

# Advanced Monitoring & Observability (New Relic)

Beyond basic APM, this setup leverages the full New Relic Observability Platform.

## 1. Synthetic Monitoring

We have implemented **Scripted Browser Tests** that simulate a user login flow every 5 minutes from global locations (US, EU, Asia) to ensure the API is not just "up" but functional.

## 2. Distributed Tracing

By enabling the `newrelic.config.distributed_tracing.enabled=true` flag in the Java agent, we track requests as they move from the **ALB → ECS Container → PostgreSQL**. This helps identify "Long Tail" latency issues in specific microservices.

## 3. Log Integration

The ECS `awslogs` driver is configured to stream directly to **New Relic Logs** via a Kinesis Firehose.

- **Benefit:** Allows for "Contextual Logging" (clicking a slow trace and immediately seeing the specific logs for that exact transaction).

## 4. Alerting Policy

- **Critical:** Throughput drops to 0 (Potential outage).
- **Warning:** 95th percentile latency exceeds 500ms.
- **Infrastructure:** Container restarts (flapping) detected via New Relic Infrastructure agent.