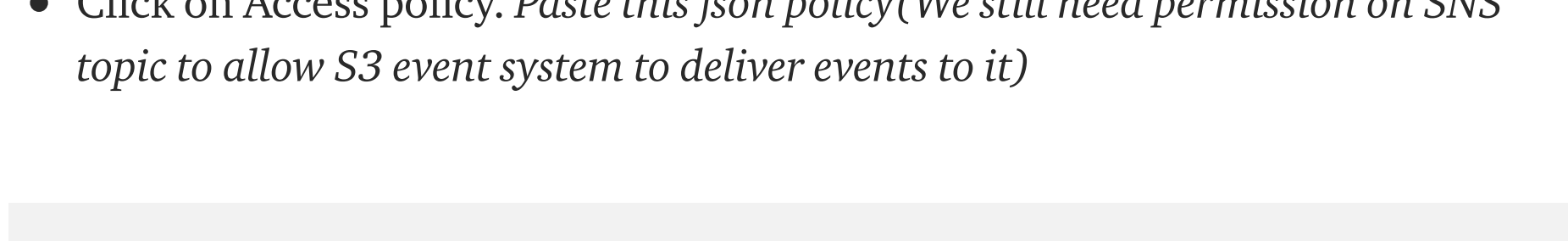


Just to re-iterate the same thing S3 events work at the object level, so if something happens to the object, in this case, maybe PUT, POST, COPY or DELETE then the event is generated and that event will be delivered to the target(SNS, SQS or LAMBDA)

## To Configure S3 events

- First, go to the SNS topic <https://us-west-2.console.aws.amazon.com/sns/v3/home>

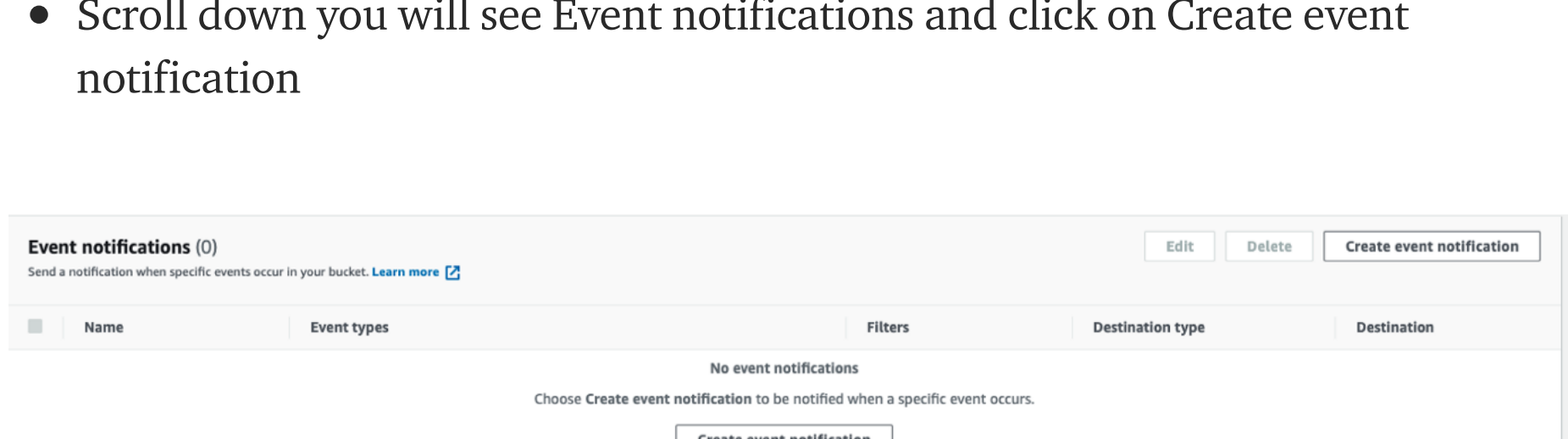
- Select the SNS topic and click on Edit



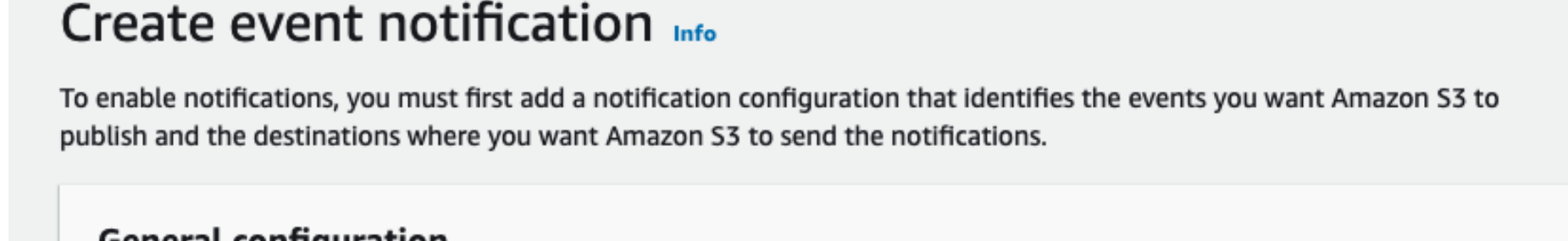
- Click on Access policy. Paste this json policy(We still need permission on SNS topic to allow S3 event system to deliver events to it)

```
{
  "Version": "2008-10-17",
  "Id": "default_policy_ID",
  "Statement": [
    {
      "Sid": "default_statement_ID",
      "Effect": "Allow",
      "Principal": {
        "AWS": "*"
      },
      "Action": [
        "SNS:SetTopicAttributes",
        "SNS:GetTopicAttributes",
        "SNS:AddPermission",
        "SNS:RemovePermission",
        "SNS:DeleteTopic",
        "SNS:Subscribe",
        "SNS:ListSubscriptionsByTopic",
        "SNS:Publish",
        "SNS:Receive"
      ],
      "Resource": "arn:aws:sns:us-west-2:XXXXXX:my-test-topic", <---SNS topic
    },
    {
      "Condition": {
        "ArnLike": {
          "AWS:SourceArn": "arn:aws:s3:::XXXXXX" <---S3 Bucket ARN
        }
      }
    }
  ]
}
```

- Go to S3 console <https://s3.console.aws.amazon.com/s3>
- If you have an existing bucket, click on the bucket and go to Properties



- Scroll down you will see Event notifications and click on Create event notification



- Give your event some name

Create event notification

General configuration

Event name

s3notification

Event name can contain up to 255 characters.

Prefix - optional

Limit the notifications to objects with key starting with specified characters.

Images/

Suffix - optional

Limit the notifications to objects with key ending with specified characters.

.jpg

- Under Event types, select Permanently deleted

Object removal

☐ All object removal events  
s3:ObjectRemoved:\*

☒ Permanently deleted  
s3:ObjectRemoved:Delete

☐ Delete marker created  
s3:ObjectRemoved:DeleteMarkerCreated

- Under Destination select the SNS topic. Click on Save changes

Destination

Before Amazon S3 can publish messages to a destination, you must grant the Amazon S3 principal the necessary permissions to call the relevant API to publish messages to an SNS topic, an SQS queue, or a Lambda function. Learn more

Destination

☐ Lambda function  
Run a Lambda function script based on S3 events.

☒ SNS topic  
Send notifications to email, SMS, or an HTTP endpoint.

☐ SQS queue  
Send notifications to an SQS queue to be read by a server.

Specify SNS topic

☒ Choose from your SNS topics

☐ Enter SNS topic ARN

SNS topic

my-test-topic

- Now go to your S3 bucket and try to delete a file

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