

Runbook: Observability for Azure OpenAI (Key Metrics + KQL Starter Pack)

Last updated: 2026-01-23

Purpose

Provide a baseline observability approach for Azure OpenAI usage: latency, errors, token usage, throttling, and top callers.

Golden Signals

Signal	Goal	Where
Latency	P50/P95 stable	App Insights / logs
Traffic	Requests per minute	App logs / API gateway
Errors	4xx/5xx ratio low	AzureDiagnostics / App logs
Saturation	TPM/quota headroom	Azure OpenAI metrics / logs

KQL – Errors by Model

```
AzureDiagnostics
| where ResourceProvider == "MICROSOFT.COGNITIVESERVICES"
| summarize Errors=countif(ResultType != "Success"), Total=count() by ModelName_s,
bin(TimeGenerated, 5m)
| extend ErrorRate = todouble(Errors) / todouble(Total)
```

KQL – Throttling (429) Trend

```
AzureDiagnostics
| where ResultSignature == "429"
| summarize count() by bin(TimeGenerated, 5m), ModelName_s
```

Operational Guidance

- Alert when 429 count exceeds baseline or when P95 latency exceeds SLO.
- Segment by model, client app, environment, and region.
- Use dashboards to track token burn rate and predict quota exhaustion.