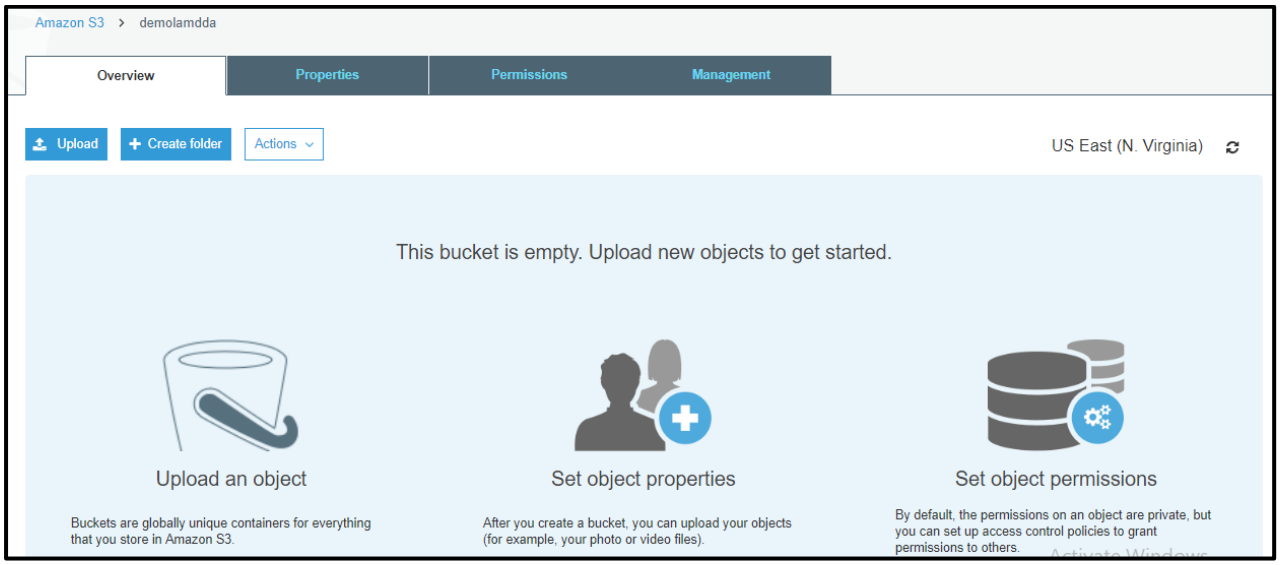
Module 6: Automate Monitoring And Event Management In AWS

