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AWS S3
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- => S3 stands for simple storage service
- => S3 is used for unlimited storage
- => S3 works based on Object storage (object = file)
- => S3 is a paid service (for storing & for retrieving)
- => S3 maintains objects by using buckets concept
- => Buckets are used to separate objects logically.
- => In one Bucket we can store group of objects (no limitation).
- => When we upload object in the bucket then object url will be generated.

Ex:

Netflix is using AWS S3 buckets to store movies.

Amazon Prime is using AWS S3 buckets to store movies.

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Lab Task
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- 1) Create General purpose bucket
- 2) Give Unique Name for bucket
- 3) Select ACLs enable
- 4) Grant public access (uncheck check box)
- 5) Create Bucket
- 6) Go inside bucket and upload objects with public read access
- 7) Take Object URL and access that url in your browser.

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ðŸ”¥ *Today's Assignment* : SpringBoot with AWS S3 Integration

â€¦ Tech Stack : JAVA SpringBoot + Data JPA + H2 DB + AWS S3

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- 1) Develop one SpringBoot Web application to store course details
 - Course Name
 - Course Duration
 - Course Price
 - Course Image

Note: Course image should be stored into AWS s3 bucket and course info should be stored into db table

along with S3 Object URL.

Note: To implement this task we need AWS IAM user with S3FullAccess & Security Credentials (Programmatic Access) of IAM user.

Note: We need to use AWS SDK to perform this operation.

Double tap the msg and React if you need this project video and source code

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Static website hosting using s3
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-> Website means collection of web pages

-> Websites are divided into 2 types

1) static website

2) dynamic website

-> static website will give same response for all users

-> dynamic website will give response based on user

Note: Static website we can host in 2 ways

1) Using EC2 VM with HTTPD/Nginx server

2) Using S3 Bucket

Step-1 : Create S3 bucket

- Enable ACL
- Allow Public Access

Step-2 : Upload website files (index.html & error.html) as objects in bucket

- Grant public read access for the objects while uploading

Step-3 : Enable static website hosting

-> bucket -> properties -> Enable static website hosting

-> Configure index.html and error.html

Step-4 : Access website using URL

Ex: <http://ashokit937493.s3-website.ap-south-1.amazonaws.com>

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Route 53
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=> It is a DNS service in AWS cloud.

=> DNS stands for Domain Name System

Note: DNS runs on port number 53.

=> Route 53 is used to map our application with domain name.

Ex : www.gmail.com, www.naukri.com, www.ashokit.in

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Route 53 Lab Task
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@@@ *Domain Mapping Process Using AWS Route 53* :: <https://youtu.be/f7bfbUPSONI?si=tqr4jlHeF6pQXW4Z>

1) Check domain availability & place the order

Note: the domain price changes based domain extension

.link extension ==> 5 USD (least price)

2) Pay the amount for domain purchase

Note: Once the payment is completed then our domain gets activated.

3) Map application URL to domain name

4) Access our application using domain name.