Proposed GCP Architecture

Modernized Cloud Infrastructure with High Availability and DDoS Protection

User → Cloud DNS → Cloud Armor → Cloud CDN → Cloud Load

Cloud Storage

App Engine

Compute Engine
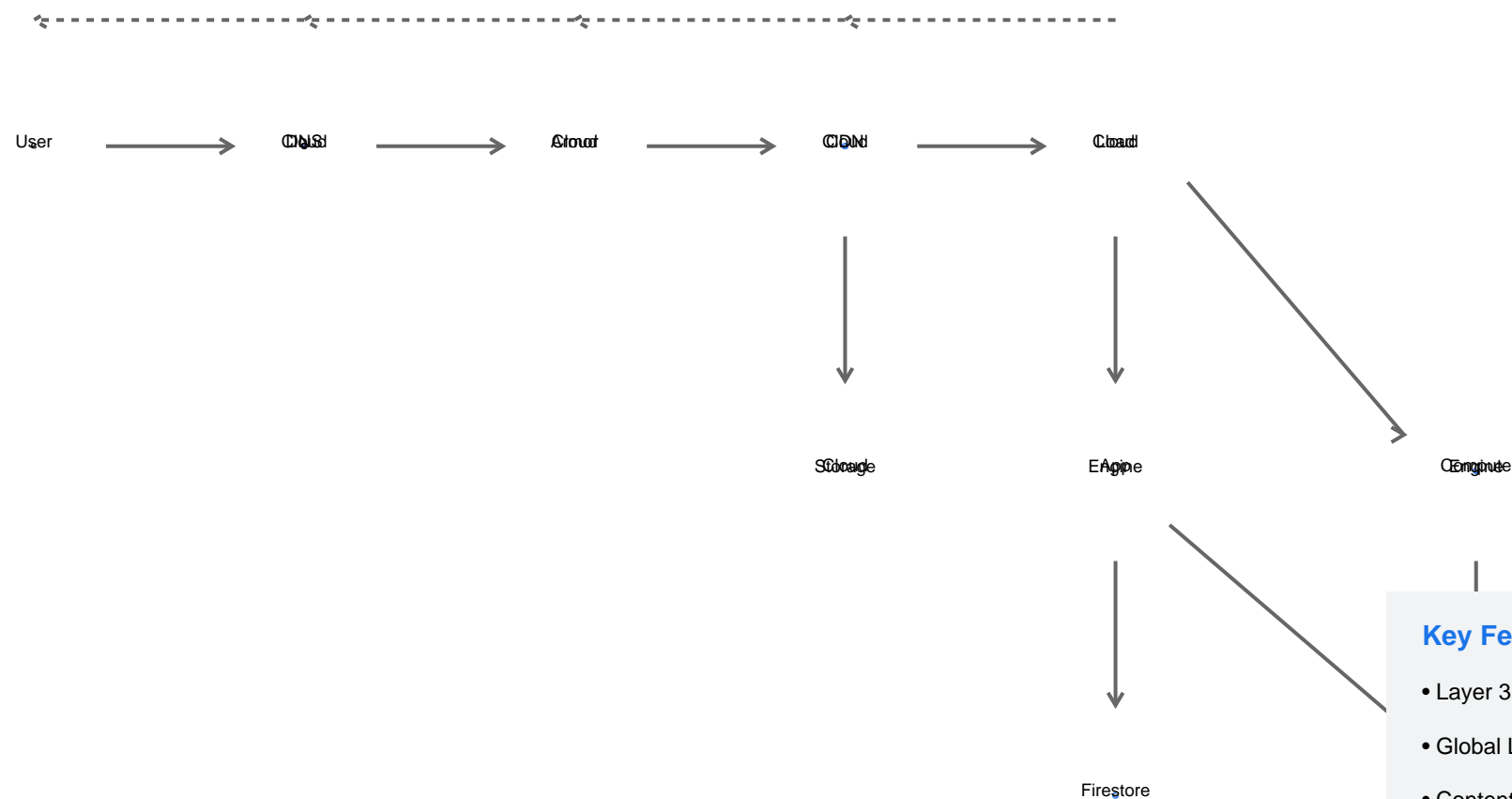
Firestore

Key Features:

- Layer 3 & 4 DDoS Protection (Cloud Armor)
- Global Load Balancing with Auto-scaling
- Content Delivery Network (Cloud CDN)
- Fully Managed NoSQL (Firestore)
- Managed SQL Database (Cloud SQL)
- High Availability Across Regions
- Enterprise-Grade Security

Legend:

——— Request Flow

- - - - - Response Flow

Note: For high availability, deploy across multiple regions with Cloud Load Balancer routing traffic to the healthiest region.