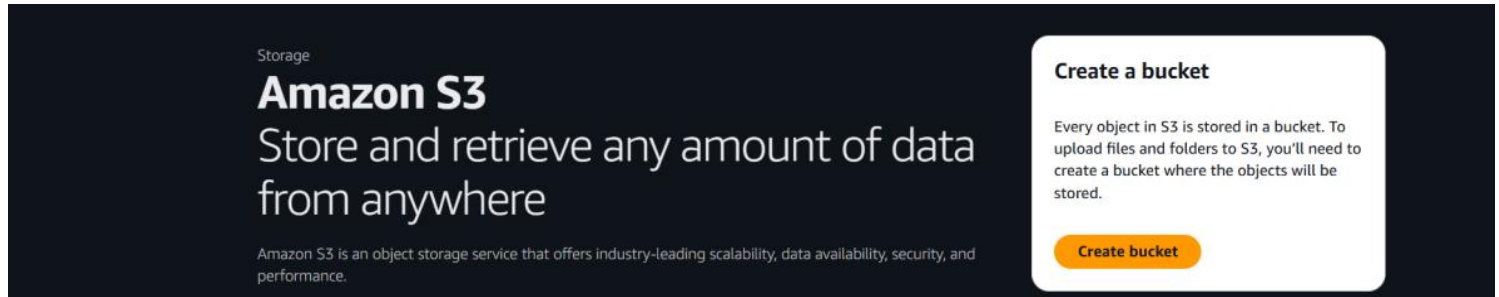


# Enable server access login for an S3 bucket and setup a CloudWatch Event rule to track and alert when a new object is uploaded

- Prplevamp20

## Overview

The task involves enabling **S3 Server Access Logging** for an S3 bucket to monitor access requests, uploading an object to see the logs, and setting up a **CloudWatch Event Rule** to notify when new objects are uploaded. This helps ensure better observability and real-time monitoring of S3 bucket activities.

