

S3 Object Lock & Glacier Vault Lock



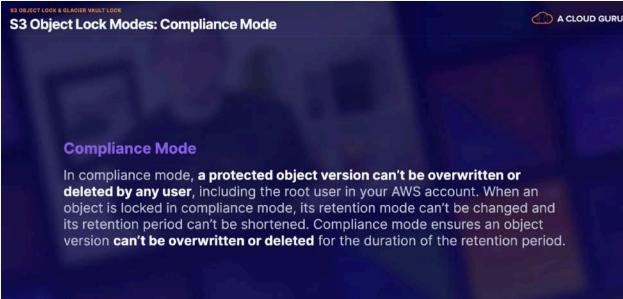
What Is S3 Object Lock?



You can use S3 Object Lock to store objects using a **write once, read many (WORM)** model. It can help you prevent objects from being deleted or modified for a fixed amount of time or indefinitely.

You can use **S3 Object Lock** to meet regulatory requirements that require WORM storage, or add an extra layer of protection against object changes and deletion.





Retention Periods

Retention Periods

A retention period protects an object version for a fixed amount of time. When you place a retention period on an object version, Amazon S3 stores a timestamp in the object version's metadata to indicate when the retention period expires. After the retention period expires, the object version can be overwritten or deleted unless you also placed a legal hold on the object version.



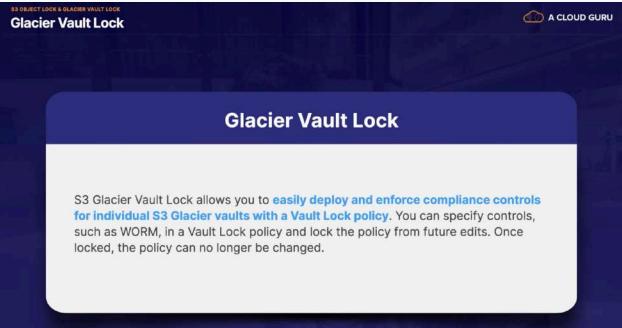
3 OBJECT LOCK & GLACIER VAULT LOCK

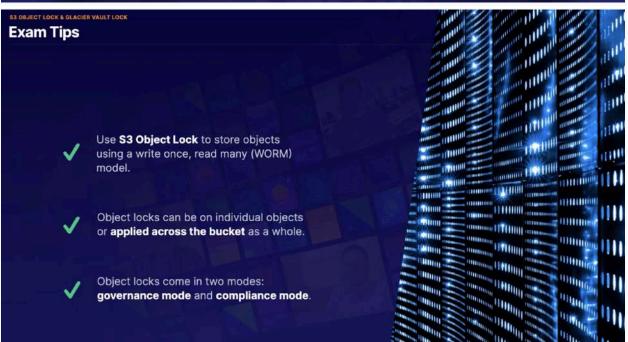
Legal Holds

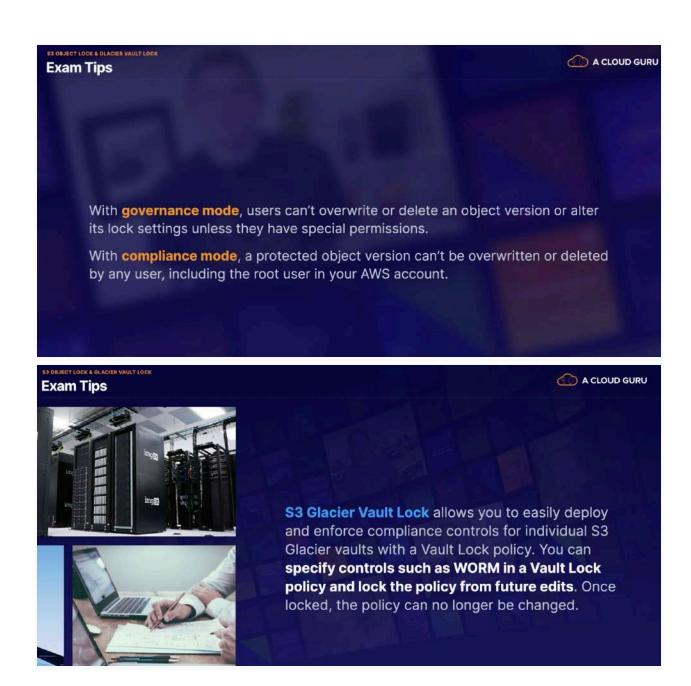


Legal Holds

S3 Object Lock also enables you to place a legal hold on an object version. Like a retention period, a legal hold prevents an object version from being overwritten or deleted. However, a legal hold doesn't have an associated retention period and remains in effect until removed. Legal holds can be freely placed and removed by any user who has the s3:PutObjectLegalHold permission.







