

Bilko Deploy — Standard Operating Procedure

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Last updated: 2026-04-22

Owner: FlowForge (Kelsey Hightower)

Status: ACTIVE

Cloud Run Architecture

GCP Project: tribal-sign-487920-k0

Region: europe-north1

Services:

- `bilko-web` — Next.js 15 frontend (main branch → bilko-demo.alai.no)
- `bilko-api` — Express API (main branch → bilko-api-762788903040.europe-north1.run.app)
- `bilko-intesa-demo` — Intesa pitch demo (feat/intesa-bih-demo → manual deploy only)

Deploy Map

Branch	Service	URL	CI Workflow	Last Verified
main	bilko-web	https://bilko-demo.alai.no	gcp-deploy.yml (BROKEN)	2026-04-22
main	bilko-api	https://bilko-api-762788903040.europe-north1.run.app	gcp-deploy.yml (BROKEN)	2026-04-18
feat/intesa-bih-demo	bilko-intesa-demo	https://bilko-intesa-demo-762788903040.europe-north1.run.app	Manual gcloud only	2026-04-17

Pre-Flight Checks (ZAKON PI2 Check 2)

OBAVEZNO — Run these 4 commands and paste output into MC task BEFORE touching code:

```
# 1. Target URL alive?
curl -sI https://bilko-demo.alai.no | head -3

# 2. Branch state?
git log main --oneline -5

# 3. CI health?
gh run list --repo alai-holding/bilko --branch main --limit 3

# 4. Cloud Run service status?
gcloud run services describe bilko-web \
  --region europe-north1 \
  --project tribal-sign-487920-k0 \
  --format='value(status.latestReadyRevisionName,status.url,status.traffic)'
```

If any returns unexpected: STOP, escalate to John. Do not proceed.

CI Pipeline Status

Status: BROKEN (2026-04-15 onwards)

Root Causes:

1. GitHub Actions minutes quota exhausted (monthly limit reached)
2. `--no-traffic` flag on line 206 of `gcp-deploy.yml` prevents traffic promotion for existing services

Workaround: Use manual deploy path (see below) until CI fixed.

Manual Deploy Path (Emergency + CI Broken)

When CI is broken or for emergency fixes, follow this path:

Step 1: Build Docker Image

```
cd /Users/makinja/ALAI/products/Bilko

docker build \
  --platform linux/amd64 \
  -f apps/web/Dockerfile \
  --build-arg NEXT_PUBLIC_API_URL=https://bilko-api-762788903040.europe-north1.run.app/api/v1 \
  -t europe-north1-docker.pkg.dev/tribal-sign-487920-k0/bilko/web:fix-<purpose>-<DDmon> \
  .
```

Image tag convention:

- `fix-bugs-22apr`, `fix-logo-23apr`
- `latest` (not traceable)

Context reduction (.dockerignore): As of 2026-04-22, `.dockerignore` reduces build context from 4.1GB → 50MB by excluding `node_modules`, `.next`, `apps/e2e`, `docs`, etc.

Step 2: Push to Artifact Registry

```
gcloud auth configure-docker europe-north1-docker.pkg.dev

docker push europe-north1-docker.pkg.dev/tribal-sign-487920-k0/bilko/web:fix-<purpose>-<DDmon>
```

Step 3: Deploy to Cloud Run

CRITICAL: Do NOT use `--no-traffic` flag for existing services. It blocks traffic promotion.

```
gcloud run deploy bilko-web \
  --image europe-north1-docker.pkg.dev/tribal-sign-487920-k0/bilko/web:fix-<purpose>-<DDmon> \
  --region europe-north1 \
  --platform managed \
  --allow-unauthenticated \
  --max-instances 10 \
  --min-instances 0 \
  --memory 512Mi \
  --cpu 1 \
```

```
--concurrency 100 \  
--timeout 60s \  
--port 3000 \  
--set-env-vars NEXT_PUBLIC_API_URL=https://bilko-api-762788903040.europe-  
north1.run.app/api/v1,NEXT_TELEMETRY_DISABLED=1 \  
--project=tribal-sign-487920-k0
```

