Gaps of Phase 1/2/3

Gaps to polish and finalize (MVP: Meta + LinkedIn)

- Security & configuration
 - Secrets management: move env vars to AWS Secrets Manager/Vault; rotate keys.
 - JWT and API key hygiene: expiration, rotation, and scoped API keys.
 - Input validation and schema validation for all POST bodies.
- OAuth & account selection
 - Unify callback/state validation; CSRF/state verification and nonce storage.
 - Multi-account selection UX: allow selecting which page/company (and IG account) to connect/target.
 - Token scope checks and re-consent flow if scopes missing.
- Token lifecycle
 - Expand token audit logging and surface in admin UI/logs.
 - Retry/backoff on refresh failures; alert on repeated failures.
 - Cache invalidation on manual disconnect.
- Content workflow
 - Guardrails: prevent scheduling when missing required media (e.g., IG photo).
 - Permissions: enforce role-based actions (editor vs admin) beyond current guard.
 - Richer IG presets (story/reel/carousel options) and validation hints.
- Scheduling & jobs
 - Reschedule/cancel endpoints and UI semantics.
 - Idempotency keys per schedule publish; dedupe on worker side.

Gaps of Phase 1/2/3

Provider-aware retry/backoff policies; exponential with jitter and max cap.

Publishing robustness

- Target account selection: persist which page/company to publish to.
- Media handling: large image/video handling, mime detection, size limits.
- Error normalization (rate limits, invalid media, auth) with actionable messages.

Webhooks processing

- Implement processors for actionable events (comments, messages, status updates).
- Dead-letter queue dashboards; reprocessing pipeline; alerting on DLQ growth.
- Signature failure telemetry; idempotency collision monitoring.

Analytics & insights

- Wire Meta/LinkedIn insights into API; store snapshots for time series.
- Basic dashboards (reach, engagement) per account and per post.
- Pagination and rate-limit friendly batching for analytics fetch.

Observability

- Structured logging (JSON) and correlation IDs across API/Worker.
- Prometheus metrics: queue sizes, job durations, success/failure, publish latency.
- Grafana dashboards + alerts (token refresh failures, 429 spikes, job fail rate).

Performance & data

- DB indexes verification for schedules, tokens, webhook events.
- Content and schedule queries: pagination and filters.
- Background image processing concurrency limits.
- Multi-tenancy & tenancy safety

Gaps of Phase 1/2/3

- Remove hardcoded org_chauncey; propagate organizationId from auth context.
- Enforce tenant isolation in queries.

Rate limiting & abuse prevention

- Per-route, per-tenant limits; separate limits for webhooks and publish endpoints.
- Circuit breakers for provider APIs on sustained 429/5xx.

CI/CD & quality

- CI: lint/test/build gates; secret scanning; type checks.
- E2E tests: OAuth, publish flows (mock providers); webhook signature tests.
- Load testing for publish bursts and webhook storms.

Documentation & runbooks

- Step-by-step connect → approve → schedule → publish guide.
- On-call runbook for token issues, rate limits, DLQ handling.
- Postman collection updates with envs and examples.

Compliance & privacy (lightweight)

- Log redaction for tokens/signatures; PII handling in webhook payloads.
- Data retention policies for webhook events and logs.
- Nice-to-haves (if time permits)
 - Admin tools: token health page, queue inspector, DLQ replayer.
 - Backfill publish history import from platforms.

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