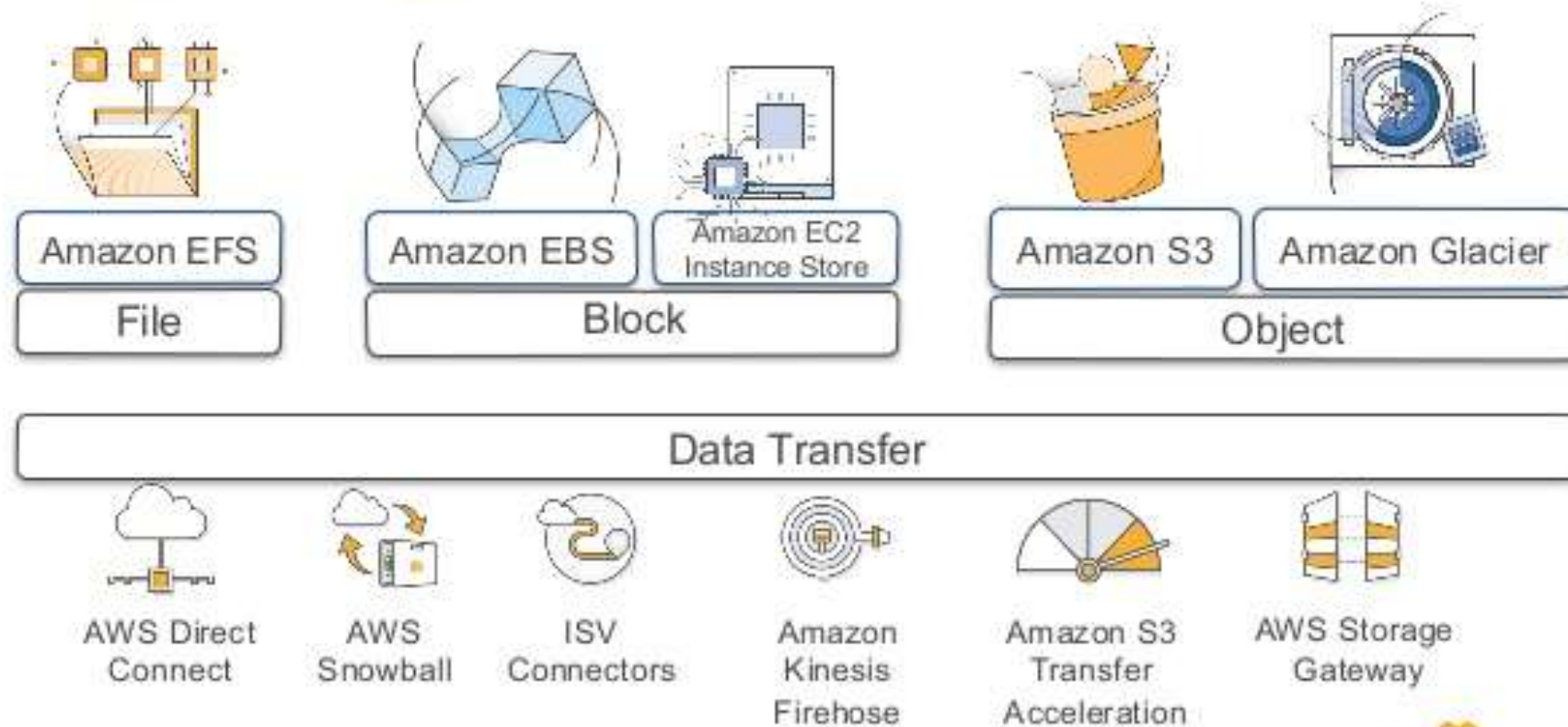


# **STORAGE AND DB**

# AWS STORAGE OPTIONS

## AWS storage solutions





## **Amazon Simple Storage Service (S3)**

Object storage with industry-leading scalability, availability, and security for you to store and retrieve any amount of data from anywhere.



## **Amazon Elastic File System (EFS)**

A simple, serverless, elastic, set-and-forget file system for you to share file data without managing storage.

FSx

**Amazon FSx**

Fully managed, cost-effective file storage offering the capabilities and performance of popular commercial and open-source file systems.



**Amazon Elastic Block Store  
(EBS)**

Easy to use, high-performance block storage service for both throughput and transaction-intensive workloads at any scale.

# AMAZON S3 KEY CONCEPTS



- **Buckets-** A bucket is a container used for storing the objects.
- **Objects-** Objects are the entities which are stored in an S3 bucket.
- **Key-** A key is a unique identifier for an object.
  
- **Regions-** You can choose a geographical region in which you want to store the buckets that you have created.
  
- **Data Consistency Model-** Amazon S3 replicates the data to multiple servers to achieve high availability.  
Two types of models:
  1. **Read-after-write consistency for PUTS of new objects.**
  2. **Eventual consistency for overwrite PUTS and DELETES**

# AMAZON DYNAMODB



Amazon DynamoDB

- Amazon DynamoDB is a fully managed NoSQL database service that provides fast and predictable performance with seamless scalability.
- DynamoDB lets you offload the administrative burdens of operating and scaling a distributed database so that you don't have to worry about hardware provisioning, setup and configuration, replication, software patching, or cluster scaling.
- DynamoDB also offers encryption at rest, which eliminates the operational burden and complexity involved in protecting sensitive data.