#### **METRICS**

```
S C:\Users\tejas\OneDrive\Desktop\SkillUp\Banking APP> (Invoke-WebRequest -Uri "http://localhost:3001/api/metri
     -UseBasicParsing).Content
# HELP process_cpu_user_seconds_total Total user CPU time spent in seconds.
# TYPE process_cpu_user_seconds_total counter
process_cpu_user_seconds_total 1.445614
# HELP process_cpu_system_seconds_total Total system CPU time spent in seconds.
# TYPE process_cpu_system_seconds_total counter
process_cpu_system_seconds_total 0.385104
\# HELP process_cpu_seconds_total Total user and system CPU time spent in seconds.
# TYPE process_cpu_seconds_total counter
process_cpu_seconds_total 1.830718
# HELP process_start_time_seconds Start time of the process since unix epoch in seconds. # TYPE process_start_time_seconds gauge
process start time seconds 1759065327
# HELP process_resident_memory_bytes Resident memory size in bytes.
# TYPE process resident memory bytes gauge
process_resident_memory_bytes 103612416
# HELP process_virtual_memory_bytes Virtual memory size in bytes.
# TYPE process_virtual_memory_bytes gauge
process_virtual_memory_bytes 11116204032
# HELP process_heap_bytes Process heap size in bytes.
# TYPE process_heap_bytes gauge
process_heap_bytes 125198336
\# HELP process_open_fds Number of open file descriptors.
# TYPE process_open_fds gauge
process_open_fds 23
# HELP process_max_fds Maximum number of open file descriptors.
# TYPE process_max_fds gauge
process max fds 1048576
   <code>HELP</code> node\mathsf{js}_eventloop_lag_seconds Lag of event loop in seconds.
# TYPE nodejs_eventloop_lag_seconds gauge
nodejs_eventloop_lag_seconds 0.011311629
# HELP nodejs_eventloop_lag_min_seconds The minimum recorded event loop delay.
# TYPE nodejs_eventloop_lag_min_seconds gauge
nodejs_eventloop_lag_min_seconds 0.00909312
# HELP nodejs_eventloop_lag_max_seconds The maximum recorded event loop delay.
# TYPE nodejs_eventloop_lag_max_seconds gauge
nodejs_eventloop_lag_max_seconds 0.012345343
# HELP nodejs_eventloop_lag_mean_seconds The mean of the recorded event loop delays.
# TYPE nodejs_eventloop_lag_mean_seconds gauge
nodejs_eventloop_lag_mean_seconds 0.010240691502532357
# HELP nodejs_eventloop_lag_stddev_seconds The standard deviation of the recorded event loop delays.
# TYPE nodejs_eventloop_lag_stddev_seconds gauge
nodejs_eventloop_lag_stddev_seconds 0.0001392707234402728
# HELP nodejs_eventloop_lag_p50_seconds The 50th percentile of the recorded event loop delays. # TYPE nodejs_eventloop_lag_p50_seconds gauge
nodejs_eventloop_lag_p50_seconds 0.010231807
# HELP nodejs_eventloop_lag_p90_seconds The 90th percentile of the recorded event loop delays.
# TYPE nodejs_eventloop_lag_p90_seconds gauge
nodejs_eventloop_lag_p90_seconds 0.010379263
# HELP nodejs_eventloop_lag_p99_seconds The 99th percentile of the recorded event loop delays.
# TYPE nodejs_eventloop_lag_p99_seconds gauge
nodejs_eventloop_lag_p99_seconds 0.010518527
# HELP nodejs_active_resources Number of active resources that are currently keeping the event loop alive, groupe d by async resource type.
# TYPE nodejs_active_resources gauge
"" THE HOURS ACTIVE resources gauge node;s_active_resources{type="TPSocketWrap"} 2 node;s_active_resources{type="TCPSocketWrap"} 4 node;s_active_resources{type="TCPServerWrap"} 1 node;s_active_resources{type="Immediate"} 1
