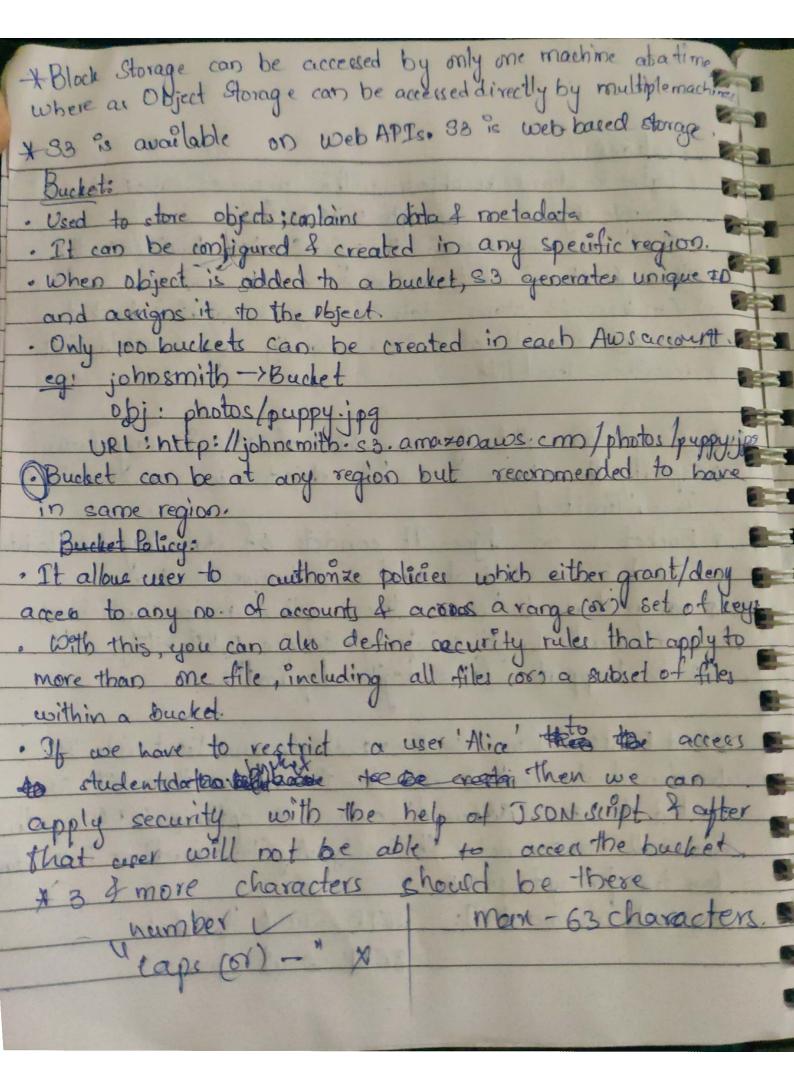
Test Amoms for Modules " single Az" will never be a right Anewer. Aws managed services should always be preferred & high availability are tderant everything will fail at some point accordingly We can use it to store & retrieve the date at (Fully Manged) any time, from anywhere on the web. Amazon S3: (Pay Per Use Policy) (Object Storage 31 03 2020 is an object storage service that offers E 3 leading scalability, data availability, security 4 performance 83 It is a service offered by Aws that provider objects storage through a web service interface It is storage for Storage Classes: 1. 83 standard: General-purpose storage of frequently accessed 2 S3 Intelligent. Tiering: for data with unknown (00) changing access patterns. 3. S3 Standard-Infrequent Access: for less frequently accessed date **E** 3 4.83 One Zone-IA: for less trequently accessed date **E**3 5-53 Glacier: Glacier Deep Archiverfor long-term archive & digital preservath. Description: 33 Standard: It offers bigh availability, durability & performance for frequently accessed date Features: Supports SSI for data in transit & excupt of data at Rest.

