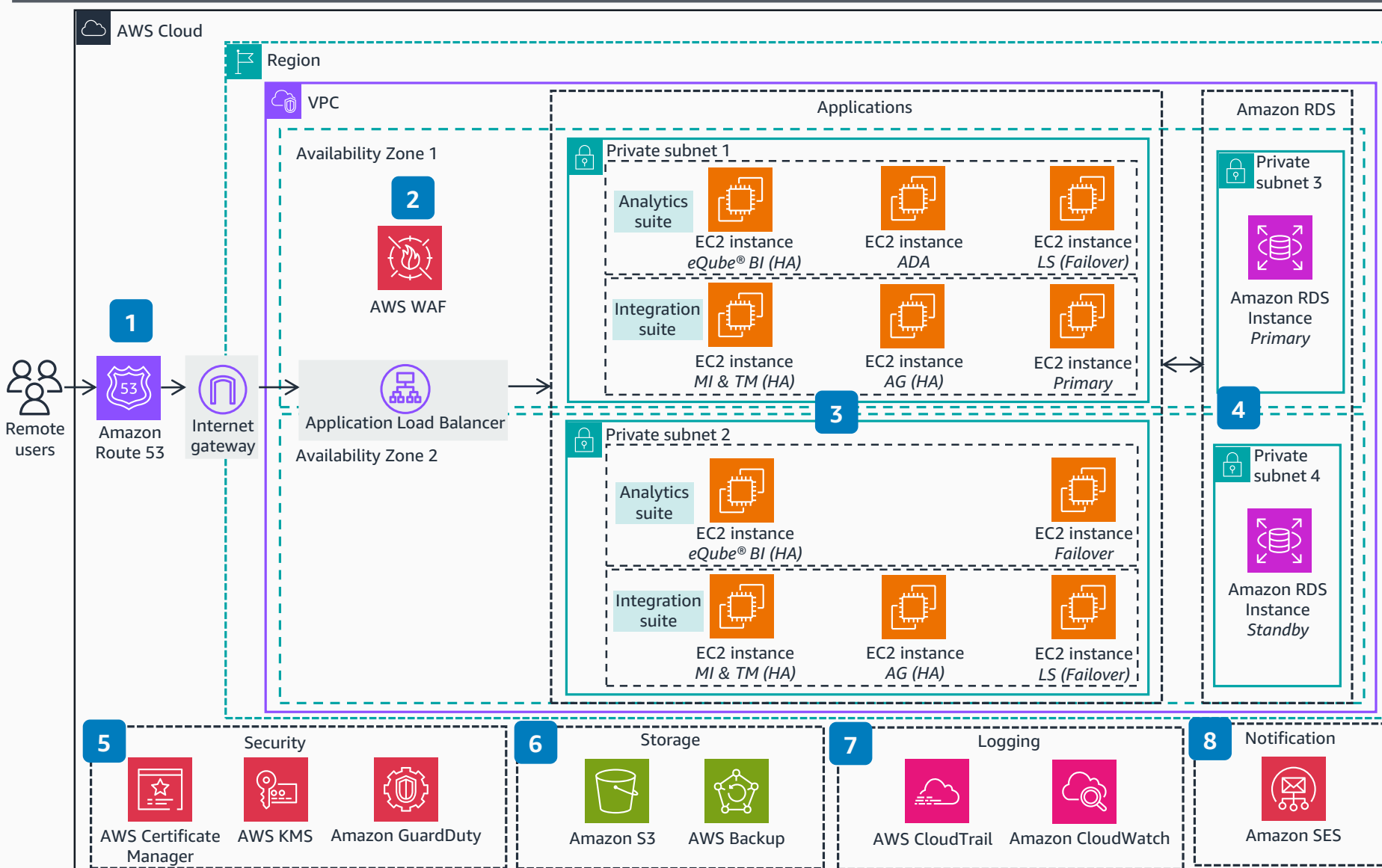


# Guidance for eQube® Data-As-A-Service on AWS

This architecture demonstrates eQube® Data-As-A-Service analytics and integration suites for digital thread infrastructure.



**1** Remote end users connect to **Amazon Route 53**, which resolves hostname and connects to eQube® analytics and integration suites. **Route 53** routes public internet traffic to the internet gateway associated with the virtual private cloud (VPC).

**2** **Application Load Balancer (ALB)** directs user traffic based on load and availability to eQube® integration and analytics suites across Availability Zones. **AWS WAF** integrates with **ALB** to protect infrastructure against common web exploits and bots.

**3** **Amazon Elastic Compute Cloud (Amazon EC2)** instances host the analytics suite, which consists of business intelligence (BI), augmented data analytics data profiler (ADA), and license servers (LS) in addition to the integration suite, which consists of migration and integration (MI), transformation module (TM), and **Amazon API Gateway (AG)**.

**4** **Amazon Relational Database Service (Amazon RDS) for PostgreSQL** connects to eQube® analytics and integration suites and stores structured data with synchronous cross-Availability Zone replication to the Standby RDS instance, providing high resilience and fault tolerance.

**5** **AWS Certificate Manager (ACM)** creates and manages SSL/TLS certificates for encryption in transit. **AWS Key Management Service (AWS KMS)** manages encryption keys for **Amazon RDS** volumes at rest. **Amazon GuardDuty** protects AWS accounts with intelligent threat detection.

**6** **Amazon Simple Storage Service (Amazon S3)** stores deployment files. **AWS Backup** automates **Amazon EC2** and **Amazon RDS** backups.

**7** **AWS CloudTrail** monitors and records account activity across AWS infrastructure. **Amazon CloudWatch** receives **EC2** instance and eQube® metrics from **Amazon CloudWatch Agent**.

**8** **Amazon Simple Email Service (Amazon SES)** sends email notifications for alerts and alarms related to eQube® and AWS resources.