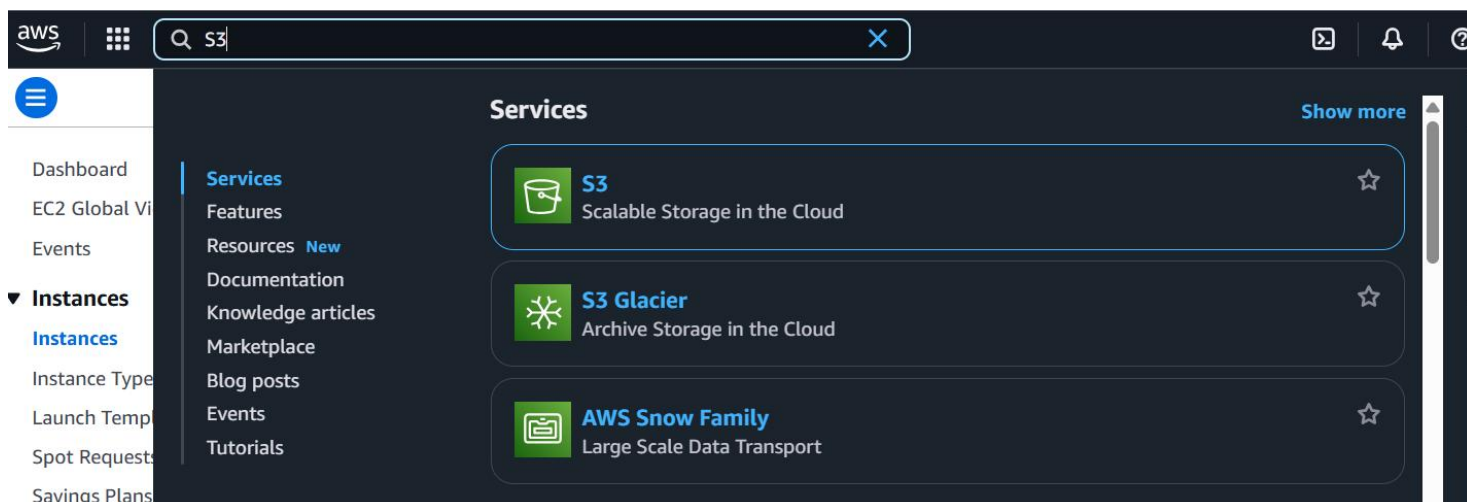


## Prerequisites

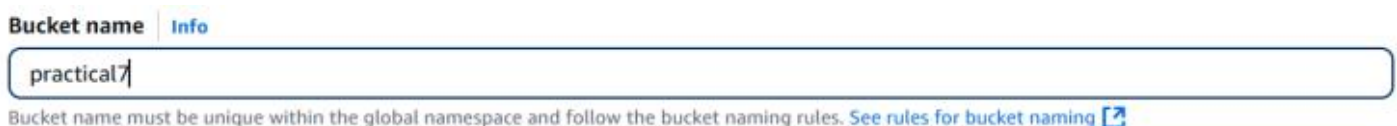
- **AWS Account:** Ensure you have access to the AWS Management Console.
- **S3 Bucket:** Create an S3 bucket if you don't already have one.
- **IAM Permissions:** Ensure your IAM role/user has sufficient permissions to configure S3 logging, CloudWatch rules, and SNS.
- **SNS Topic:** Optional but recommended for notification setup.

## STEP 1:

1. Login to AWS console and navigate to S3 service.



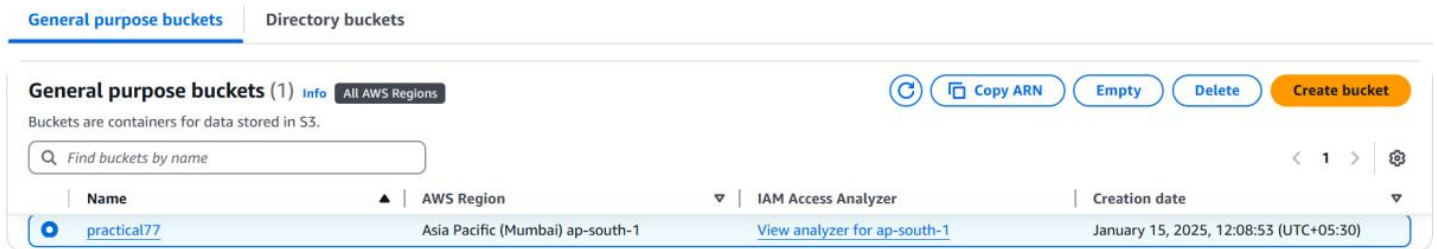
2. Click on create bucket or can use the existing one.
3. Give the bucket name and it should be unique, keep everything at default and create bucket.



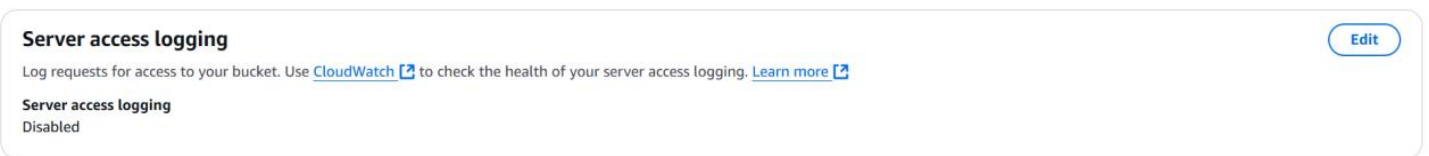
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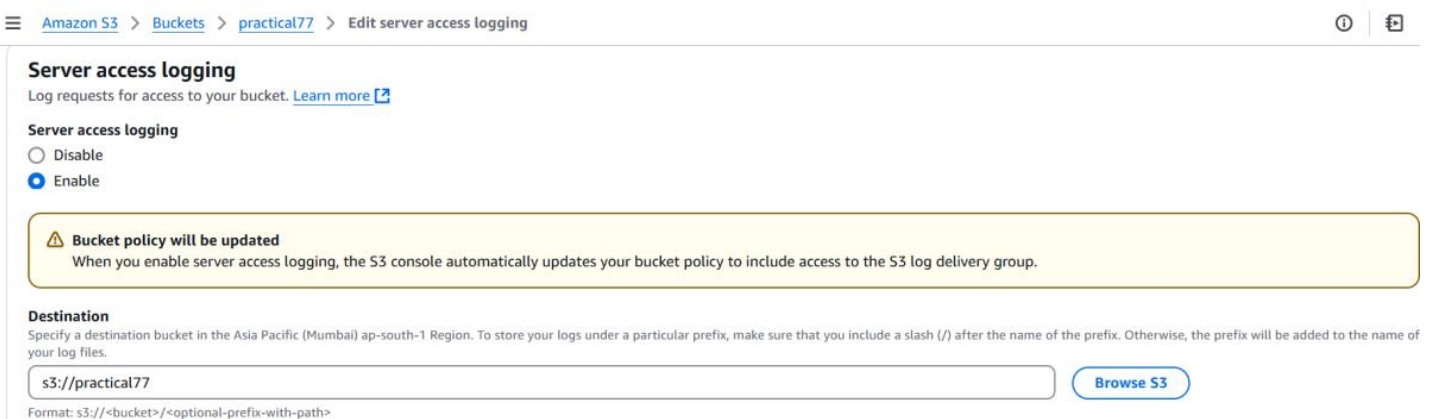
- From the S3 dashboard, click on the name of the bucket.



