ABC Hospital Network Architecture

Hospital

Private line

R — Point of presence — R Cloud A

Private line

R — Point of presence — R Cloud B
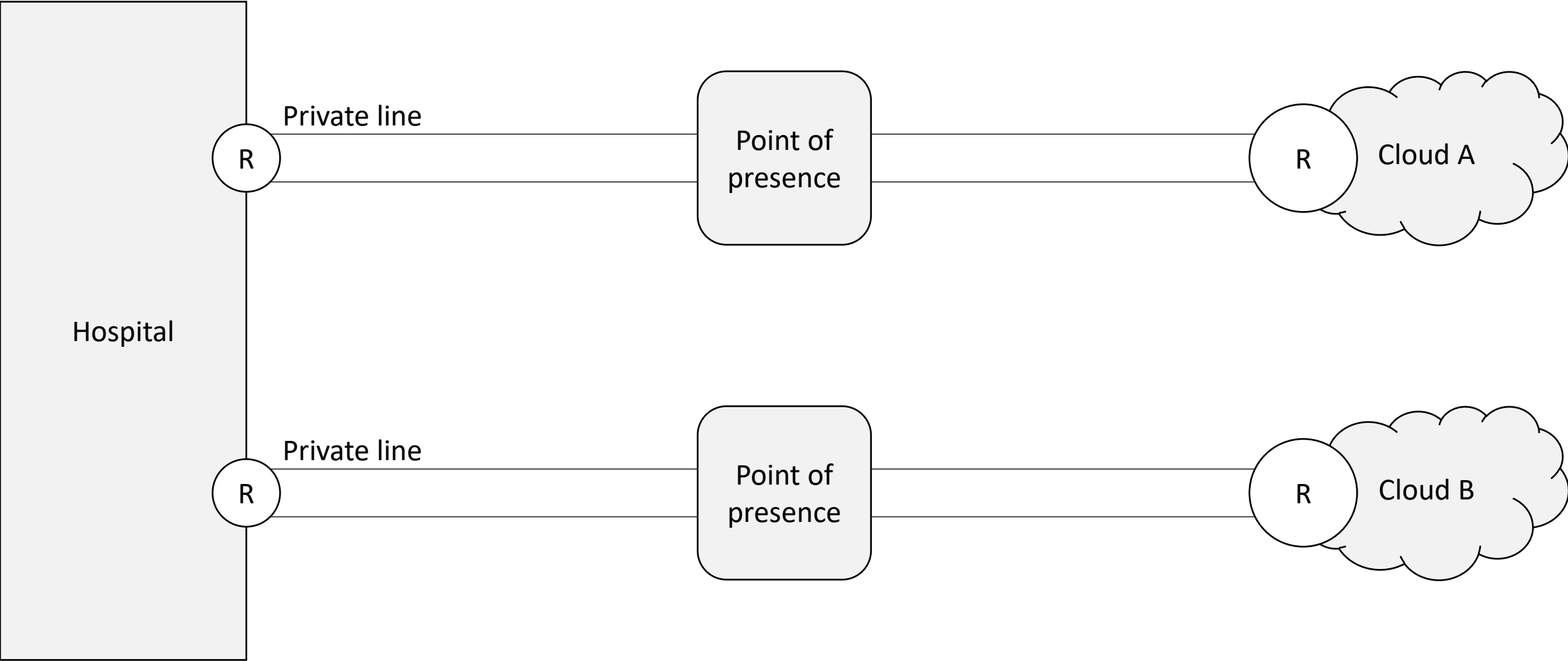
R: Router

ABC Hospital 3 Apps Architecture

VPC

- Domain Name Service (DNS)
- Content Delivery Network (CDN)
- Network Load Balancer — NLB

