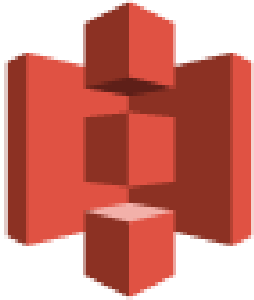


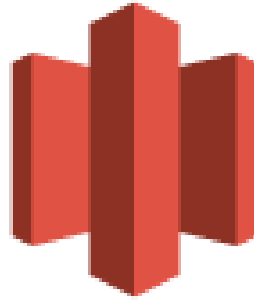
Understanding and Configuring Amazon S3 and CloudFront



Storage and Archive



Amazon S3



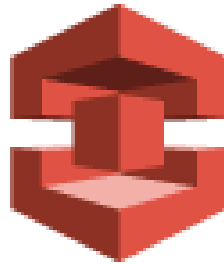
Amazon Glacier



Amazon EBS



Amazon EFS



AWS Import/Export

AWS Snowball



AWS Storage
Gateway

Amazon S3 Storage Classes



Amazon S3

	Standard	Standard - IA	RRS	Glacier
Durability	99.9999999999%	99.9999999999%	99.99%	99.9999999999%
Availability S L A	99.9%	99%	99.9%	N/A
Designed for availability	99.99%	99.9%	99.99%	N/A
Lifecycle	Yes	Yes	Yes	Yes
Retrieval fee	N/A	Per G B	N/A	Per G B
Min object size	N/A	128KB	N/A	N/A
Min storage duration	N/A	30 days	N/A	90 days
Max object size	5TB	5TB	5TB	N/A
Max archive size	N/A	N/A	N/A	4TB
Facility loss tolerance	2	2	1	1

Amazon S3 Features

Versioning

Cross-region
replication (CRR)

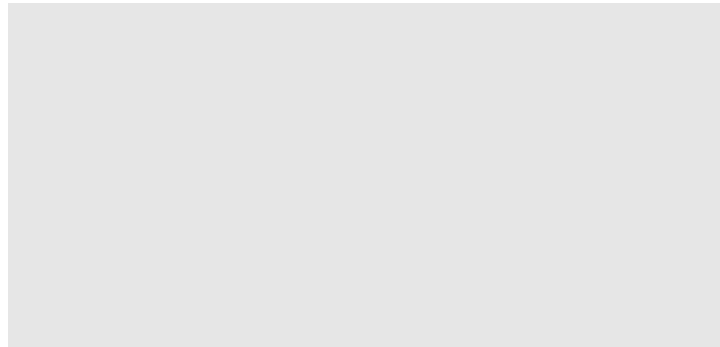
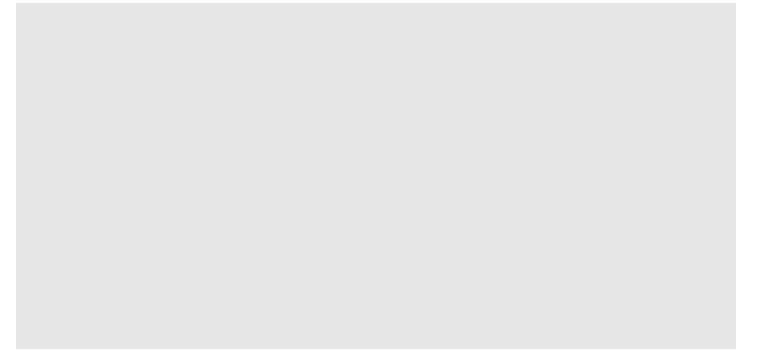
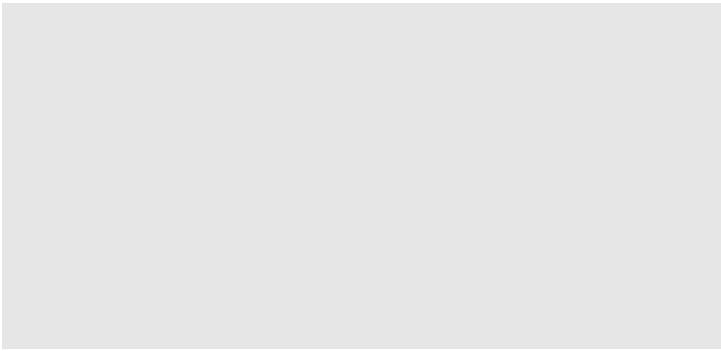
Data lifecycle
management

