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OTLP HTTP exporters read unbounded HTTP response bodies

Moderate dashpole published [GHSA-w8rr-5gcm-pp58](#) 7 hours ago

Package

[go.opentelemetry.io/otel/exporters/otlp/otlplog/otlploghttp](#) [\(Go\)](#)

Affected versions

< v0.19.0

Patched versions

v0.19.0

[go.opentelemetry.io/otel/exporters/otlp/otlpmetric/otlpmetrichttp](#) [\(Go\)](#)

< v1.43.0

v1.43.0

[go.opentelemetry.io/otel/exporters/otlp/otlptrace/otlptracehttp](#) [\(Go\)](#)

< v1.43.0

v1.43.0

Description

overview:

this report shows that the otlp HTTP exporters (traces/metrics/logs) read the full HTTP response body into an in-memory `bytes.Buffer` without a size cap.

this is exploitable for memory exhaustion when the configured collector endpoint is attacker-controlled (or a network attacker can mitm the exporter connection).

severity

HIGH

not claiming: this is a remote dos against every default deployment.

claiming: if the exporter sends traces to an untrusted collector endpoint (or over a network segment where mitm is realistic), that endpoint can crash the process via a large response body.

callsite (pinned):

- `exporters/otlp/otlptrace/otlptracehttp/client.go:199`

- exporters/otlp/otlptrace/otlptracehttp/client.go:230
- exporters/otlp/otlpmetric/otlpmetrichttp/client.go:170
- exporters/otlp/otlpmetric/otlpmetrichttp/client.go:201
- exporters/otlp/otlplog/otlploghttp/client.go:190
- exporters/otlp/otlplog/otlploghttp/client.go:221

permalinks (pinned):

- [opentelemetry-go/exporters/otlp/otlptrace/otlptracehttp/client.go](#)
Line 199 in [248da95](#)
199 **if** _, err := io.Copy(&respData, resp.Body); err != nil {
- [opentelemetry-go/exporters/otlp/otlptrace/otlptracehttp/client.go](#)
Line 230 in [248da95](#)
230 **if** _, err := io.Copy(&respData, resp.Body); err != nil {
- [opentelemetry-go/exporters/otlp/otlpmetric/otlpmetrichttp/client.go](#)
Line 170 in [248da95](#)
170 **if** _, err := io.Copy(&respData, resp.Body); err != nil {
- [opentelemetry-go/exporters/otlp/otlpmetric/otlpmetrichttp/client.go](#)
Line 201 in [248da95](#)
201 **if** _, err := io.Copy(&respData, resp.Body); err != nil {
- [opentelemetry-go/exporters/otlp/otlplog/otlploghttp/client.go](#)
Line 190 in [248da95](#)
190 **if** _, err := io.Copy(&respData, resp.Body); err != nil {
- [opentelemetry-go/exporters/otlp/otlplog/otlploghttp/client.go](#)
Line 221 in [248da95](#)
221 **if** _, err := io.Copy(&respData, resp.Body); err != nil {

root cause:

each exporter client reads `resp.Body` using `io.Copy(&respData, resp.Body)` into a `bytes.Buffer` on both success and error paths, with no upper bound.

impact:

a malicious collector can force large transient heap allocations during export (peak memory scales with attacker-chosen response size) and can potentially crash the instrumented process (oom).

affected component:

- go.opentelemetry.io/otel/exporters/otlp/otlptrace/otlptracehttp
- go.opentelemetry.io/otel/exporters/otlp/otlpmetric/otlpmetrichttp
- go.opentelemetry.io/otel/exporters/otlp/otlplog/otlploghttp

repro (local-only):

```
unzip poc.zip -d poc
cd poc
make canonical resp_bytes=33554432 chunk_delay_ms=0
```



expected output contains:

```
[CALLSITE_HIT]: otelprctracehttp.UploadTraces::io.Copy(resp.Body)
[PROOF_MARKER]: resp_bytes=33554432 peak_alloc_bytes=118050512
```



control (same env, patched target):

```
unzip poc.zip -d poc
cd poc
make control resp_bytes=33554432 chunk_delay_ms=0
```



expected control output contains:

```
[CALLSITE_HIT]: otelprctracehttp.UploadTraces::io.Copy(resp.Body)
[NC_MARKER]: resp_bytes=33554432 peak_alloc_bytes=512232
```



attachments: poc.zip (attached)

[PR_DESCRIPTION.md](#)

[attack_scenario.md](#)

[poc.zip](#)

Fixed in: [#8108](#)

Severity

Moderate 5.3 / 10

CVSS v3 base metrics

Attack vector	Adjacent
Attack complexity	High
Privileges required	None
User interaction	None
Scope	Unchanged
Confidentiality	None

Integrity

None

Availability

High

[Learn more about base metrics](#)

CVSS:3.1/AV:A/AC:H/PR:N/UI:N/S:U/C:N/I:N/A:H

CVE ID

CVE-2026-39882

Weaknesses

▶ CWE-789

Credits



1seal

Reporter



pellared

Remediation developer