Reviewing Storage Performance Options
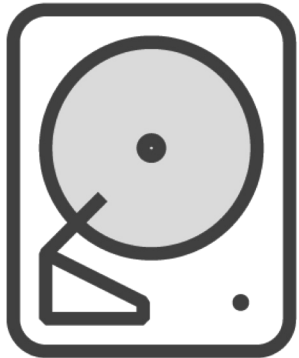
Kien Bui

DevOps & Platform Engineer

Sharing

Latency

Throughput

Persistence
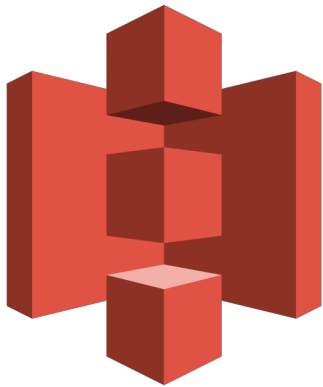
File size

Access Method

Availability

Durability

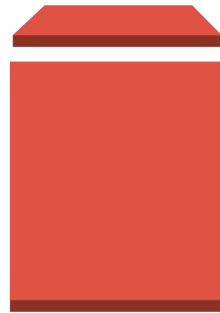Frequency
- Access
- Update

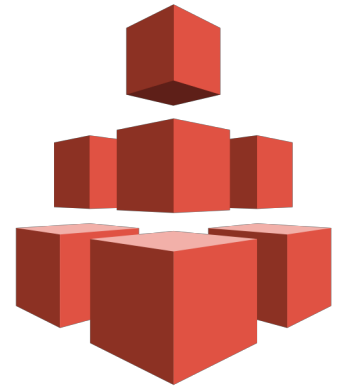# AWS Storage Options

S3

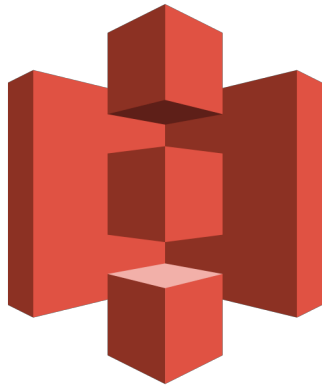Simple Storage Service

S3 Glacier

EBS

Block Storage

EFS

Elastic File System

S3

Shared access

Low latency

High throughput

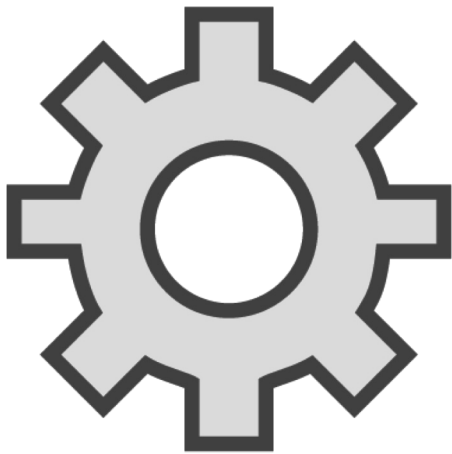High availability

Data durability

Encryption

Access management
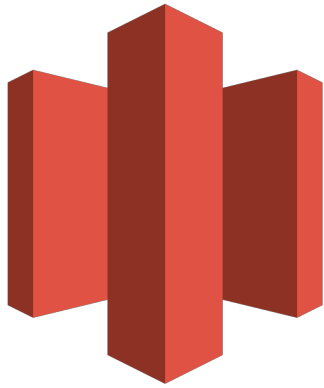
Lifecycle management

Query-in-place

Standard

Intelligent tiering

Standard infrequent access

One-Zone infrequent access

Glacier

Archival storage

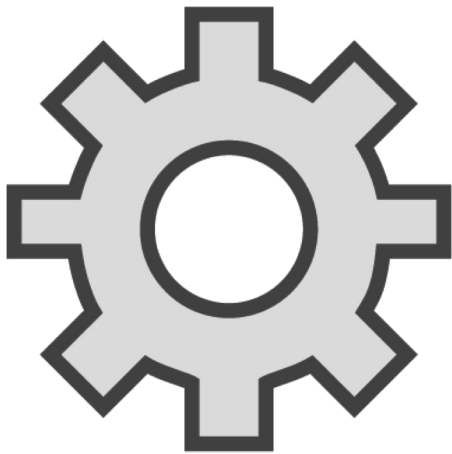Encrypted

Access control

Audit logging

Immutable

Durable

Query stored data without retrieval

Latency options
- Expedited