MFA delete

Permissions

Time-limited
access to objects

Securing Amazon S3



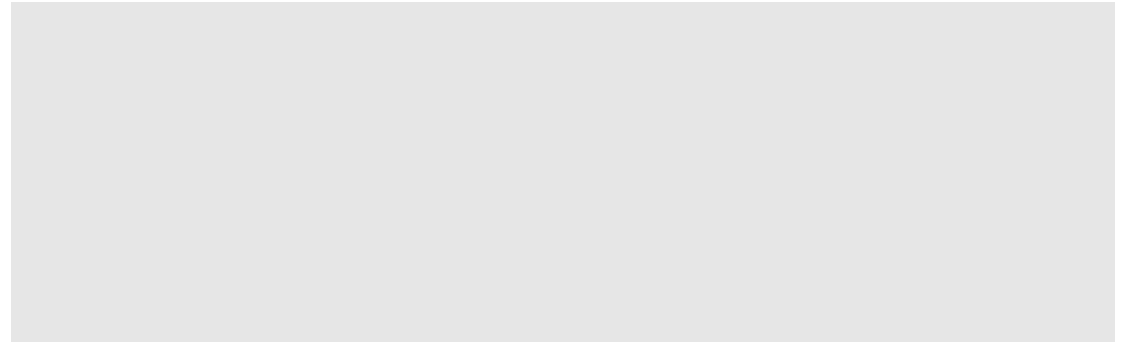
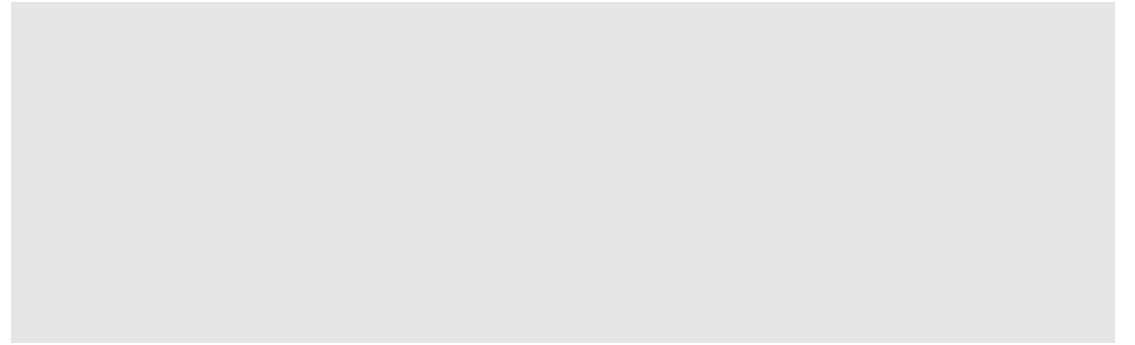
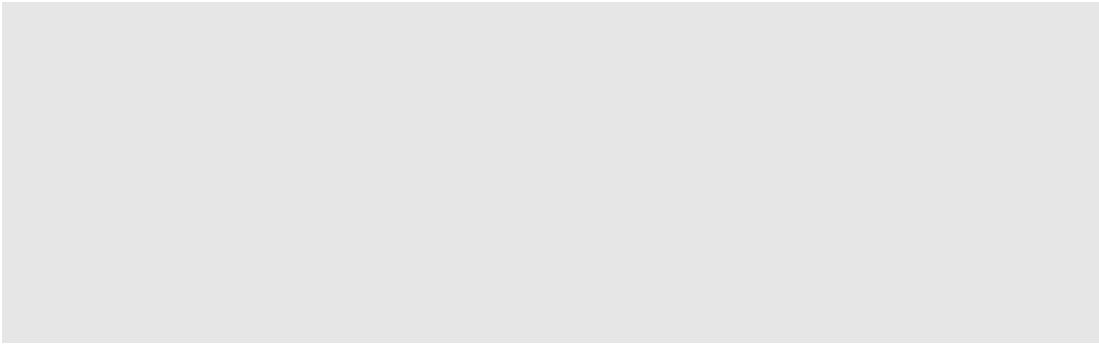
Amazon Glacier