- Go to properties tab
- Enable the server access logging and select the bucket under Destination.



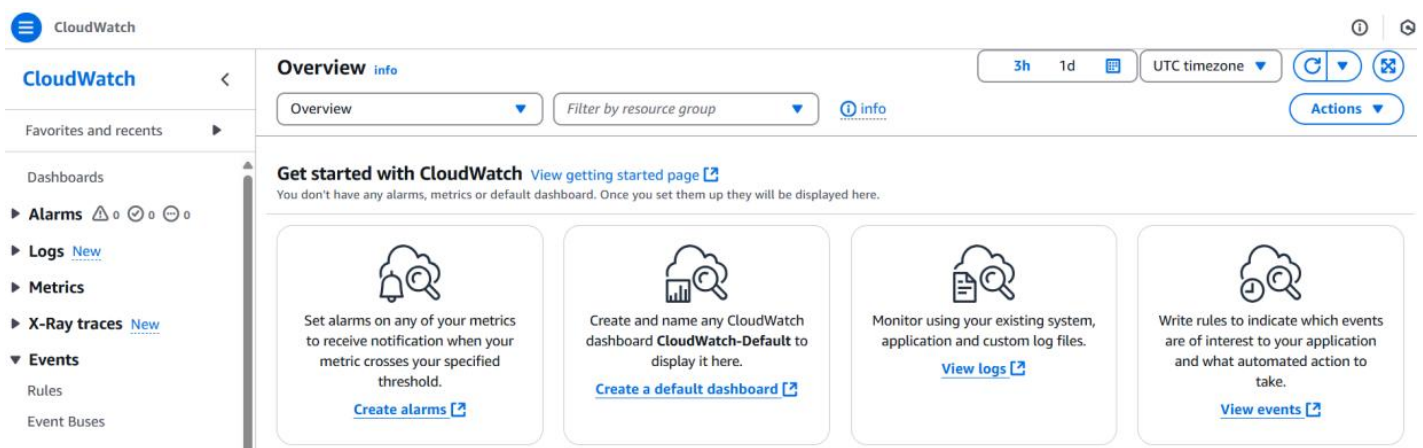
- Enable the server access logging and select the bucket under Destination.



- Click save changes.

## STEP 2:

- Navigate to Cloudwatch
- In the left sidebar of CloudWatch, Click on Rules under Events section



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## 3. Click on Create Rule

**Rules** [Refresh](#) [Delete](#) [Enable](#) [Edit](#) [CloudFormation Template](#) [Create rule](#)

[Any status](#) [< 1 >](#) [Settings](#)

<input type="checkbox"/>	Name	Status	Type	ARN	Description
No rules No rules to display.					

[Create rule](#)

## 4. Give the name of the rule and click next

### Rule detail

#### Name

Maximum of 64 characters consisting of numbers, lower/upper case letters, -, and \_.

## 5. Under Event Source, Choose event source as AWS Services, AWS services as S3 and Event type as All Events.

### Event type

The type of events as the source of the matching pattern

[All Events](#)

## 6. In the event pattern, you need to specify the S3 bucket you want to track. Add the JSON filter and click next.

### Event pattern [Info](#)

#### Event pattern

Write an event pattern in JSON. You can test the event pattern against the sample event. You can also go to pre-defined pattern.

[Prefix matching](#) [Insert](#) ☐ Content-based filter syntax

```
1 {
2   "source": ["aws.s3"],
3   "detail-type": ["AWS API Call via CloudTrail"],
4   "detail": {
5     "eventSource": ["s3.amazonaws.com"],
6     "eventName": ["PutObject"],
7     "requestParameters": {
8       "bucketName": ["practical7"]
9     }
10  }
11 }
12 }
```

## 7. Select the target type as SNS and give topic name (if there is no SNS topic create one and confirm the subscription through email) and click next and create rule.

### Select a target [Info](#)

Select target(s) to invoke when an event matches your event pattern or when schedule is triggered (limit of 5 targets per rule)

[SNS topic](#)

#### Topic

[newtopic](#) [Refresh](#)

## 8. If it worked then you will get the notification on your Email if you perform any event on S3.

This setup ensures your S3 bucket activities are logged and monitored with real-time alerts for new uploads.