**IAM Role**

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* In IAM role we will add policy to services
* Lambda service is use for log creation
* We link two services with the help of IAM Role
* Policy is set inside Role
* An IAM role is an IAM identity that you can create in your account that has specific permission
* One AWS service can all another AWS services on behalf of ou
* Use of IAM Role is used as an interaction between two services
* Lambda is a service which works through a function
* Go to lambda
  + Click create function
  + Given function name
  + Select language (python) in runtime
  + Create function
* Lambda function is used for automation scripting
* As soon as lambda function is triggered then it will give notification

**Create Role**

* Go to roles (In IAM service)
* Click create role
* Select AWS service
* In use case
  + Select lambda
* Click next
* In permission policies
  + Serach 🡪 Exec
  + Select AWSlambdaBasicExecutionRole policy
* Click next
* In role details
  + Role name 🡪 S3 triggers
* Click create role

**Create S3 Bucket**

* Open S3 in new tab
* Create bucket

**Create lambda function**

* Click create function
* Select language
* In charge default execution
  + Select use an existing Role
  + In dropdown select our S3-trigger role
* Click create function
* Click Add trigger
* In trigger config
  + Select source --. S3
  + Select our bucket
  + Click I acknowledge
* Click Add

**Upload files in Bucket**

* Upload some files in our bucket
* Go to lambda function
* Go to monitor tab
* Go to cloud logs or cloud watch
* We will get all the logs related to our uploaded file

**Add Destination in Lambda**

* For this SNS service is used
* Search SNS
  + Topic name 🡪
  + Click next
  + In type
    - Select standard
  + Click create topic
* In subscription
  + Click create subscription
  + Select topic ARN
  + In protocol select email
  + In EndPoint 🡪 <my\_email\_id>
  + Click create subscription
  + We will receive email
  + Open email
  + Confirm it
  + Refresh SNS page
  + Status 🡪 confirmed
* Go to lambda
  + Click add destination
  + In Destination configuration
    - Source 🡪 Asynchronus
    - Condition 🡪 on success
    - Destination type
      * Destination 🡪 <SNS Name>
    - On lambda page we will save destination now

Again upload something on bucket

**Que-1:** Create two S3 bucket named as prn\_lab and name\_lab, then create two lambda functions and attach roles to function for S3 bucket. Then add triggers for “”pdf” on “prn\_lab” bucket and “.jpg” on “name\_lab” S3 bucket. Create a SNS service and attach to destination of both function and show the logs from prn\_lab bucket and name\_lab bucket.

**Que-2:** create IAM user and create full access policy for S3, lambda, SNS and read, write policy for IAM service.

Create 2 buckets with unique name then create 1 lambda function attach roles to functions for S3 bucket. Add triggers for .txt file on first bucket and .png file on second bucket.

Create a SNS service and attach to destination of function and show the logs for buckets