Up to 1,000 vaults
per account

Individual archives
can be from 1byte
to 40 terabytes

Integrates with
Amazon S3
lifecycle policies

AWS Storage Gateway



Suggested Reading

AWS Storage Options:

https://media.amazonwebservices.com/AWS_Storage_Options.pdf



CloudFront

Used to deliver an entire website using a global network of edge locations

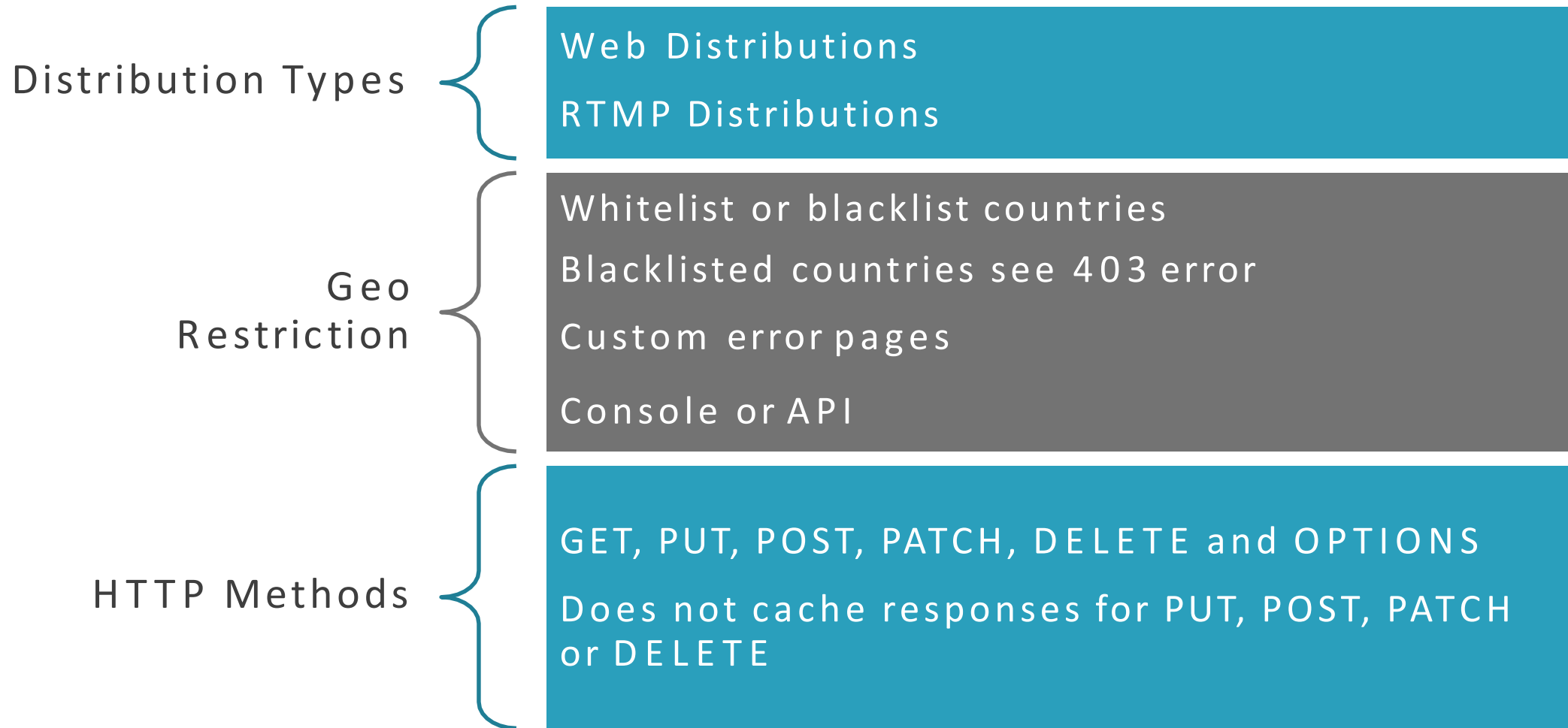
- Dynamic, static, streaming, interactive