Demo Document 3

Send an email when an object is added to S3 through Lambda

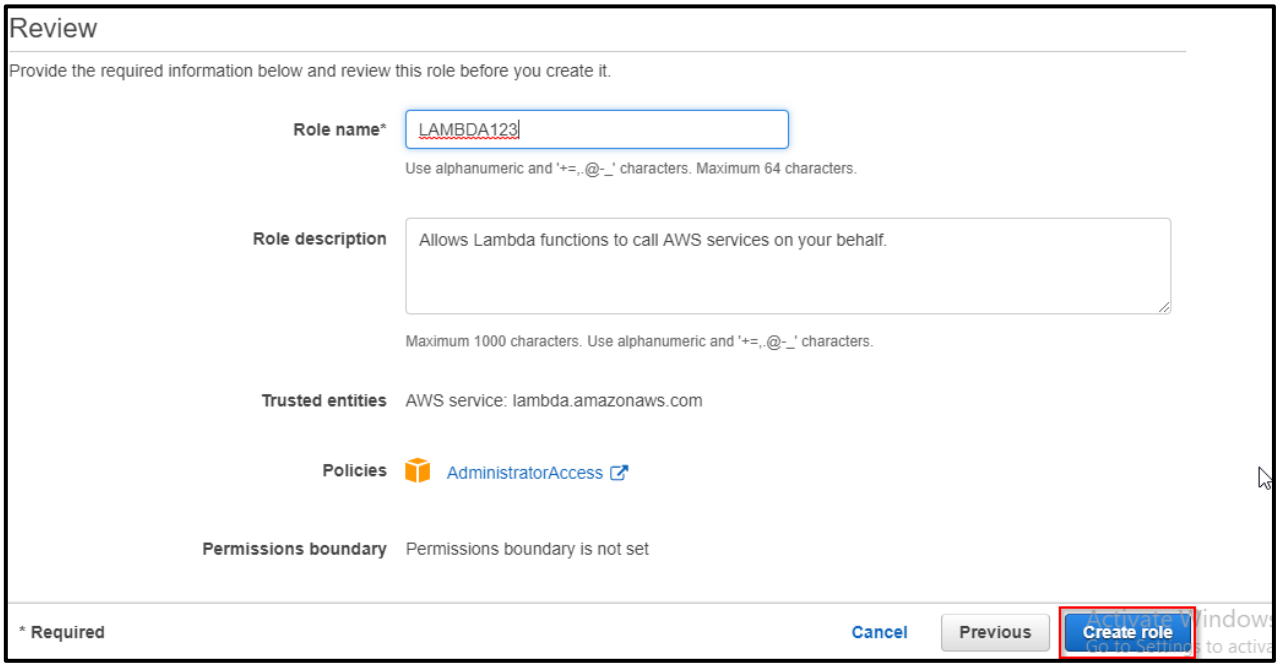
Demo steps:

Step1: Create A Bucket



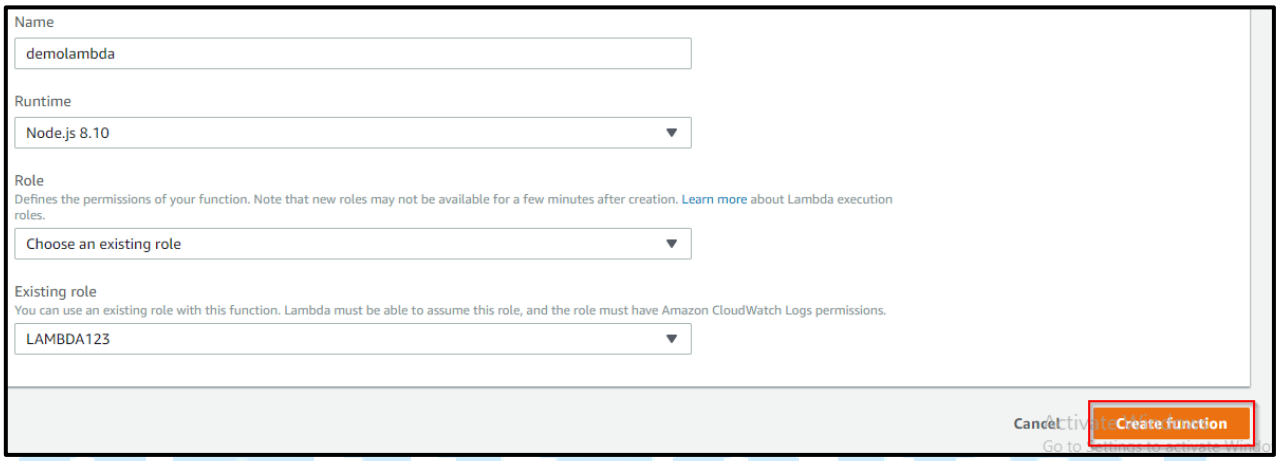
Step2: Create an IAM role

- In IAM dashboard, select on roles and click on **create roles**
- In services, choose lambda and click on **permission**
- Choose administrator access and click on **review**
- Give a name for your role and click on **create role**



Step3: Create a lambda function in the same region as the bucket

- In your management console, search for lambda service and select it
- Click on create lambda function
- Select author from scratch
- Give a name for lambda function
- Choose runtime as node.js 8.10
- In role, choose an existing role and select the name which you have created in pervious step
- Click on **create function**



