AWS LAMDA

↳ It is a light weighted serverless
service.

↳ No infra setup is needed.

Ex: API Development

Server

Create Account

Request

Response

Client

function

Save Details

https://www.xyz.in/CreateAccount
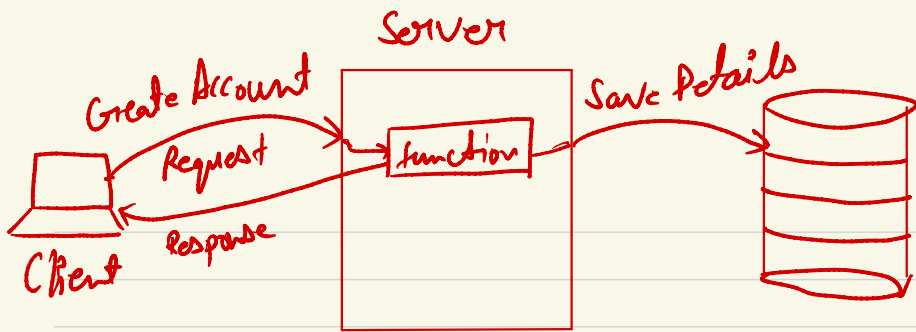
CreateAccount → mapped for function

↳ def create_account_fun (input):
{
======
======
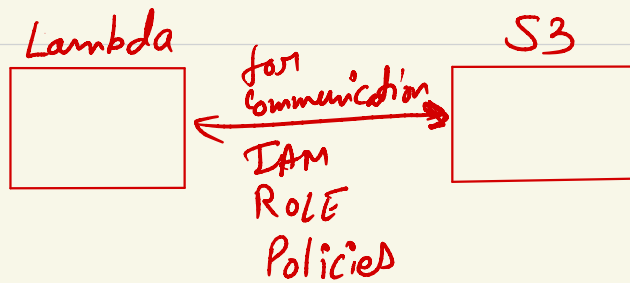======
}

IAM Role

↳ To restrict the service access
↳ When two services in the AWS want
   to communicate with each other
   then we need to declare few
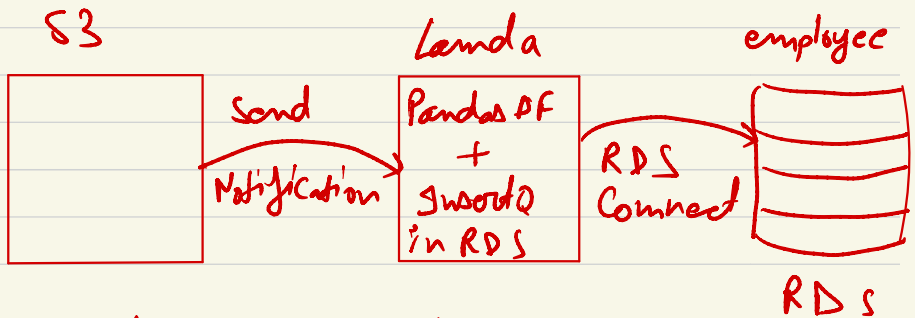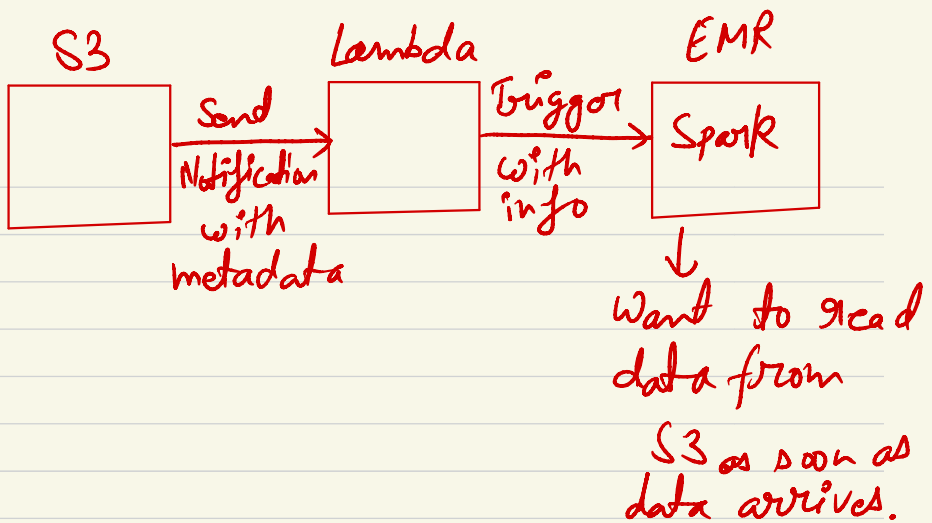   policies, which will act like
   a agreement.

AWS A/C

Admin → S3 Bucket

IAMR1
W.R.D → D1

IAMR2
W.R → D2

IAMR3
R → D3
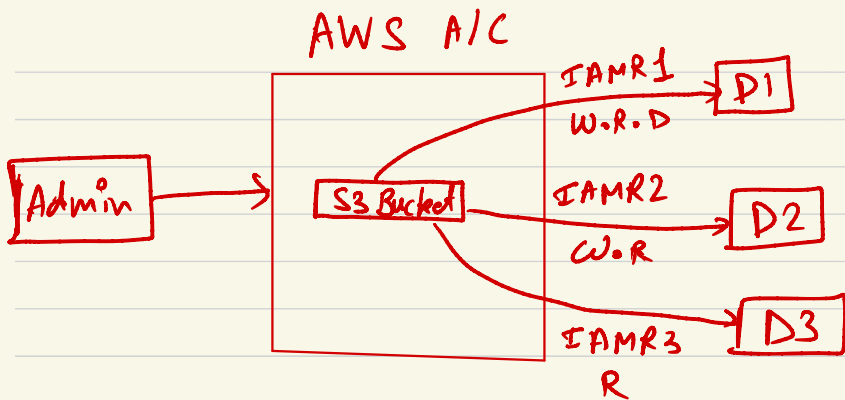
IAM USER → Different logins for each user.

IAM ROLE → Contains policies to access
              AWS resources.

Lambda   S3
┌──────────┐   for   ┌──────────┐
│   │◄─communication─►│   │
│   │   IAM   │   │
└──────────┘   RoLE   └──────────┘
               Policies

*) How to create event driven data pipeline ?

S3   Lambda   EMR
┌──────┐ Send ┌──────┐ Trigger ┌──────┐
│   │────────►│   │─────────►│ Spark│
│   │ Notification │   │ with   │   │
└──────┘ with   └──────┘ info   └──────┘
       metadata   │
                                     ▼
                              Want to read
                              data from

                              S3 as soon as
                              data arrives.

S3   Lamda   employee
┌──────┐   Send ┌──────────┐   ╭────────╮
│   │─────────►│ Pandas DF │   RDS   │   │
│   │ Notification │   +   │ Connect──►│   │
│   │   │ Insert   │   │   │
└──────┘   │ in RDS   │   ╰────────╯
                  └──────────┘   RDS

file-name = employee_YYYY_mm-dd.csv