Bucket can contain no 5TB of lata Q. 83 Intelligent - Tiering Storage class: Designed to optimize costs by automatically moving data to most cost effective access tien without performance impact (or) operational overhead · Works by Storing objects in a drientiers. 18th aced optimized for FA. 8.83 Standard - Infrequent Access: It is Jos data that is accepted less frequently, but requires rapid action when new \$.33 one zone - PA: It is for data that is accessed less treques but requires rapid access when needed Unlike other storage clarges which store date in a min, amount of 8128, S3 one-zone-IA stores data in singlets and cests 20% less than 53. Etcuedaed. IA. 5. 83 Glabiers It is a secure, durable & low-cost storage class for data archiving Supports SSL for data in transit f cocrypt of data at rest *Because S3 me-Zone-IA stores data in a simple AWX -AZ, data stored in this storage class will be bot in the event of Az dectruct? H Glavier is imp. for longterm storage & archiver files cheap.

teatures: + Data & stored as objects within recourses called "buckets" & single object can be upto 5 TB in sixe. + Objet an be accessed through S3 Acress Points / directly through the bucket bostbame. -) Amoron S3 stores data as objects within buckets. . An object consists of a file & optionally any metadata that describes the file. + We can store virtually any wind of data, in any format

- capacity, the volume & no. of objects we can store in so is unlimited * Bucket is an objec. It consists of data, key & metadal * Bucket is a logical unit of storage in 53 4 parameters to chose the optimal region: pricing: veer/client bocat? : Latency; Service Availability. 33 has/supports "Cross Region Replecat": Cloud Front: Caching Service: Data from client eide is transferred to nearest edge local Afrom there it is routed to Aws & Bbucket, over an optimized new path, Snowball: Franster data Physically; Avg. TurnAroundTime is 5-7day 3 lan transfer up to 75 TB 3 costi of Snowbell: 50TB: 2006 & Fred 3 801B: 2503 3



Reduced Redundancy Storage (RRS): Cheaper than Standards * Stores non-critical, reproducible data at lower levels of redundancy than S3's standard storage.

+ High durability & availability 99.994. of objetulyn

Standard-99.7999999999 . storel objects in multiple devices across multiple factors but doesnot replicate objects. Cross Region- Replicat? * It is a bucket-level teature that enables automatic, asynchronous copying of abjects across buckets in diff. Awa * replicas in destinat bucket - replicas in source bucket.

Aws werer copies data across regions but we can do it Versioning: Keeping multiple variants of obj in same bucker.
It can restore objects from deletion. of thow can't access like in my S3 bucket through my A! 83 objects can be accessed being http from anywhere, as long you have permissions. Access: a) browsers goto util of object e) Aws ELI: commands on your Ecoto put (or) get

* Do you need to write John for enforcing policies (a) Is there a GUI for managing security within Aws?

A. There is a policy generator toll to generate the Json + 88 is cheaper More than 100 ommon use Scanarios I Backap & Storage

* A Cloud Fermontion: all resources Mby: manage, create & provision 1 at single place. A complex applicat on Aws can have many resources and managing all these resources can be a mundance tack. what: model & setup aux resources Cloud Formation is a gervice that helps you model & setup your Aws resources so that you can spend less time managing those resources & moretime focusing on your 3 applications that run in Aws. We can create templates. which is used to create as many copies as we want famy region). 3 For creating templates we use Ison script JSON- Trascript Object Notat? 3 It is an open-standard Format that uses human readable text to transmit data objects consisting of 3 attribute - value pests. Structure: Fields AWS cloud Format scumple Aws Template Format Version -lemplates demonstrate 3 Descript how you can create 4 Metadata templates for various 3 Parameters cises. 3 Mappings (dependencies) Conditions Outputs "Hame of bucket" Type!

IAM: Identity - Access Management (Asymmetric 18 Encrypt) Why?
Giving specific voles that they decerve Dermissions to different users who using the earne Aws account that we have created It is a webservice that helps you securely control to and to AMS recources for your ucess. You use PAM and and who can we your Awsresources (authentian) and what resources they can use 4 in what ways (a urthorizant). Components of TAM (4):1. Users 3. Roles 2. Groups 4. Policie Using JAM, we can create & manage Aws week, and use permissions to allow & deny their access to Aws remissions to allow & deny their access to 1. Users "Nusers have used to give permissions to someone.

Any wer who wants to acces your Aws account has to be added in DAM offer & then you can attach policies: Arrighed to people.

and secret access key for Aws API, CLI, 3 DX & other -V development tools 3 allows users to sign-in to Aws Management uncole. 1 2. Groups: The users created can do be devited among groups, & then the rules & policies that apply on the group, apply on the user level as well 3. Roles: Are assigned to applicat?

An IAM sole se an IAM entity that defines a set of permissions for making Aws service requests.

These are not associated with a specific used group. 4. Policies: nothing put permissions.

To assign permissions to a user, group, role or resource
you can create a policy, which is adocument that
explicitly lists permissions. Mutti-Factor Authenticat (MFA): Same as OTP procedure 2 layer of security: paerword