**OPS-14 — Chaos / Failure Injection (Gate & Webhooks)**

**Intent**  
Prove resilience: inject latency, drops, errors in **gatecheck** and **webhooks** and verify graceful degradation (retries, idempotency, DLQ).

**Preconditions**

* Toggleable chaos layer; non-prod targets first.

**Flow**

1. **Scenarios**:
   * Gate latency spikes, cache misses, partial region fail.
   * Webhook 500s, timeouts, duplicate deliveries, out-of-order events.
2. **Run**: weekly chaos window with controlled blast radius.
3. **Checks**: client backoff headers respected; retries honored; idempotency keys prevent dupes; DLQs drained.
4. **Reports**: auto-generate chaos report (rates, recovery time, errors).

**Edge cases**

* Long outages → circuit breakers, fallback banners.
* Thundering-herds → jittered backoff validated.

**Done when**

* No data loss; DLQs empty before window ends; SLOs hold under injected stress; report stored.