

Reviewing Storage Performance Options

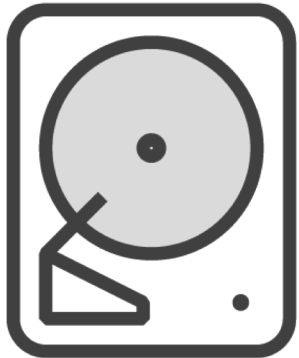


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DEVELOPER, ARCHITECT, TRAINER, SPEAKER, AUTHOR

@mgerickson





Sharing

Latency

Throughput

Persistence

File size





Access Method

Availability

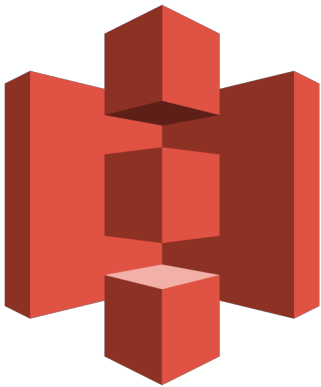
Durability

Frequency

- Access
- Update



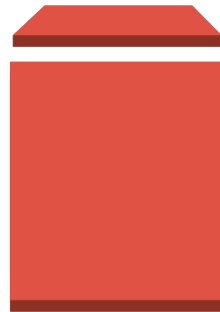
AWS Storage Options



S3
Simple Storage
Service



S3 Glacier

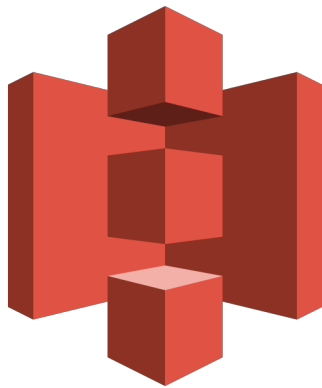


EBS
Block Storage



EFS
Elastic File
System





S3

Shared access

Low latency

High throughput

High availability

Data durability





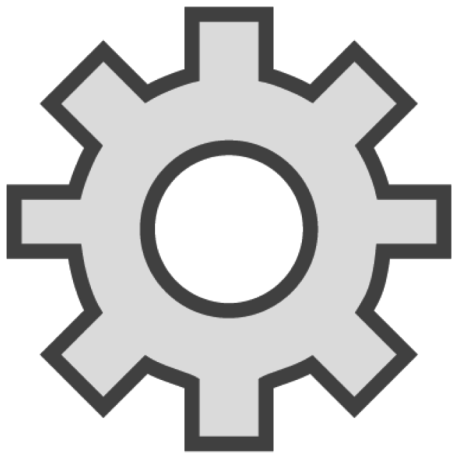
Encryption

Access management

Lifecycle management

Query-in-place





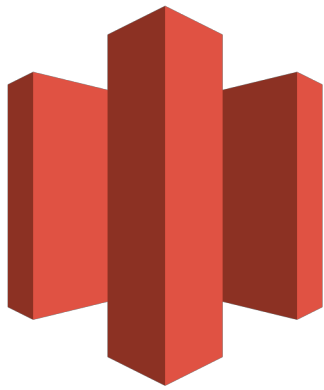
Standard

Intelligent tiering

Standard infrequent access

One-Zone infrequent access





Glacier

Archival storage

Encrypted

Access control

Audit logging



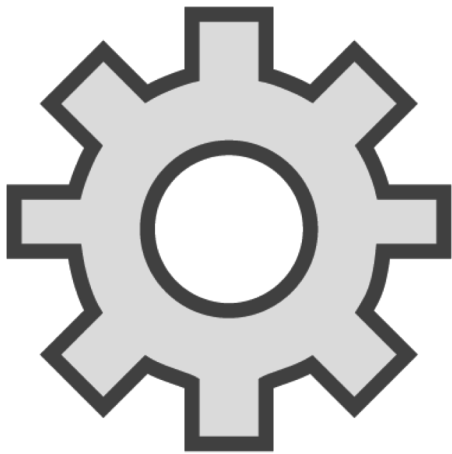


Immutable

Durable

Query stored data without retrieval





Latency options

- Expedited
- Standard
- Bulk

Economical





EBS

Attached
Replicated
Access control



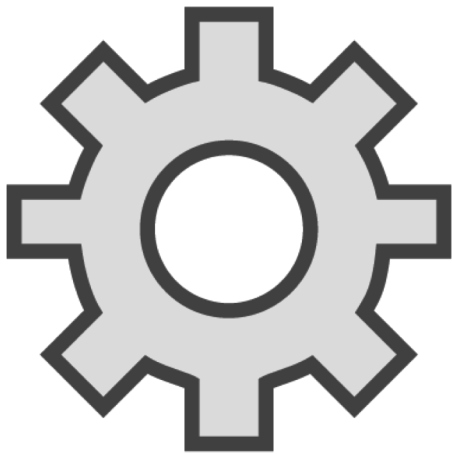


IOPS optimized (SSD)

