

Deployment Checklist: Drop — Fintech Payment App

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“ **Project:** Drop — Remittance + QR Payments **Version:** 0.5.0 **Date:** 2026-02-23
Author: John (AI Director) **Status:** Approved **Reviewers:** Alem Bašić (CEO)

Document History

Version	Date	Author	Changes
0.1	2026-02-23	John	Initial draft — aligned to Phase 0.5 security hardening

Deployment Metadata

Field	Value
Version	0.5.0
Target Environment	Staging → Production (Fly.io, Stockholm)
Deployment Date	TBD per release
Deployment Time	02:00–06:00 CET (off-peak window)
Deploy Engineer	John (AI Director)
Approver	Alem Bašić (CEO)
Deployment Type	Standard

Field	Value
Change Request #	CR-001
Rollback Version	0.4.x (previous stable)

1. Pre-Deployment Checklist

Code Quality Gates

- Code reviewed and approved** — all PRs in this release have ≥ 1 approval (Alem or John)
- All unit tests passing** — CI pipeline green on the release branch (`npm run test` → 40+ tests pass)
- All integration tests passing** — CI pipeline integration stage green (`npm run test:integration`)
- Code coverage meets minimum** — $\geq 80\%$ overall; 100% for auth + transaction paths (Vitest coverage)
- No HIGH/CRITICAL security findings** — SAST scan clean; no open critical issues from security audit
- No secrets detected** — no `.env` values committed; secret scanning clean
- Linting passes** — `npm run lint` no errors in CI lint stage
- TypeScript compiles** — `npm run type-check` passes with zero errors

Staging Verification

- Staging deployment complete** — artifact deployed to `https://drop-staging.fly.dev/`
- E2E tests passing on staging** — Playwright suite green (3 projects: user-flows, full-flows, input-chaos)
- Manual QA sign-off obtained** — Validator agent has reviewed new features
- Performance baseline not degraded** — P95 API within 10% of baseline (`api-benchmarks.test.ts` targets)
- Visual regression checks passed** — UI screens match Figma-make export mockups
- Health endpoint responding** — `GET https://drop-staging.fly.dev/api/health` returns `{"status": "ok"}`

Database & Migrations

- Database migrations reviewed** — SQL reviewed by a second person (John + Alem)
- Migrations tested on staging** — ran successfully; SQLite dev / PostgreSQL staging verified
- Down/rollback migration tested** — `migrate down` executes without errors on staging
- Migration script idempotent** — safe to run twice without errors
- Estimated migration time on production** documented: < 2 min (schema-only, no data migration in Phase 0.5)
- Data backup taken before migration** — Fly.io volume snapshot taken; backup ID recorded
- Pass-through model verified** — `users` table has NO `balance` column; `cards` table has NO `card_number` or `cvv` columns (db.test.ts passes)

Environment & Configuration

- All environment variables documented** — updated in Vaultwarden (`vault.basicconsulting.no`)
- New secrets provisioned** — `JWT_SECRET`, `DATABASE_URL`, `SUMSUB_API_KEY` (mock), `BAAS_API_KEY` (mock) set in Fly.io secrets
- Configuration changes reviewed** — no unintended env var drift from staging
- External API keys** — Sumsb and BaaS keys are mock/sandbox credentials (MVP only; real in Phase 2)
- `NEXT_PUBLIC_SERVICE_MODE` — set to `mock` for MVP; never `live` until BaaS partnership confirmed
- `NEXT_PUBLIC_FEATURE_FLAGS` — Cards feature flag OFF in production
- BankID keys** — Phase 2 only; not required for MVP

Feature Flags

- Feature flags configured** — new features default OFF in production
- Cards feature flag = OFF** — requires card partner onboarding (Phase 3)
- BankID flag = OFF** — Phase 2 feature; DOB validation active in MVP
- Kill switches in place** for QR payments and Remittance (env var toggle)
- Feature flag audit complete** — no stale flags from previous releases

Rollback Readiness

- Rollback plan documented** — see Section 5 and [rollback-plan.md](#)

- Previous version artifact available** — `drop-app:v0.4.x` Docker image in Fly.io registry
- Rollback tested on staging** — `flyctl deploy --image drop-app:v0.4.x` tested successfully
- Rollback owner assigned** — John (AI Director) is available during deployment window
- Rollback time < 5 minutes** confirmed (Fly.io blue/green instant rollback)

Operational Readiness

- On-call engineer notified** — Alem Bašić aware and available during deployment window
- Deployment window confirmed** — 02:00–06:00 CET (off-peak; lowest user traffic for Norway corridor)
- Monitoring dashboards open** — Fly.io metrics dashboard ready
- Slack channel ready** — #drop-deploy on alai-talk.slack.com
- Change request approved** — CR-001 approved by Alem Bašić

2. During Deployment

Step	Time	Actor	Status	Notes
Announce deployment start in #drop-deploy Slack		John		"Deploying Drop v0.5.0 to production"
Enable maintenance mode (if required)		John		Set <code>MAINTENANCE_MODE=true</code> env var
Trigger deployment: <code>flyctl deploy --app drop-app</code>		John		Monitor Fly.io deployment logs
Monitor deployment progress		John		Watch for health check failures
Run database migrations (if applicable)		John		<code>npm run db:migrate</code> on Fly.io console
Verify migration success: <code>flyctl ssh console -a drop-app</code>		John		Check no orphaned records
Confirm new instances healthy (health checks green)		John		Fly.io load balancer shows 2/2 healthy