Electronic Healthcare — 5 VM — Auto Scaling Group

Order Entry System — 5 VM — Auto Scaling Group

Chats — VM — Auto Scaling Group

- Queue
- Cache
- SQL Database
- Read Replica
- Read Replica
- Read Replica
- Read Replica
- Object Storage — Immutable — 7 years retention
- No SQL Database
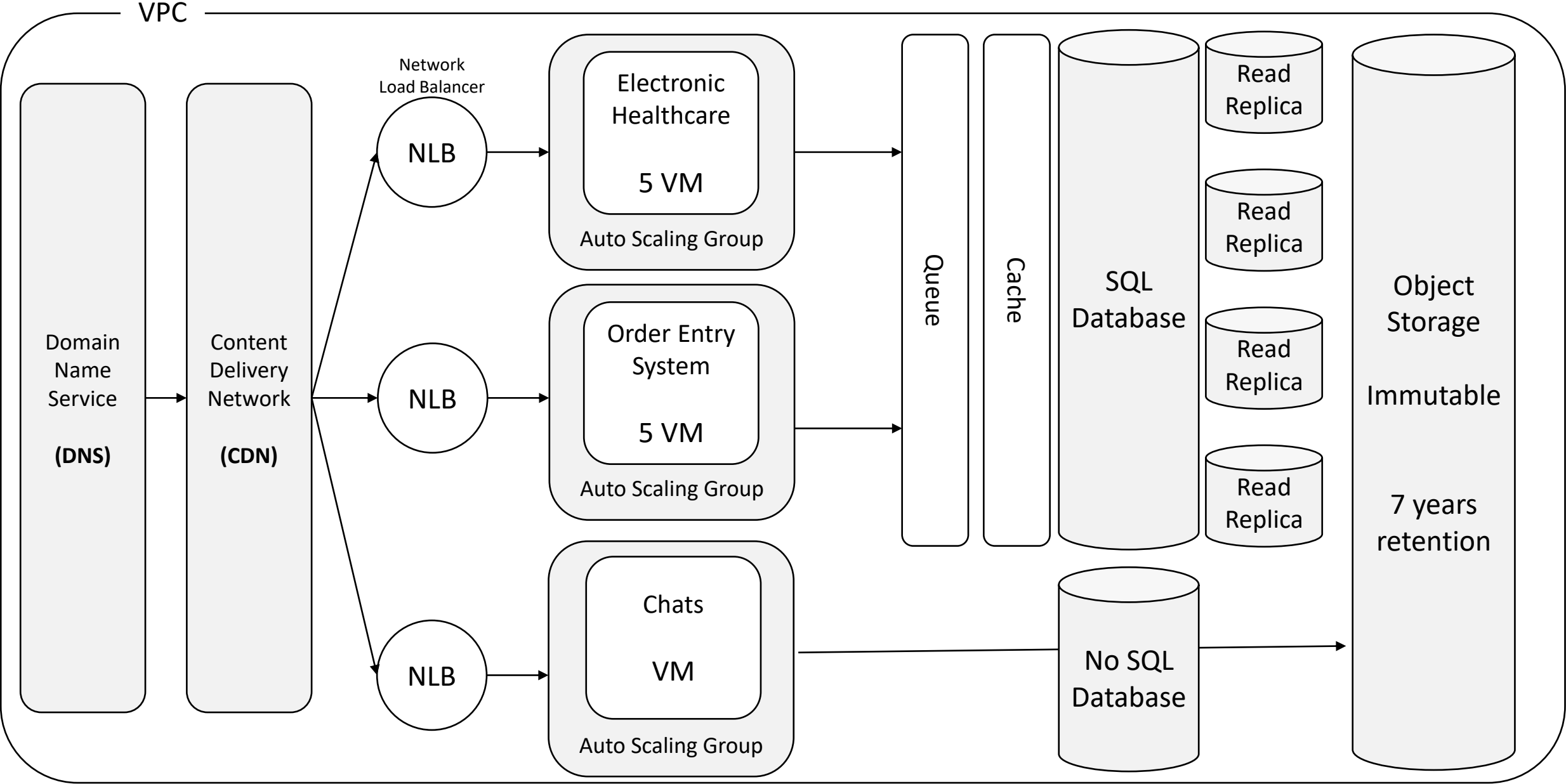
ABC Hospital Security Architecture (per Availability Zone)