Throughput optimized (HDD)

Snapshots





Elastic volumes

Encrypt





EFS

Shared access

Elastic

Available

Durable





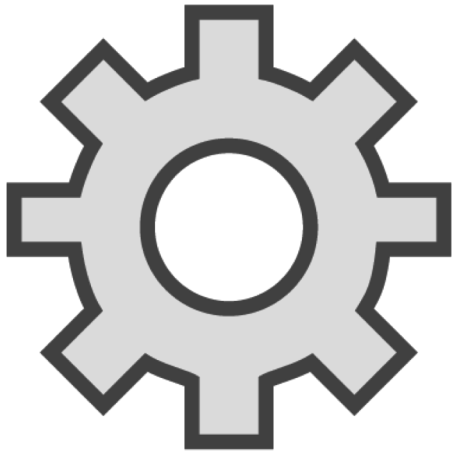
Performance

- General purpose
- Max I/O

Throughput

- Bursting
- Provisioned

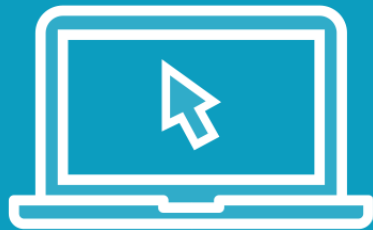




Security
Encryption



Demo



Researching AWS storage options



Applying Our Knowledge



Migrating to AWS Storage



GLOBOMANTICS

Portfolio of web applications

Global presence

Data collection from clinical trials



Considerations for Choice



Shared access

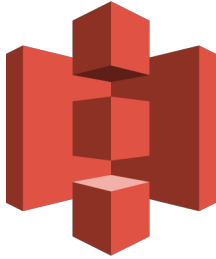


Durability



Long term storage





S3



S3 Glacier

Highly durable

Access from ECS containers

Multiple access

Long term storage



Built for the Cloud



GLOBOMANTICS

New web application

Match medical devices to needs

Global user base



Considerations for Choice



Lower cost

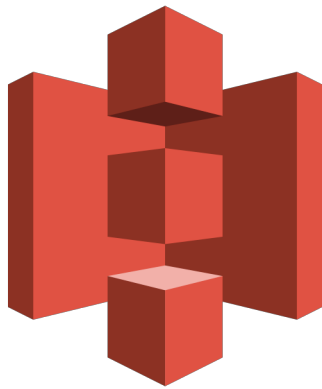


Local access



Non-critical images





S3

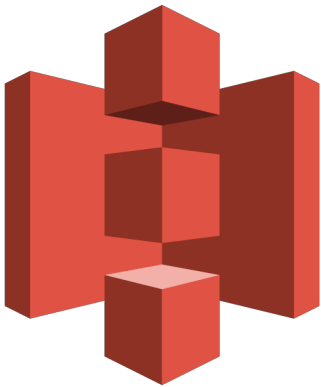
Single region

Reduced Redundancy Storage (RRD)

Monitor!



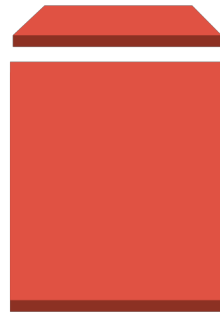
AWS Storage Options



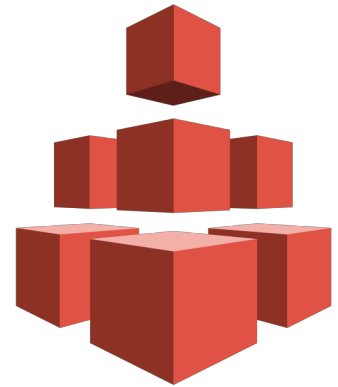
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S3 Glacier

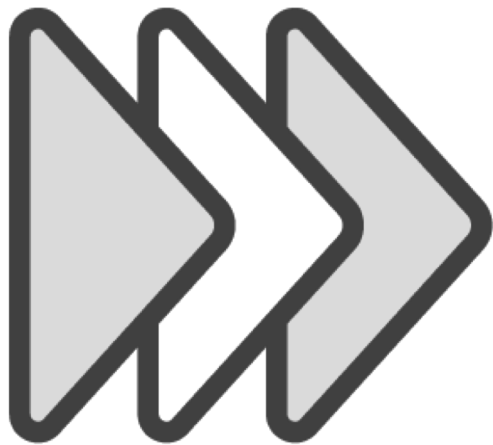


EBS
Block Storage



EFS
Elastic File
System





Database performance

