- -main building block of AWS -'infinitely scaling' storage
- used as a backbone for many websites, in integration too EBS snapshots are also stored in S3

S3 Use cases -

- Backup and storage
- Disaster Recovery
- Archive
- Hybrid cloud Storage
- App hosting
- -Media hosting
- Data lakes L'Elata analytics
- Software delivery
- Static website

Buckets - filer are stored in 'buckets'
(dictionaries).

- -buckets must have globally unique name
- S3 looks like a global service but buckets are created in a region.
- -Naming convention-
 - 1) no uppercase
 - 21 no underscore
- 3) 3-63 chars long
- 4) Not an IP
- I must start with vowerage or number

what can u store

- Object (Files) hour a key
 - key is full Path.

prefix + object name.

- -There is no concept of directories within buckets.
- -just keys with very long names that contain '/'
- max size 5TB = 50004B
- -IF upwading >5 GB, multipart upload use.

metadata

tags - (unicode key Nal pair - up to 10) - used for security/ Nersian 10. Create a bucket - add objects

Note - if you open object, using object actions you will have a presigned url with us Aws creds so It opens.
but if u try using public url it will deny access unless you provide public access.

S3 Security - Bucket Policy.

User based: IAM policies - which API calls should be allowed for a specific user from IAM console

21 Resource based-

- Breket Policies: bueket wide rules from S2 consoleallows cross account.
- Object Access control List finer grain.
- Bucket Access control list less common

Note-an IAM wer can a cless 53 is IAM permissions allow it or resource policy allows it AND there is no explicit day.

3) Encryption: encrypt objects in Amazon S3 using encryption keys

S3 Bucket Policies-Json based policies

S3 bucket settings - were created to prevent company data leak

* Use policy generator to add policies
First disable all public access rettings.