

# Deployment Guide

## Bilko Deployment Guide

**Last Updated:** 2026-04-16

**Current State:** Stable Cloud Run deployment with custom domain provisioning

### GCP Project Configuration

- **Project ID:** `tribal-sign-487920-k0`
- **Region:** `eu-north1` (Stockholm)
- **Services:**
  - `bilko-api` → `https://bilko-api-dh4m46blja-lz.a.run.app` (revision 00037)
  - `bilko-web` → `https://bilko-web-dh4m46blja-lz.a.run.app`

### Secret Manager

Secret Name	Version	Purpose
<code>bilko-cors-origins</code>	v2	Comma-separated list of allowed CORS origins
<code>bilko-database-url</code>	latest	Cloud SQL connection string (password reset 2026-04-16)
<code>bilko-jwt-refresh-secret</code>	latest	JWT refresh token secret

**CORS Parsing:** Secret `bilko-cors-origins` is parsed by comma in `apps/api/src/app.ts:61`

### Environment Variables

#### bilko-web

- `NEXT_PUBLIC_API_URL=https://bilko-api-dh4m46blja-lz.a.run.app`



```
--domain=bilko-demo.alai.no \  
--region=europe-north1 \  
--project=tribal-sign-487920-k0
```

## 2. Configure DNS

Add CNAME record at DNS provider:

```
Type: CNAME  
Host: bilko-demo  
Value: ghs.googlehosted.com.  
TTL: 3600
```

## 3. Wait for Certificate Provisioning

```
gcloud beta run domain-mappings describe bilko-demo.alai.no \  
--region=europe-north1 \  
--project=tribal-sign-487920-k0
```

Look for `status.conditions → CertificateProvisioned: True`

## 4. Update CORS Allowed Origins

```
# Get current value  
gcloud secrets versions access latest --secret=bilko-cors-origins  
  
# Add new domain  
echo "https://bilko-demo.alai.no,https://bilko-web-dh4m46blja-lz.a.run.app" | \  
gcloud secrets versions add bilko-cors-origins --data-file=-
```

## 5. Deploy New Revision

```
gcloud run services update-traffic bilko-api \  
--to-latest \  
--region=europe-north1 \  
--project=tribal-sign-487920-k0
```

## 6. Verify CORS Preflight

```
curl -sSI -X OPTIONS \  
https://bilko-api-dh4m46blja-lz.a.run.app/api/v1/auth/login \  
-H "Origin: https://bilko-demo.alai.no" \  
-
```

```
-H "Access-Control-Request-Method: POST"
```

**Expected:** HTTP 204 with `Access-Control-Allow-Origin: https://bilko-demo.alai.no`

# GitHub Actions CI/CD

- **Workflow:** `.github/workflows/deploy-production.yml`
- **Auth:** Workload Identity Federation (WIF)
- **Service Account:** `github-actions@tribal-sign-487920-k0.iam.gserviceaccount.com`
- **IAM Roles:** `roles/run.admin`, `roles/iam.serviceAccountUser`

## Deployment Steps

1. Authenticate via WIF
2. Build Docker images (api + web)
3. Push to Google Container Registry
4. Deploy to Cloud Run (europe-north1)
5. Run smoke tests (Playwright E2E)

## Testing

### Backend Tests

- **Framework:** Vitest
- **Location:** `apps/api/src/**/*.test.ts`
- **Command:** `pnpm test` (from `apps/api/`)

### End-to-End Tests

- **Framework:** Playwright
- **Location:** `apps/e2e/tests/`
- **Command:** `pnpm test` (from `apps/e2e/`)
- **Runs in CI:** Yes (on every deploy)

## Recent Fixes (2026-04-16)

### Commits

- `a62b7f6` — Cloud Run service names align: `bilko-staging-*` → `bilko-*`
- `9b1ced1` — Backend: added `currency` field to invoice list, added `/api/v1/settings/profile` endpoint
- `73693d4` — Frontend: avatar initials fallback, invoice step indicator, chat widget ARIA labels

## Key Changes

1. **Service Naming:** Production services now named `bilko-api` and `bilko-web` (no `-staging` suffix)
2. **API Enhancements:** Invoice list now includes currency, new profile settings endpoint
3. **Frontend Fixes:** Accessibility improvements (ARIA), avatar initials when no image, visual polish

## Rollback Procedure

### Rollback to Previous Revision

```
# List revisions
gcloud run revisions list --service=bilko-api --region=europe-north1

# Rollback
gcloud run services update-traffic bilko-api \
  --to-revisions=bilko-api-00036=100 \
  --region=europe-north1
```