Requests for content is automatically routed to the nearest edge location for best possible performance

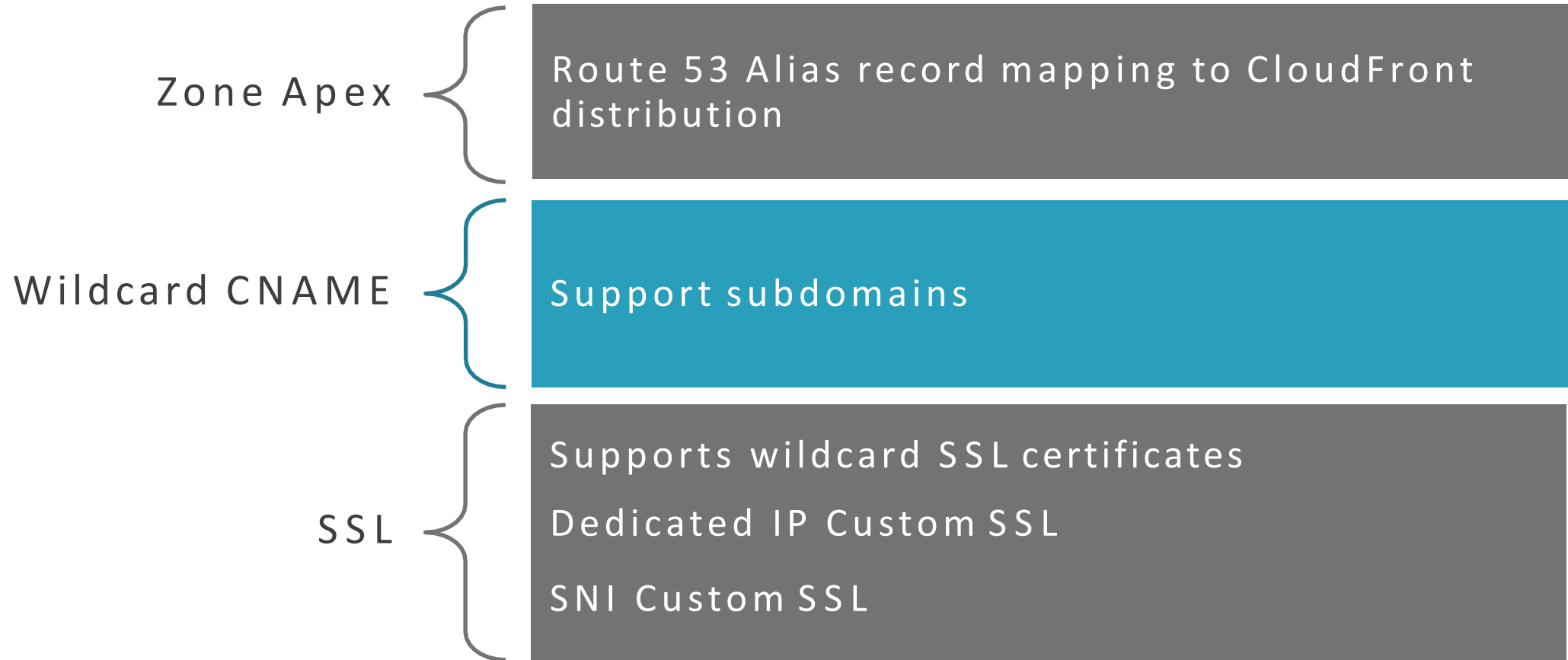
Optimized to work with other Amazon Web Services

