

Questions	Notes
The bigger picture	 companire today need to collect, storeand analyze the data they've accumulated over the years on a massive scale. storage services in the cloud provide a place for companies to store data.
Let's take a look closer	 you can set security at the bucket level or individual object level using access control lists (ACLs), bucket policies, or access point policies you can use s3 access logs to track the access to your buckets and objects you can enable versioning to create multiple versions of your file in order to protect against accidental deletion and to use previous version s3 is a regional service, but bucket names must be globally unique.
Data Accessibility	 Durability and availability are 2 very diff aspects of data accessibility Durability: is important so your objects are never lost or compromised_amazon s3 designed for 99.9999% of durability Availability is important so you can access your data quicklyt when you need it_Amazon s3 standard is designed for 99.9999% availability.
s3 standard	 general purpose storage data stored across multiple AZ Low latency and high throughput Recommended for: Frequently accessed data D=99.99999% A=99.99%
s3 intelligent-Tiering	 Automatically moves your data to the most cost-effective storage class automatic cost savings No retrieval fees data stored across multuple AZ. Recommended for: data with unknown or changing access pettern like a data lake, new application D=99.99999% A=99.99%
S3 standard-Infequent access	 data accessed les frequently but requires rapid access data stored across multiple AZ cheaper than s3 standard Recommended for: long-lived data Infrequently accessed Millisecond access when needed
S3 one zone -Infequent ACCess (IA)	 like S3 standard-IA but data stored in a single AZ costs 20% less than S3 standard-IA data stored in this storage class can be lost Recommended for: re-creatable data Infrequently accessed with millisecond acess Availibilty and durability not essential
S3 Glacier	 Long-term Data storage and archival for lower costs Data retrieval Takes longer 3 retreival options: 1-5 minutes, 3-5 hours, or 5-12 hours data stored across multiple AZ. Recommended for: long term backups cheaper storage option
S3 Glacier deep archive	

Durability of 99,9999%No availability	
S3 Outposts	 Provides Object storage On-premises A single storage class store data across multiple devices and servers Recommended for: data that needs to be kept local Demanding application performance needs
S3 in the real world	 Static websites: Deploy static websites to s3 and use Cloudfront for global distribution data archive: Archive datta using amazon Glacier as a storage option for amazon s3 mobile apps:Mobile apps users xan upload files to an Amazon s3 bucket analytics systems: store data in amazon s3 for use with analytics service like Redshift and athena

Résumé

• S3: is a regional service but has a global namespace

• Like S3 glacier but longer access times

• cheapest of all S3 options

• Recommended for:

• Data stored across multiple AZ

• 2 retrievel Options : 12 hours or 48 hours

Long-term data archival accessed once twice a year
 retraining data for regulatory compliance requirements

• S3 offers unlimited sstorage with many storage classes .Understand the use cases for each storage class