# HELP nodejs_active_resources_total Total number of active resources.
# TYPE nodejs_active_resources_total gauge
```

```
# HELP nodejs_active_handles Number of active libuv handles grouped by handle type. Every handle type is C++ clas
 # TYPE nodejs_active_handles gauge
 nodejs_active_handles{type="Socket"} 6
nodejs_active_handles{type="Server"} 1
 # HELP nodejs_active_handles_total Total number of active handles.
# TYPE nodejs_active_handles_total gauge
nodejs_active_handles_total 7
  # HELP nodejs_active_requests Number of active libuv requests grouped by request type. Every request type is C++
 class name
 # TYPE nodejs_active_requests gauge
 # HELP nodejs_active_requests_total Total number of active requests.
# TYPE nodejs_active_requests_total gauge
nodejs_active_requests_total 0
  # HELP nodejs_heap_size_total_bytes Process heap size from Node.js in bytes.
  # TYPE nodejs_heap_size_total_bytes gauge
 nodejs_heap_size_total_bytes 41132032
 # HELP nodejs_heap_size_used_bytes Process heap size used from Node.js in bytes.
# TYPE nodejs_heap_size_used_bytes gauge
nodejs_heap_size_used_bytes 38263360
  # HELP nodejs_external_memory_bytes Node.js external memory size in bytes.
  # TYPE nodejs_external_memory_bytes gauge
 nodejs_external_memory_bytes 3110963
# HELP nodejs_heap_space_size_total_bytes Process heap space size total from Node.js in bytes.
# TYPE nodejs_heap_space_size_total_bytes gauge
nodejs_heap_space_size_total_bytes{space="read_only"} 0
nodejs_heap_space_size_total_bytes{space="old"} 34230272
nodejs_heap_space_size_total_bytes{space="code"} 2306048
nodejs_heap_space_size_total_bytes{space="map"} 2367488
nodejs_heap_space_size_total_bytes{space="map"} 2367488
 nodejs_heap_space_size_total_bytes{space="map" } 236/488
nodejs_heap_space_size_total_bytes{space="large_object"} 1179648
nodejs_heap_space_size_total_bytes{space="rode large_object"} 0
nodejs_heap_space_size_total_bytes{space="new_large_object"} 0
nodejs_heap_space_size_total_bytes{space="new"} 1048576
  # HELP nodejs_heap_space_size_used_bytes Process heap space size used from Node.js in bytes.
# HELP nodejs_heap_space_size_used_bytes gauge
nodejs_heap_space_size_used_bytes gauge
nodejs_heap_space_size_used_bytes{space="read only"} 0
nodejs_heap_space_size_used_bytes{space="read only"} 32856904
nodejs_heap_space_size_used_bytes{space="code"} 2037888
nodejs_heap_space_size_used_bytes{space="mapm"} 1249632
nodejs_heap_space_size_used_bytes{space="large_object"} 1150568
nodejs_heap_space_size_used_bytes{space="rode_large_object"} 0
nodejs_heap_space_size_used_bytes{space="new_large_object"} 0
nodejs_heap_space_size_used_bytes{space="new"} 973480
 # HELP nodejs_heap_space_size_available_bytes Process heap space size available from Node.js in bytes.
# TYPE nodejs_heap_space_size_available_bytes {space="read_only"} 0
nodejs_heap_space_size_available_bytes{space="rold"} 710824
nodejs_heap_space_size_available_bytes{space="code"} 120704
nodejs_heap_space_size_available_bytes{space="code"} 7712552
