

Bilko ACA Telemetry & Observability Wiring (Azure)

Context

GCP Cloud Monitoring dashboard (070613fa) was decommissioned 2026-06-23 after migration to Azure (MC #104228 closed). This page documents the ACA→Log Analytics + App Insights telemetry wiring done as follow-on MC #104266.

Resources

- **Container App Environment:** `bilko-demo-env` (NOTE: `purplebeach-f004d490` is only the default-domain suffix in app URLs, not the env name).
- **Log Analytics workspace:** `workspace-rgbilkodemo6lnV`, customerId `71443731-9feb-41b1-9e27-fff4e4ebf098`.
- **App Insights:** `appi-bilko`, appId `69e12981-9ebb-47ef-9dbd-5cf69fa87c40`.
- **Workbook:** `dcaef4e3-9bc7-48ae-8e1b-bd382a73889e` "Bilko Observability — Prod+Stage (Azure)".
- **4 ACA apps:** `bilko-api-demo`, `bilko-web-demo`, `bilko-api-stage`, `bilko-web-stage`.

Root cause that was fixed

ACA env `appLogsConfiguration.destination` was not effectively set → ContainerApp logs not reaching the workspace. Fixed via:

```
az containerapp env update -n bilko-demo-env -g rg-bilko-demo --logs-destination log-analytics --logs-workspace-id 71443731-... --logs-workspace-key <key>
```

Result: ContainerAppSystemLogs_CL now flows (tool-verified 54 rows/15m, sustained).

App Insights instrumentation

Each ACA app needs env var `APPLICATIONINSIGHTS_CONNECTION_STRING` (from `az monitor app-insights component show -g rg-bilko-demo -n appi-bilko --query connectionString -o tsv`), set via `az containerapp update -n <app> -g rg-bilko-demo --set-env-vars APPLICATIONINSIGHTS_CONNECTION_STRING=<value>`. All 4 apps confirmed set.

KNOWN REMAINING GAP (important for runbook)

Setting the env var ALONE does not produce App Insights request/dependency telemetry — `requests` table = 0. The app code must initialize the App Insights SDK (Node: `applicationinsights` package; Spring Boot: `azure-monitor starter`). Until then, App-Insights-request-based workbook panels stay empty. The KQL log panel (`ContainerAppSystemLogs_CL`) and ACA platform-metric panels work regardless. Track app-code SDK init as a separate CodeCraft task if request tracing is needed.

Troubleshooting note

`az monitor log-analytics query` returns a FLAT array `[{col:val}]` — do NOT filter with `--query "tables[0].rows"` (returns empty falsely). `az monitor app-insights query` uses `{tables:[{rows}]}` shape.

Verification queries (runbook)

- **Logs:** `ContainerAppSystemLogs_CL | where TimeGenerated > ago(20m) | count` (workspace 71443731) — expect >0.
- **Env vars:** `az containerapp show -g rg-bilko-demo -n <app> --query "properties.template.containers[0].env[?name=='APPLICATIONINSIGHTS_CONNECTION_STRING']"`.
- **Availability:** `availabilityResults` pass rate on `appi-bilko`.

Related

- MC #104266 (completed 2026-06-23)
- MC #104228 (GCP decommission, closed)
- Azure subscription: 5b0b4d9b-e677-464e-abf0-5170cbce3b8e
- Resource group: rg-bilko-demo (swedencentral)

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