- Standard
- Bulk

Economical

EBS

Attached

Replicated

Access control
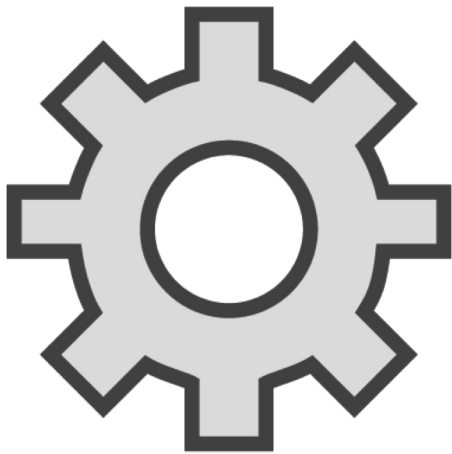
IOPS optimized (SSD)

Throughput optimized (HDD)

Snapshots

Elastic volumes

Encrypt

EFS

Shared access

Elastic

Available

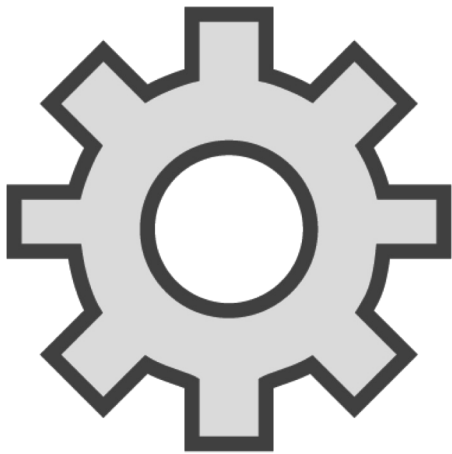Durable

Performance
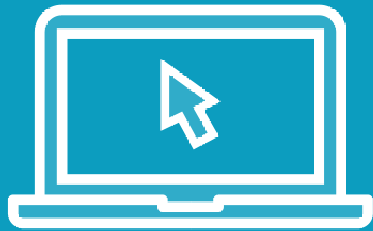- General purpose
- Max I/O

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

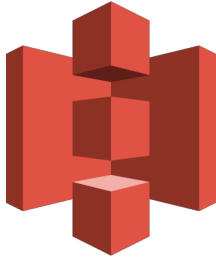# Considerations for Choice

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
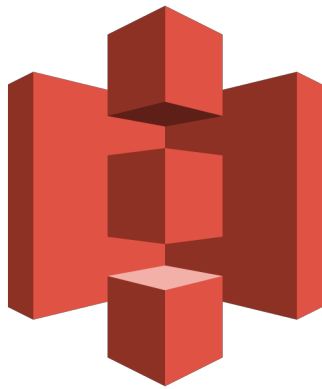
Considerations for Choice

Lower cost

Local access

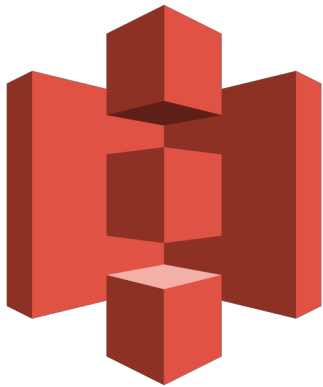Non-critical images

S3

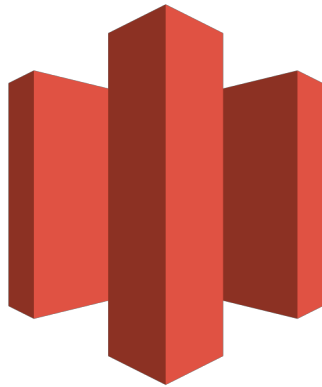Single region

Reduced Redundancy Storage (RRD)

Monitor!

AWS Storage Options

S3
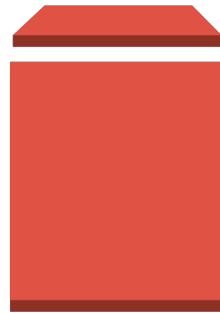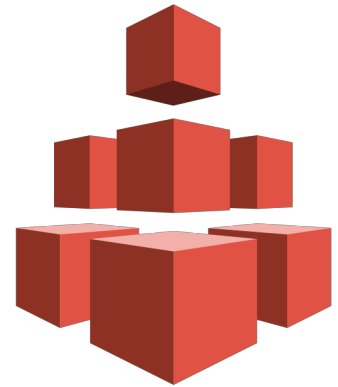
Simple Storage
Service

S3 Glacier

EBS

Block Storage

EFS

Elastic File
System

Database performance