

MC #105153 — API write bucket stage E2E rate-limit override

MC #105153 — Bilko API write bucket 429 stage E2E

Scope

Fix authenticated `api` rate-limit bucket 429s on stage E2E for sentinel contact create and instant-demo write-protection probes, while preserving production defaults.

Changes verified on disk

- `apps/api/src/main/kotlin/no/alai/bilko/plugins/RateLimit.kt`
 - Added `apiRateLimitConfig(perMinuteEnv)` parser.
 - `RateLimitName("api")` now uses `API_RATE_LIMIT_PER_MINUTE` with default `100`.
- `apps/api/src/test/kotlin/no/alai/bilko/plugins/RateLimitTest.kt`
 - Added tests for default `100`, stage override `500`, invalid fallback `100`.
- `azure-pipelines.yml`
 - Stage ACA deploy sets `API_RATE_LIMIT_PER_MINUTE=500` for `bilko-api-stage`.
- `.github/workflows/azure-stage.yml`
 - Stage ACA deploy sets `API_RATE_LIMIT_PER_MINUTE=500`.
- `.env.example`
 - Documents `API_RATE_LIMIT_PER_MINUTE`, `AUTH_RATE_LIMIT_PER_MINUTE`, `DEMO_RATE_LIMIT_PER_MINUTE`, `DEMO_RATE_LIMIT_PER_HOUR` defaults.
- `infrastructure/gcp/ENV-MATRIX.md`
 - Documents stage-only `API_RATE_LIMIT_PER_MINUTE=500`; demo/prod default/absent.

Verification — 2026-07-09T23:07Z

Command run from `apps/api`:

```
./gradlew test --tests no.alai.bilko.plugins.RateLimitTest --rerun-tasks
```

Result: BUILD SUCCESSFUL in 21s, 7 actionable tasks: 7 executed.

JUnit XML evidence:

```
apps/api/build/test-results/test/TEST-no.alai.bilko.plugins.RateLimitTest.xml
<testsuite name="no.alai.bilko.plugins.RateLimitTest" tests="22" skipped="0" failures="0"
errors="0" ...>
```

Static presence check:

```
grep -n "API_RATE_LIMIT_PER_MINUTE" \
  apps/api/src/main/kotlin/no/alai/bilko/plugins/RateLimit.kt \
  apps/api/src/test/kotlin/no/alai/bilko/plugins/RateLimitTest.kt \
  azure-pipelines.yml .github/workflows/azure-stage.yml \
  infrastructure/gcp/ENV-MATRIX.md .env.example
```

Observed paths/lines:

- apps/api/src/main/kotlin/no/alai/bilko/plugins/RateLimit.kt:115
- apps/api/src/main/kotlin/no/alai/bilko/plugins/RateLimit.kt:125
- azure-pipelines.yml:527
- .github/workflows/azure-stage.yml:181
- infrastructure/gcp/ENV-MATRIX.md:36
- .env.example:70

Production-safety note

Production default remains unchanged: absent/invalid `API_RATE_LIMIT_PER_MINUTE` resolves to `100`, and only stage deploy config sets `API_RATE_LIMIT_PER_MINUTE=500`.

P2P pre-verifier

- PASS: mesh-thr-77df628b-c7b4-4c5e-a3ff-1825826bb7f9 / mesh-msg-f642fa23-cb94-476f-af4b-01a63f386be2
- Evidence JSON: /tmp/alai/company-mesh-auto-responder/2026-07-09T23-10-17-743Z-mesh-msg-f1bd06a1-d6a6-4b9d-84b8-e60304ecfc39.json

Revision #2

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