Step 4: Type the below code in your lambda function and save it

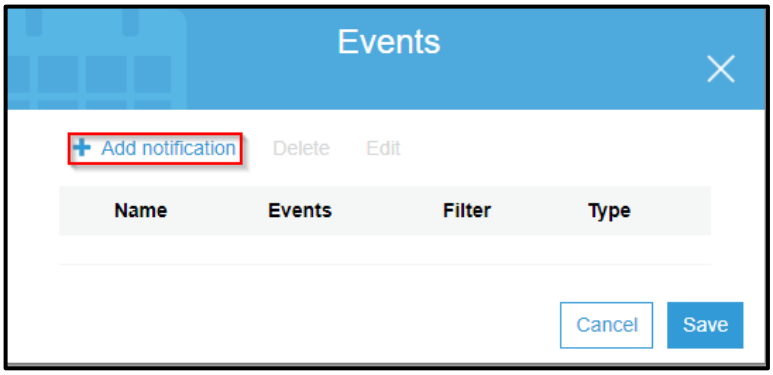
```
var aws = require('aws-sdk');
var ses = new aws.SES({
  region: 'us-east-1'
});
exports.handler = function(event, context) {
   console.log("Incoming: ", event);
  // var output = querystring.parse(event);

   var eParams = {
      Destination: {
         ToAddresses: ["ishwarya.a@edureka.co"] //give the email ID which is verified by SES
      },
```

```
Message: {
        Body: {Text: {
            Data: "lambda is working"
          }
        },
        Subject: {  Data: "mail from ses"}
    },
    Source: ishu8297@gmail.com  //give the email ID which is verified by SES
  };
 console.log('===SENDING EMAIL===');
  var email = ses.sendEmail(eParams, function(err, data){
    if(err) console.log(err);
    else {
        console.log("===EMAIL SENT===");
        console.log(data);
         console.log("EMAIL CODE END");
        console.log('EMAIL: ', email);
        context.succeed(event);
    }
  });
};
```