VPC

|								
CDN DDoS Protection	NLB	NGFW NGFW	NLB	IDS/IPS IDS/IPS	ACL	SG	HBF Patching Disable unnecessary services, ports Anti-malware	IAM Encryption at rest & in transit KMS MFA Train Employees
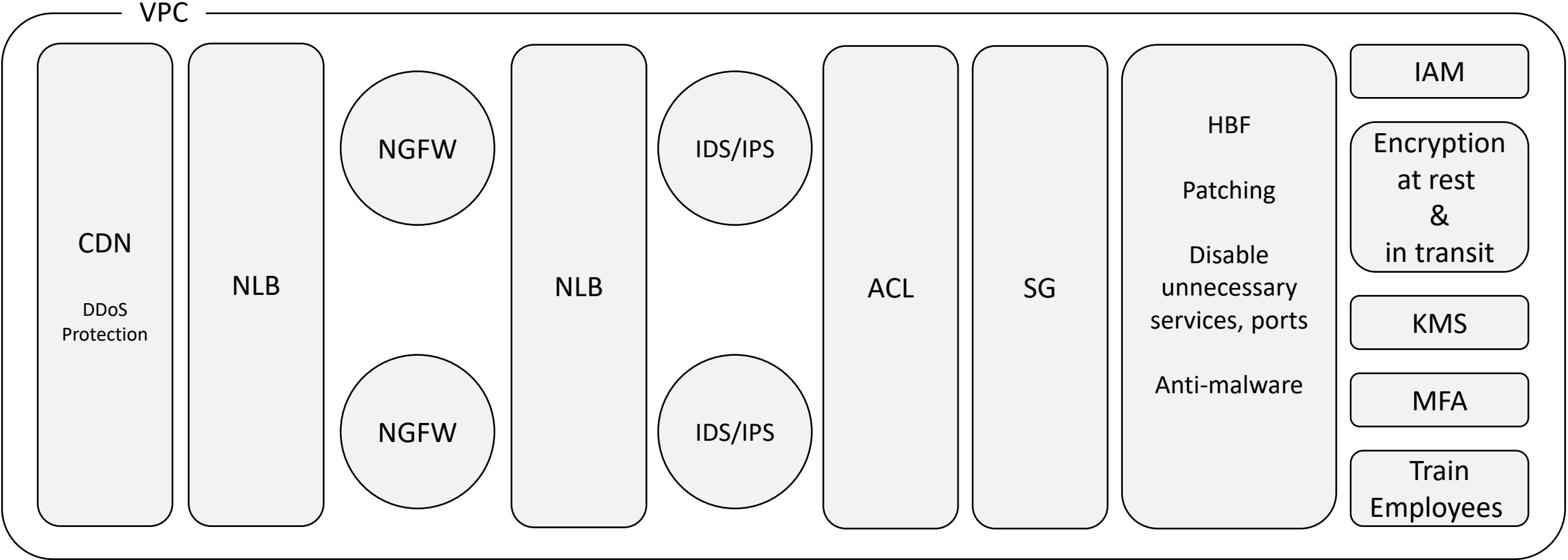
Table of acronyms:

CDN: Content Delivery Network

DDoS: Distributed Denial of Service

NLB: Network Load Balancer

NGFW: NextGen Firewall

IDS: Intrusion Detection System

IPS: Intrusion Prevention System

ACL: Access Control List

SG: Security Group

HBF: Host Based Firewall

IAM: Identity Access Management

KMS: Key Management System

MFA: Multi Factor Authentication

ABC Hospital Migrating to the Cloud
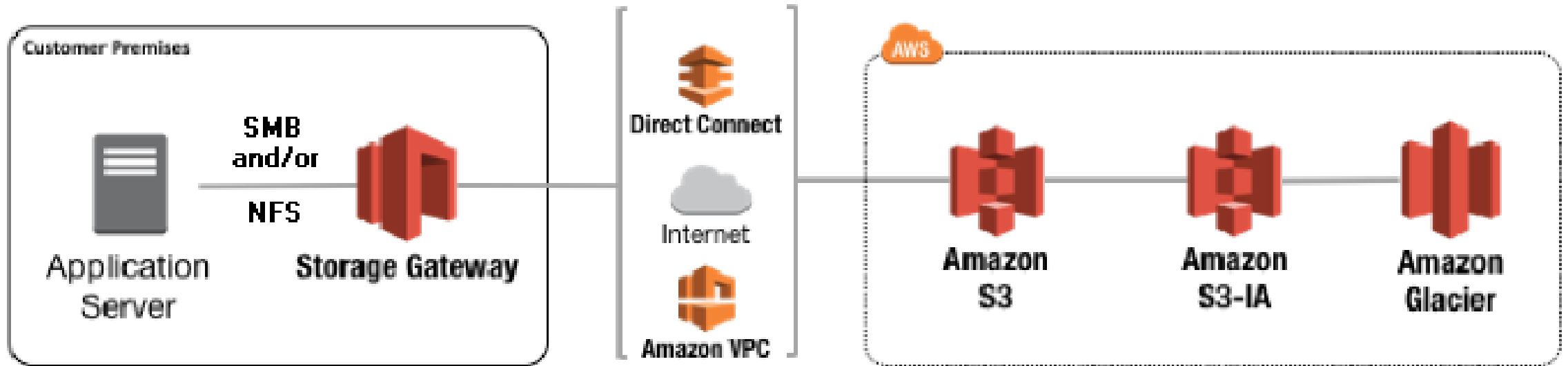
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