nodejs_heap_space_size_available_bytes{space="mapp"} 712552
nodejs_heap_space_size_available_bytes{space="large_object"} 0
  nodejs_heap_space_size_available_bytes{space="large_object"} 0
nodejs_heap_space_size_available_bytes{space="code_large_object"} 0
  nodejs_heap_space_size_available_bytes{space="new large object"} 1030976
nodejs_heap_space_size_available_bytes{space="new"} 57496
  # HELP nodejs_version_info Node.js version info.
 # TYPE nodejs version info gauge
nodejs_version_info{version="v18.20.8",major="18",minor="20",patch="8"} 1
  # HELP nodejs_gc_duration_seconds Garbage collection duration by kind, one of major, minor, incremental or weakcb
# TYPE nodejs_g_duration_seconds histogram
nodejs_gc_duration_seconds_bucket{le="0.001",kind="minor"} 0
nodejs_gc_duration_seconds_bucket{le="0.01",kind="minor"} 0
nodejs_gc_duration_seconds_bucket{le="0.1",kind="minor"} 1
nodejs_gc_duration_seconds_bucket{le="1",kind="minor"} 1
nodejs_gc_duration_seconds_bucket{le="1",kind="minor"} 1
nodejs_gc_duration_seconds_bucket{le="5",kind="minor"} 1
nodejs_gc_duration_seconds_bucket{le="1",kind="minor"} 1
nodejs_gc_duration_seconds_bucket{le="1",kind="minor"} 1
nodejs_gc_duration_seconds_bucket{le="1",kind="minor"} 1
nodejs_gc_duration_seconds_bucket{le="4",0.01",kind="incremental"} 5
nodejs_gc_duration_seconds_bucket{le="0.01",kind="incremental"} 5
nodejs_gc_duration_seconds_bucket{le="0.1",kind="incremental"} 5
nodejs_gc_duration_seconds_bucket{le="0.1",kind="incremental"} 5
  # TYPE nodejs_gc_duration_seconds histogram
```

```
nodejs_gc_duration_seconds_bucket{le="0.001",kind="incremental"} 5
nodejs_gc_duration_seconds_bucket{le="0.01",kind="incremental"} 5
nodejs_gc_duration_seconds_bucket{le="0.1",kind="incremental"} 5
nodejs_gc_duration_seconds_bucket{le="1",kind="incremental"} 5
nodejs_gc_duration_seconds_bucket{le="2",kind="incremental"} 5
nodejs_gc_duration_seconds_bucket{le="5",kind="incremental"} 5
nodejs_gc_duration_seconds_bucket{le="+Inf",kind="incremental"} 5
nodejs_gc_duration_seconds_sum(kind="incremental"} 0.0012528389990329742
 nodejs_gc_duration_seconds_count{kind="incremental"} 5
nodejs_gc_duration_seconds_bucket{le="0.001",kind="major"} 0
nodejs_gc_duration_seconds_bucket{le="0.01",kind="major"} 1
nodejs_gc_duration_seconds_bucket{le="0.1",kind="major"} 2
node]s_gc_duration_seconds_bucket{le="1",kind="major"} 2
node]s_gc_duration_seconds_bucket{le="2",kind="major"} 2
node]s_gc_duration_seconds_bucket{le="2",kind="major"} 2
node]s_gc_duration_seconds_bucket{le="5",kind="major"} 2
 nodejs_gc_duration_seconds_bucket{le="+Inf",kind="major"} 2
 nodejs_gc_duration_seconds_sum{kind="major"} 0.034128913000226024 nodejs_gc_duration_seconds_count{kind="major"} 2
# HELP agent_latency_ms Agent execution latency in milliseconds
 # TYPE agent latency ms histogram
 # HELP tool_call_total Total number of tool_calls
 # TYPE tool call total counter
 # HELP agent fallback total Total number of agent fallbacks
 # TYPE agent_fallback_total counter
# HELP rate_limit_block_total Total number of rate limit blocks
 # TYPE rate_limit_block_total counter
 # HELP action_blocked_total Total number of blocked actions
# TYPE action blocked total counter
```