Step 4: Verify Deployment

```
# Check revisions  
gcloud run revisions list \  
  --service bilko-web \  
  --region europe-north1 \  
  --project=tribal-sign-487920-k0 \  
  --limit=5  
  
# Verify traffic routing (should show 100% on latest revision)  
gcloud run services describe bilko-web \  
  --region europe-north1 \  
  --project=tribal-sign-487920-k0 \  
  --format='value(status.traffic)'
```

Post-Deploy Evidence Gate (ZAKON PI2 Check 5)

MC task CANNOT move to `done` without ALL three:

1. **curl checks:** Paste output showing HTTP 200 for expected routes

```
curl -sI https://bilko-demo.alai.no | head -3  
curl -sI https://bilko-demo.alai.no/invoices/new | head -3  
curl -sI https://bilko-demo.alai.no/settings | head -3  
curl -sI https://bilko-demo.alai.no/intesa-bridge | head -3 # Should be 404
```

2. **Playwright screenshots:** Stored in `docs/evidence/<task-id>/*.png`
 - Home page
 - Feature verified (e.g., invoice template save button)
 - Any isolation checks (e.g., 404 for client routes on main)

3. **verification.json**: Machine-readable evidence file

```
{
  "task_id": 8730,
  "timestamp": "2026-04-22T21:41:10Z",
  "revision": "bilko-web-00019-7tl",
  "traffic_100_percent": true,
  "curl_checks": { "home": 200, "intesa-bridge": 404, ... },
  "playwright_pass": true,
  "screenshots": ["home.png", "invoices-new.png", ...]
}
```

Deploy Flow Diagram

flowchart LR

```
A[Code Change] --> B{CI Healthy?}
B -->|Yes| C[CI: Build + Push]
B -->|No| D[Manual Build]
C --> E[Artifact Registry]
D --> E
E --> F[Cloud Run Deploy]
F --> G{Traffic Routing}
G -->|100%| H[Live]
G -->|0%| I[Blocked - Check --no-traffic flag]
H --> J[Evidence Gate]
J --> K{All 3 checks pass?}
K -->|Yes| L[MC task done]
K -->|No| M[Block - Add evidence]
```

Known Issues + Workarounds

Issue 1: CI broken since 2026-04-15

Symptom: All main branch pushes fail at deploy step

Root cause: GitHub Actions quota + `--no-traffic` flag

Workaround: Use manual deploy path above

Issue 2: Intesa content leaked to public URL (fixed 2026-04-22)

Symptom: `/intesa-bridge` route returned 200 on bilko-demo.alai.no

Root cause: Intesa feature branch merged to main

Fix: Deleted intesa routes from main (commit 66d2220) + added branch-purity.yml CI check

Issue 3: Manual paste-copy anti-pattern

Symptom: CEO had to manually paste docker build output and gcloud commands

Root cause: FlowForge task dispatched after image built locally

Fix: Always dispatch FlowForge BEFORE build step, let agent own full flow

Branch Purity Rules

Client-specific routes MUST NOT appear on main. Reserved prefixes:

- `intesa-*` → feat/intesa-bih-demo → bilko-intesa-demo Cloud Run
- `corpint-*` → TBD client branch → TBD Cloud Run service

CI Enforcement: `.github/workflows/branch-purity.yml` runs on every PR to main:

```
find apps/web/app -type d \( -name "intesa-*" -o -name "corpint-*" \) | grep . && exit 1 ||  
exit 0
```

Registry: `~/system/rules/client-prefix-registry.md`

Domain Mapping

- **bilko-demo.alai.no** → Cloud Run service `bilko-web` (configured via GCP Console)
- **DNS:** Cloudflare proxy enabled
- **Mapping verified:** 2026-04-22

Related Documentation

- **DEPLOY-MAP.md:** `/Users/makinja/ALAI/products/Bilko/DEPLOY-MAP.md`
- **Incident Postmortem:** BookStack → ALAI / Incidents / incident-2026-04-22-bilko-deploy-fix

- **ZAKON PI2:** `~/system/rules/zakon-pi2-deploy-verification.md`
- **CI Workflow:** `.github/workflows/gcp-deploy.yml`
- **Dockerfile:** `apps/web/Dockerfile`

Escalation

Owner: FlowForge

Escalate to: John → pi-orchestrator

MC category: `devops` + `priority: H`

Created by ALAI Skillforge, 2026-04-22

Revision #2

Created 2026-04-22 21:57:45 UTC by John

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