- Amazon S3
- Amazon EC2
- Amazon Elastic Load Balancing
- Amazon Route 53

CloudFront Characteristics

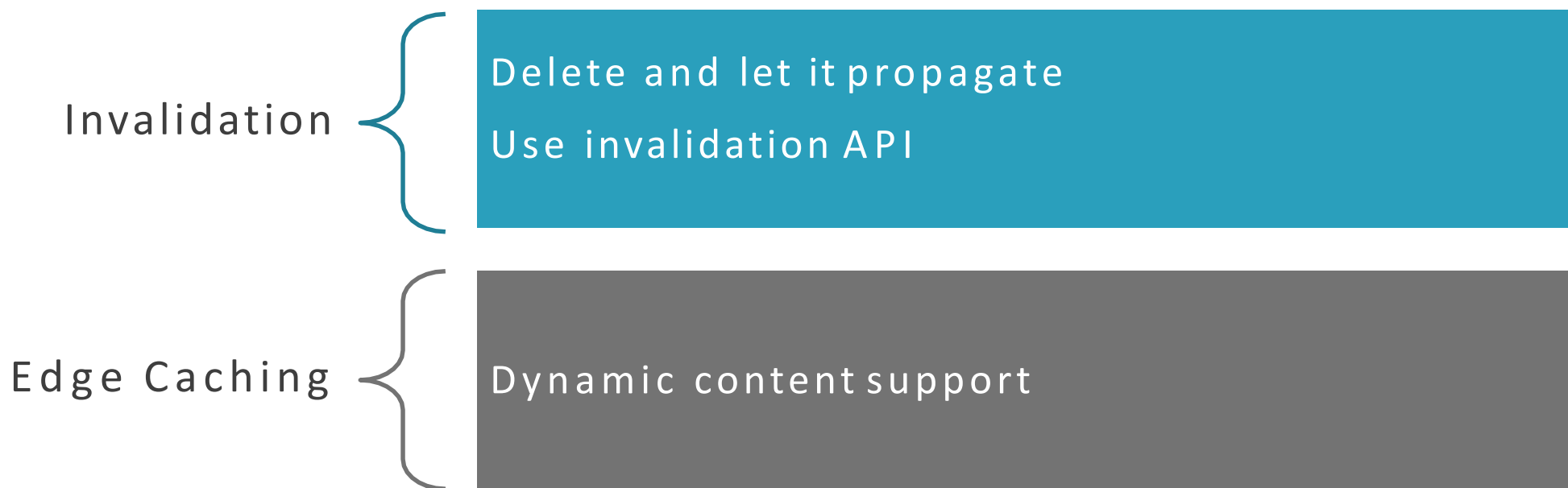


CloudFront Characteristics



CloudFront Characteristics

Invalidation



The diagram illustrates two main categories of CloudFront characteristics. The first category, 'Invalidation', is represented by a teal-colored box and includes two sub-points: 'Delete and let it propagate' and 'Use invalidation API'. The second category, 'Edge Caching', is represented by a dark gray box and includes one sub-point: 'Dynamic content support'. Each category is preceded by a curly brace that groups the sub-points under its respective title.

- Delete and let it propagate
- Use invalidation API

Edge Caching

- Dynamic content support

Summary



Amazon S3

Securing S3

Amazon Glacier

AWS Storage Gateway

Amazon CloudFront