#### **REDACTED**

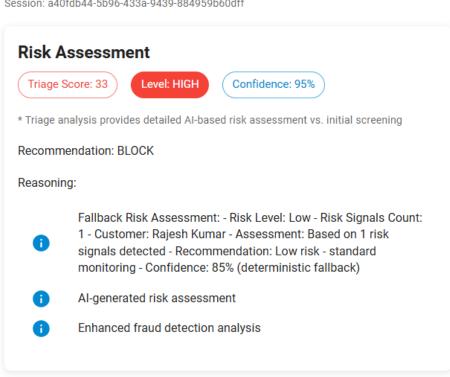
```
PS C:\Users\tejas\OneDrive\Desktop\SkillUp\Banking APP> docker logs bankingapp-backend --tail=20
[Nest] 18 - 09/28/2025, 1:15:31 PM
                                                  LOG [RouterExplorer] Mapped {/api/evals/metrics, GET} route +1ms
[Nest] 18 - 09/28/2025, 1:15:31 PM
[Nest] 18 - 09/28/2025, 1:15:31 PM
                                                  LOG [RoutesResolver] TracesController {/api/traces}: +0ms
LOG [RouterExplorer] Mapped {/api/traces/:sessionId, GET} route +0ms
             - 09/28/2025, 1:15:31 PM
[Nest] 18 - 09/28/2025, 1:15:31 PM
                                                  LOG [RouterExplorer] Mapped {/api/traces/:sessionId/download, GET} route
+0ms
[Nest] 18 - 09/28/2025, 1:15:31 PM
                                                  LOG [RoutesResolver] DashboardController {/api/dashboard}: +1ms
[Nest] 18 - 09/28/2025, 1:15:31 PM
                                                 LOG [RouterExplorer] Mapped {/api/dashboard/kpis, GET} route +0ms
[Nest] 18 - 09/28/2025, 1:15:31 PM
                                                  LOG [RouterExplorer] Mapped {/api/dashboard/fraud-triage, GET} route +0ms
[Nest] 18
[Nest] 18
             - 09/28/2025, 1:15:31 PM
- 09/28/2025, 1:15:31 PM
                                                 LOG [RoutesResolver] ObjectStoreController {/api/artifacts}: +0ms
LOG [RouterExplorer] Mapped {/api/artifacts/save, POST} route +1ms
[Nest] 18 - 09/28/2025, 1:15:31 PM
                                                 LOG [RouterExplorer] Mapped {/api/artifacts/:id, GET} route +0ms
                                                 LOG [RouterExplorer] Mapped {/api/artifacts/:id, DELETE} route +0ms
LOG [RouterExplorer] Mapped {/api/artifacts, GET} route +1ms
LOG [RouterExplorer] Mapped {/api/artifacts/trace, POST} route +0ms
[Nest] 18 - 09/28/2025, 1:15:31 PM
[Nest] 18 - 09/28/2025, 1:15:31 PM
             - 09/28/2025, 1:15:31 PM
[Nest] 18
             - 09/28/2025, 1:15:31 PM
[Nest] 18 - 09/28/2025, 1:15:31 PM
                                                  LOG [RouterExplorer] Mapped {/api/artifacts/report, POST} route +0ms
[Nest] 18 - 09/28/2025, 1:15:31 PM
[Nest] 18 - 09/28/2025, 1:15:31 PM
                                                  LOG [RouterExplorer] Mapped {/api/artifacts/export, POST} route +0ms
LOG [RouterExplorer] Mapped {/api/artifacts/stats/overview, GET} route +1
info: Redis connection established {"masked":true, "service": "aegis-support-api", "timestamp": "2025-09-28T13:15:31.
989Z"}
[Nest] 18 - 09/28/2025, 1:15:32 PM
                                                 LOG [NestApplication] Nest application successfully started +80ms
info: 🖋 Aegis Backend API running on port 3001 {"masked":true, "service": "aegis-support-api", "timestamp": "2025-09
 -28T13:15:32.026Z"}
info: 🤚 API Documentation available at http://localhost:3001/api/docs {"masked":true,"service":"aegis-support-ap
i","timestamp":"2025-09-28T13:15:32.029Z"}
```

### **TRACES**

# Fraud Triage Analysis

X

Customer: cust\_001 | Transaction: txn\_01001 Session: a40fdb44-5b96-433a-9439-884959b60dff



# **Risk Signals**

High transaction velocity: 2 transactions in the last hour
(2.0x normal rate)
velocity - low (1)



## **Knowledge Base References**

Query: "" (4 results)

Oand France Dane

# **Knowledge Base References**

Query: "" (4 results)

### Card Freeze Process

To freeze a card, verify customer identity first Check for recent transactions before freezing Always require OTP verification for security Confirm...

Relevance: 0% database

## Dispute Resolution

For unauthorized transactions, gather transaction details Verify customer identity before opening dispute Use reason code 10.4 for unauthorized tran...

Relevance: 0% database

## Travel Notice

Customers can set travel notices for international transactions

Travel notices help prevent false fraud alerts Valid for up to 90 days Can be set v...

Relevance: 0% database

