

CLIENT: React Frontend
Voter Interface | Admin Dashboard | Real-time Analytics

HTTPS / WebSocket

BACKEND: FastAPI (REST + WebSocket)
Identity Service | Voting Service | Analytics Service

**Identity
Database**

**Voting DB
(Postgre +
Timescale)**

**Redis
cache**

**AWS QLDB
(Audit Log)**

INFRASTRUCTURE: Docker on AWS ECS
Fargate + RDS + S3
MONITORING: Grafana + Prometheus