S3 Performance [SAA-C02]









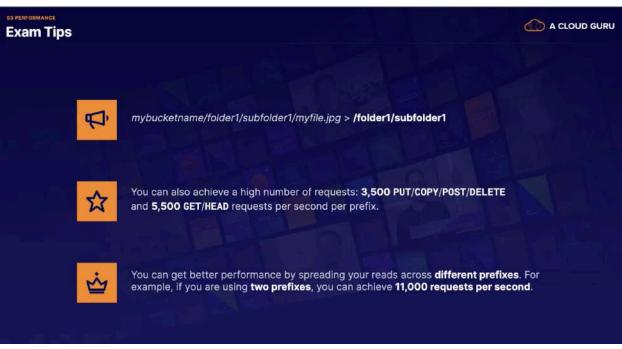


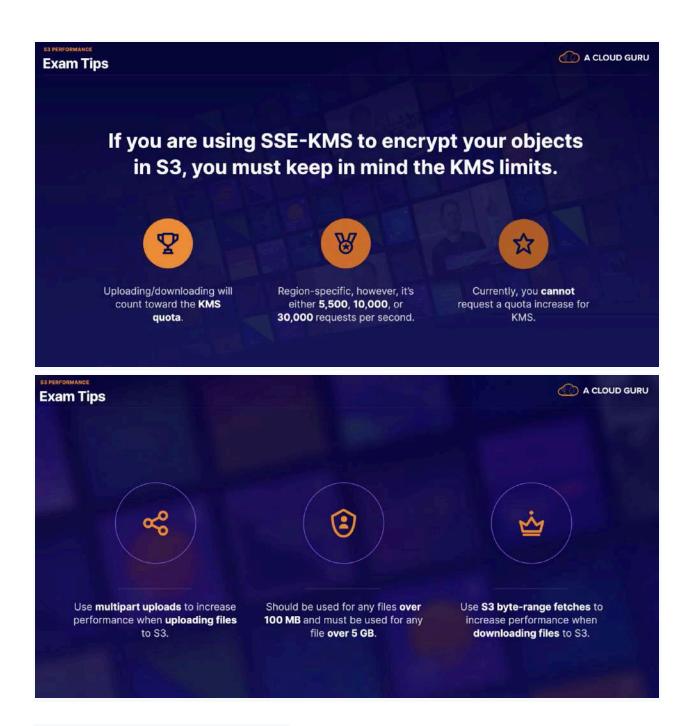








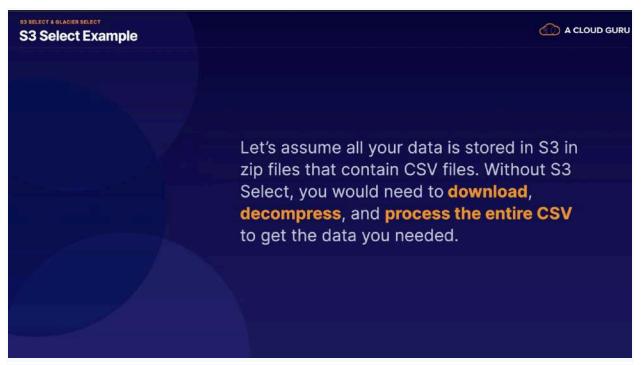




S3 Select & Glacier Select [SAA-C02]