Step	Time	Actor	Status	Notes
Confirm all instances running new version		John		<code>flyctl status --app drop-app</code>
Run smoke tests		Validator		<code>npx playwright test --project=user-flows</code>
Verify health endpoint: <code>curl https://getdrop.no/api/health</code>		John		Expect <code>{"status": "ok", "db": "connected"}</code>
Disable maintenance mode (if enabled)		John		Set <code>MAINTENANCE_MODE=false</code>
Announce deployment complete in #drop-deploy		John		Include version and health status

3. Post-Deployment Checklist

Immediate Verification (First 15 Minutes)

- Health checks passing** — `GET /api/health` returns 200 with `{"status": "ok", "db": "connected"}`
- Smoke tests pass** — Playwright user-flows suite green on production
- Critical user journey manual test** — manually verify: Registration → OTP → PIN → Login → Dashboard
- Error rate normal** — < 0.1% on Fly.io metrics dashboard
- P99 latency normal** — < 500ms (standard endpoints); < 1,000ms (bcrypt operations)
- Database connections normal** — no connection pool saturation
- No unexpected errors in logs** — `flyctl logs --app drop-app` shows clean logs

Feature Validation (First 30 Minutes)

- Registration flow functional** — test with valid Norwegian phone (+47) and DOB ≥ 18
- Login + JWT cookie set** — httpOnly, SameSite=Strict, 7-day expiry verified
- Remittance flow functional** — test with mock BaaS; fee calculation correct (0.5%)
- QR payment flow functional** — test with mock merchant; fee correct (1%)
- Exchange rates returning** — `GET /api/rates` returns 6 NOK corridors (RSD, BAM, PKR, TRY, PLN, EUR)

- Cards feature flag OFF** — no Cards UI exposed
- Rate limiting active** — 10+ auth requests → 429 response

Monitoring Setup (First 60 Minutes)

- Performance baseline compared** — P95 matches staging baseline
 - CPU and memory normal** — Fly.io metrics; no upward trend
 - Stakeholders notified** — Alem Bašić notified via MCP email (john@alai.no → alem@alai.no)
 - Release notes published** — [release-notes.md](#) updated
 - Security audit score maintained** — no regression from Phase 0.5 hardening (target: ≥ 80/100)
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4. Rollback Procedure (Quick Reference)

Rollback triggers (any one sufficient):

- Smoke tests fail after deployment
- Error rate > 1% for > 5 consecutive minutes
- P99 > 2,000ms sustained
- Data integrity issue detected (e.g., `balance` column found in users table)
- Security vulnerability actively exploited

Rollback authorization: John (AI Director) or Alem Bašić (CEO)

Rollback steps:

```
# 1. Announce in #drop-deploy: "Initiating rollback to v0.4.x"

# 2. Trigger Fly.io rollback (instant, < 2 min):
flyctl deploy --app drop-app --image drop-app:v0.4.x

# 3. If DB migration was included – run down migration:
flyctl ssh console -a drop-app -C "npm run db:migrate:down"

# 4. Verify rollback:
curl https://getdrop.no/api/health
```

```
npx playwright test --project=user-flows
```

Expected rollback time: 2-5 minutes (Fly.io blue/green) **Full rollback procedure:** [rollback-plan.md](#)

5. Emergency Deployment Process

Emergency deployments require:

1. Sign-off from Alem Bašić (CEO) or John (AI Director)
2. At least 1 code reviewer (can be async if truly urgent)
3. Staging deployment and smoke test (cannot be skipped — even for emergencies)
4. Enhanced post-deploy monitoring for 4h
5. Full retroactive change request within 24h of deployment

Emergency deployment allowed: Security vulnerabilities (e.g., auth bypass), data loss bugs, P1 service outages

6. Deployment Window & Blackout Periods

Standard deployment window: Tuesday–Thursday, 02:00–06:00 CET **Emergency deployments:** Any time, with CEO or AI Director approval

Blackout periods (no production deployments):

Period	Dates	Reason
Finanstilsynet submission window	TBD	Regulatory review — no changes during evaluation
BaaS partner onboarding	TBD (Phase 2)	Partner integration stability required
Norwegian bank holidays	Per year	Minimal engineering support available

Sign-Off

Pre-deployment confirmed by: John (AI Director) **Deployment completed by:** John (AI Director) **Post-deployment verified by:** Validator agent + John (AI Director)

Related Documents

- [Release Notes](#)
 - [Rollback Plan](#)
 - [UAT Sign-Off](#)
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Approval

Role	Name	Date	Signature
Author	John (AI Director)	2026-02-23	Approved (AI)
Tech Lead	John	2026-02-23	Approved
AI Director (John)	John	2026-02-23	Approved
CEO (Alem)	Alem Bašić	TBD	

Revision #5

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Updated 2026-05-31 20:03:29 UTC by John