### Rollback via GitHub Actions

```
git revert HEAD
git push origin main # Triggers deploy workflow
```

## Troubleshooting

### Issue: CORS errors in browser

**Cause:** Custom domain not in `bilko-cors-origins` secret

**Fix:** Update secret (see step 4 in Custom Domain Runbook), deploy new revision

# Issue: 502 Bad Gateway

**Cause:** Service unhealthy or startup timeout

**Fix:** Check Cloud Run logs: `gcloud run services logs read bilko-api --region=europe-north1 --limit=50`

# Issue: Database connection timeout

**Cause:** Cloud SQL Proxy misconfiguration or secret outdated

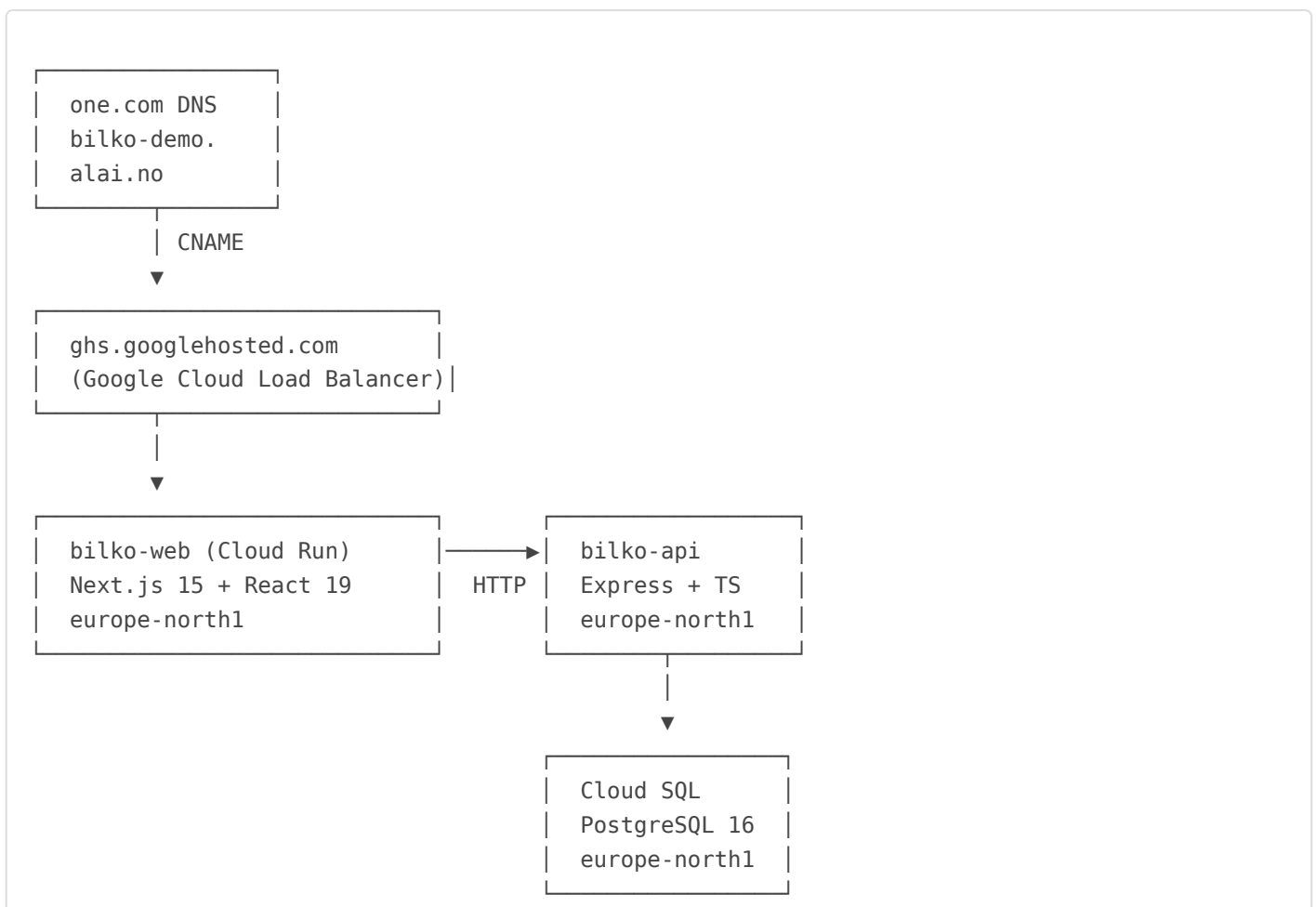
**Fix:** Verify `bilko-database-url` secret, check Cloud SQL instance status

# Issue: Custom domain SSL pending

**Cause:** DNS not propagated or domain not verified in Search Console

**Fix:** Wait 15-30 min after DNS change, verify domain ownership in Search Console

# Architecture Diagram



Updated 2026-05-24 20:01:37 UTC by John