Step 5: Add events in your buckets

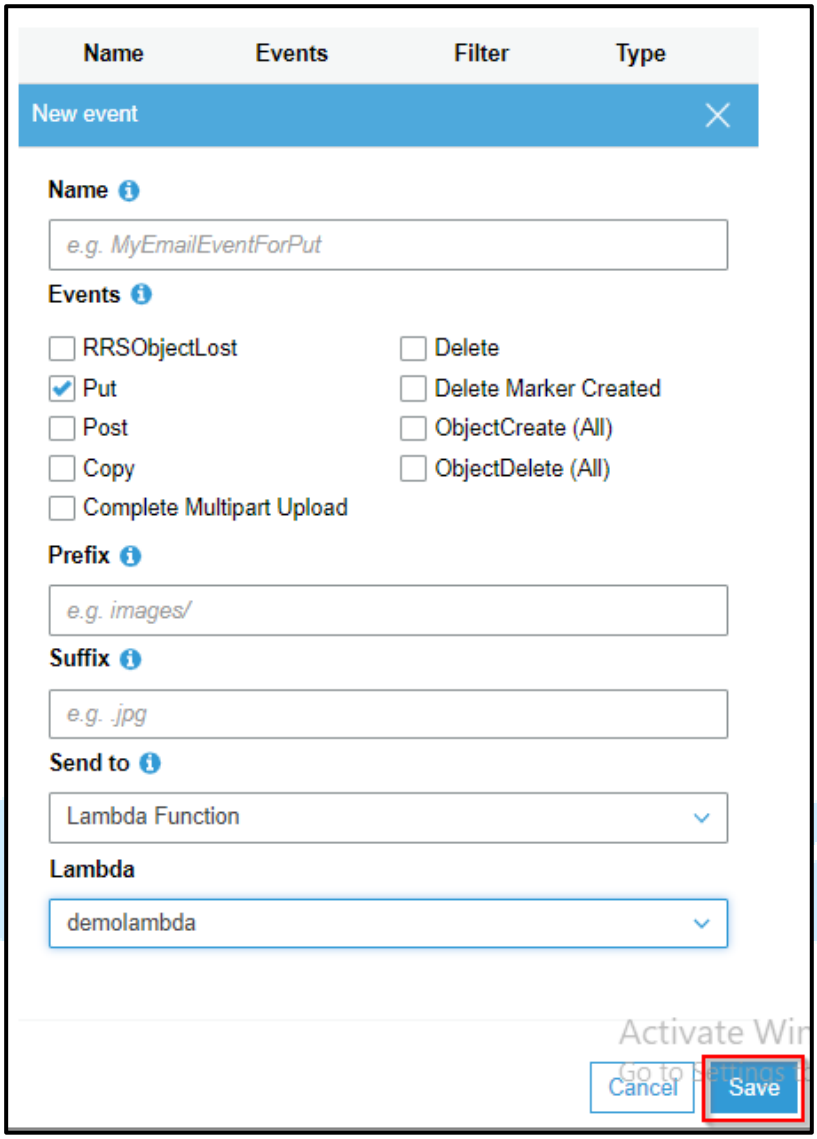
- In properties, select **Events**

- Click on **add notifications**



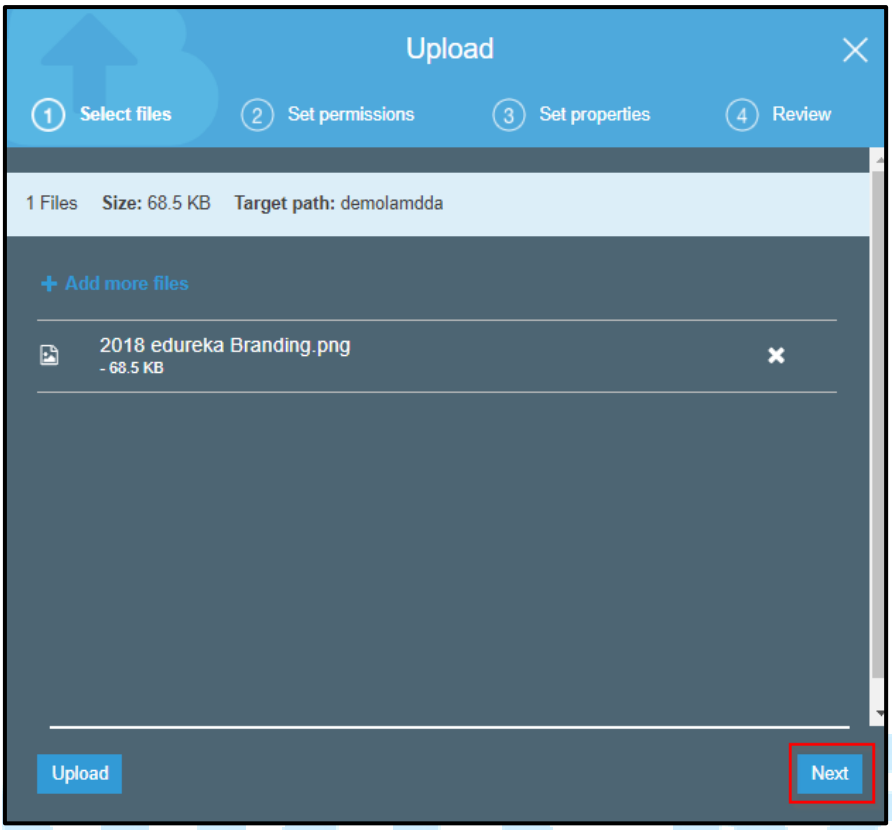
- Select an event and under send to select lambda function

- In lambda, choose the lambda function you have created and **save it**



Step 6: Test the lambda function

- Upload an object to S3



- Check whether you have got an email