* Imp Points *

- Amazon Elasticache for Redis is a blazing fast in-memory data store that provides sub-millisecond latency to power internet scale real time applications.

- Amazon Elasticache for Redis is a great choice for real-time transactional and analytical processing use cases such as caching, chat/messaging, gaming leatherboards, geospatial, machine learning, media streaming, queues, real-time analytics, and session store.

- Elasticache for Redis supports replication, high availability, cluster sharding. IAM Auth is not supported by Elasticache.

- Redis authentication tokens enable Redis to require a token (password) before allowing clients to execute commands, thereby improving data security.

- AWS Key Management Service (KMS): Create, manage cryptographic keys, secure, resilient service. Does not support username and password for enabling encryption.

- Security group: Acts as a firewall, add rules to each security group.

- AWS service that support Gateway Endpoints: Amazon S3, DynamoDB.

- VPC End point: Privately connect your vpc to supported AWS service.

Endpoints are virtual device.

VPC Endpoints

Interface Endpoint   Gateway Endpoint
(Elastic Network
Interface with a
private IP)

Amazon S3

Gateway   Interface
Endpoint   endpoints.

AppSync → Manage & update mobile
app data in real time between devices and
the cloud.

VPN CloutHub : Provide secure connection,
communication between sites using the Site-
to-site VPN. Operates on hub-and-spoke
model.

A region is a cluster of data centers

Most AWS services are region scoped

How to choose an AWS Region?

Compliance

• Proximity

Available services

• Pricing

Availability Zone (AZ): min 3, max 6