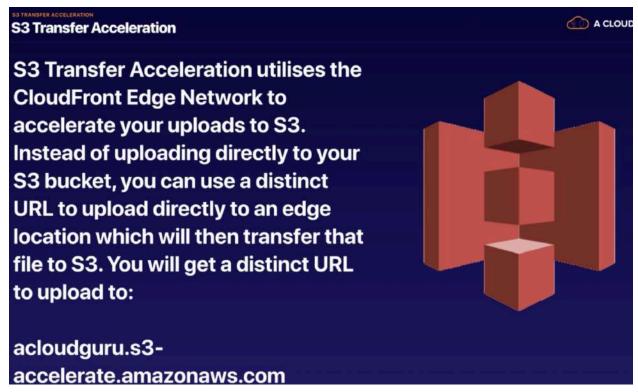


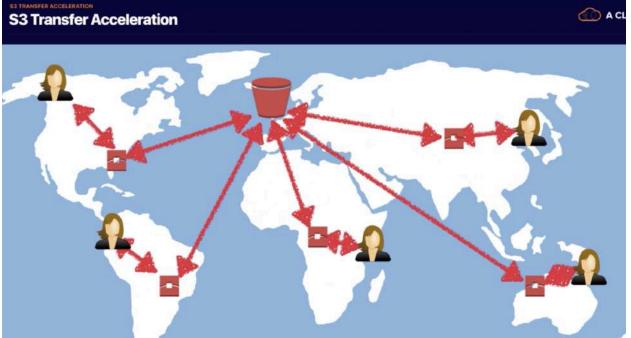








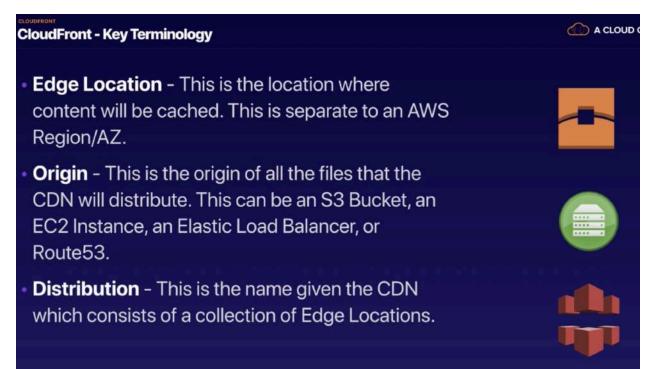




CloudFront Overview

What is CloudFront? A content delivery network (CDN) is a system of distributed servers (network) that deliver webpages and other web content to a user based on the geographic locations of the user, the origin of the webpage, and a content delivery

server.





What is CloudFront?

Amazon CloudFront can be used to deliver your entire website, including dynamic, static, streaming, and interactive content using a global network of edge locations. Requests for your content are automatically routed to the nearest edge location, so content is delivered with the best possible performance.



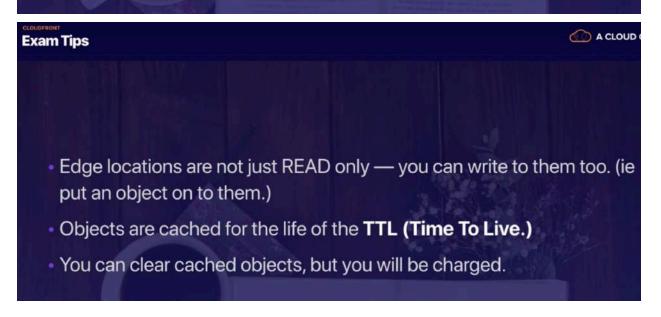
CLOUDERONT

CloudFront - Key Terminology

- Web Distribution Typically used for Websites.
- RTMP Used for Media Streaming.

Exam Tips A CLOUD GURU

- Edge Location This is the location where content will be cached. This
 is separate to an AWS Region/AZ.
- Origin This is the origin of all the files that the CDN will distribute. This
 can be either an S3 Bucket, an EC2 Instance, an Elastic Load Balancer,
 or Route53.
- Distribution This is the name given the CDN which consists of a collection of Edge Locations.
- Web Distribution Typically used for Websites.
- RTMP Used for Media Streaming.



CloudFront Lab

- **Edge Location** This is the location where content will be cached. This is separate to an AWS Region/AZ.
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Exam Tips • Edge locations are not just READ only — you can write to them too. (ie put an object on to them.) • Objects are cached for the life of the TTL (Time To Live.)

You can invalidate cached objects, but you will be charged.

Snowball



Snowball is a petabyte-scale data transport solution that uses secure appliances to transfer large amounts of data into and out of AWS. Using Snowball addresses common challenges with large-scale data transfers including high network costs, long transfer times, and security concerns. Transferring data with Snowball is simple, fast, secure, and can be as little as one-fifth the cost of high-speed Internet.



Snowball comes in either a 50TB or 80TB size. Snowball uses multiple layers of security designed to protect your data including tamper-resistant enclosures, 256-bit encryption, and an industry-standard Trusted Platform Module (TPM) designed to ensure both security and full chain-of-custody of your data. Once the data transfer job has been processed and verified, AWS performs a software erasure of the Snowball appliance.



AWS Snowball Edge is a 100TB data transfer device with on-board storage and compute capabilities. You can use Snowball Edge to move large amounts of data into and out of AWS, as a temporary storage tier for large local datasets, or to support local workloads in remote or offline locations.



Snowball Edge connects to your existing applications and infrastructure using standard storage interfaces, streamlining the data transfer process and minimizing setup and integration.

Snowball Edge can cluster together to form a local storage tier and process your data on-premises, helping ensure your applications continue to run even when they are not able to access the cloud.







AWS Snowmobile is an Exabyte-scale data transfer service used to move extremely large amounts of data to AWS. You can transfer up to 100PB per Snowmobile, a 45-foot long ruggedized shipping container, pulled by a semi-trailer truck. Snowmobile makes it easy to move massive volumes of data to the cloud, including video libraries, image repositories, or even a complete data center migration. Transferring data with Snowmobile is secure, fast and cost effective.