

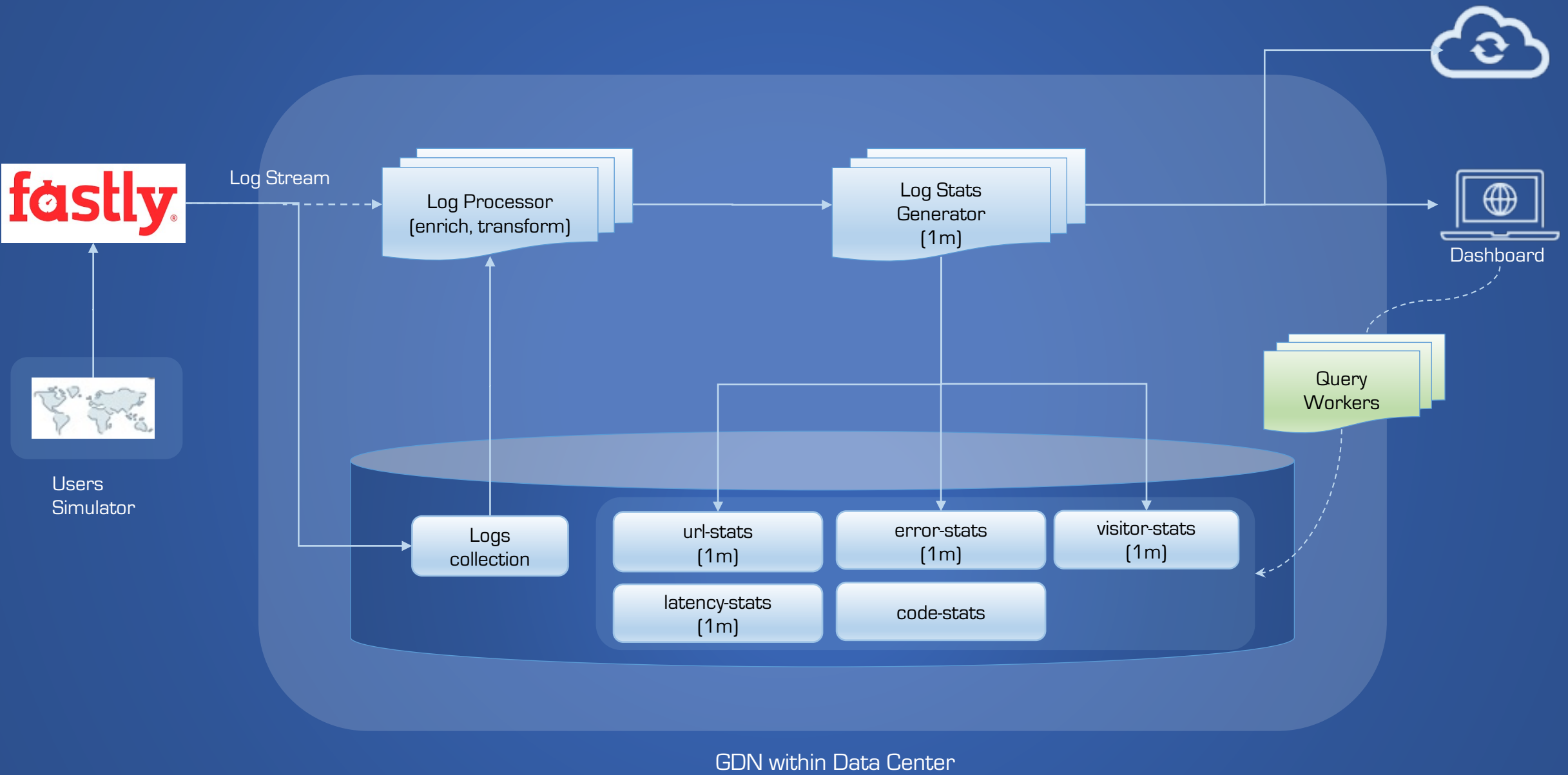


Realtime Log Analytics Fastly

P R I V A T E & C O N F I D E N T I A L

J U L Y 2 0 2 1

Demo Solution Architecture



Macrometa - Fastly Realtime Log Analytics

Realtime analytics with Stream workers and Query workers for Log data for Fastly

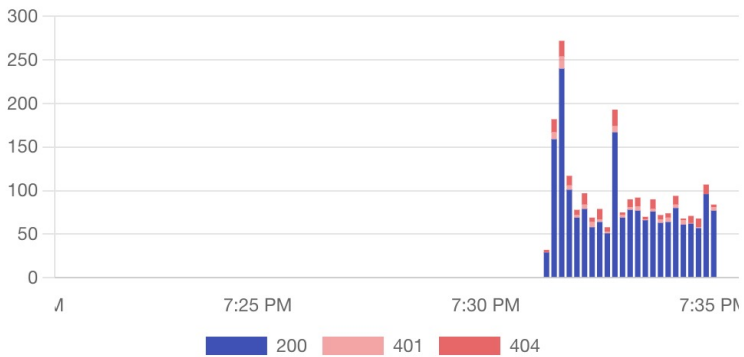
About

Start

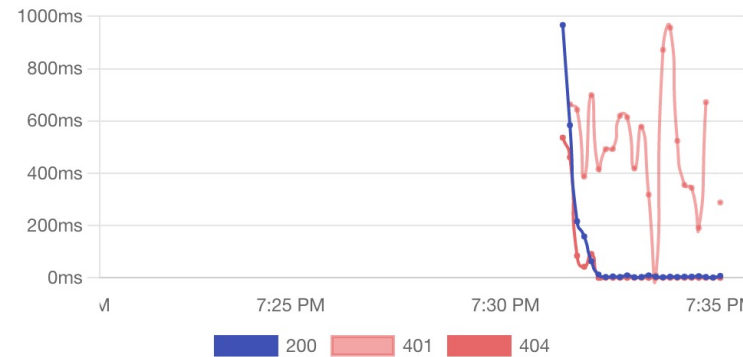
Stop

Clear

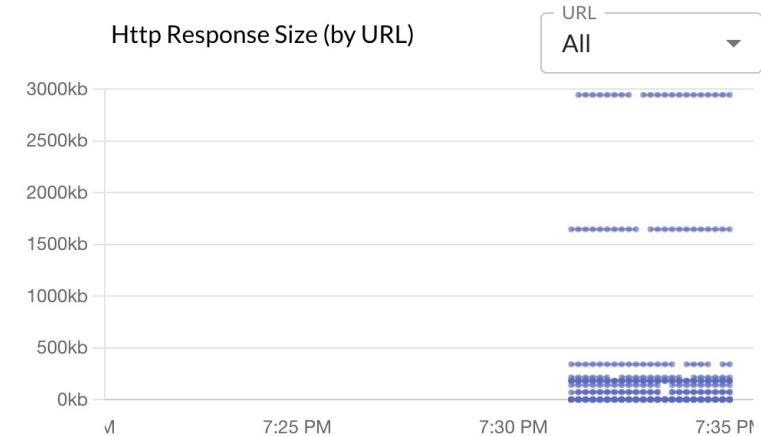
Http Response Count (by status code)



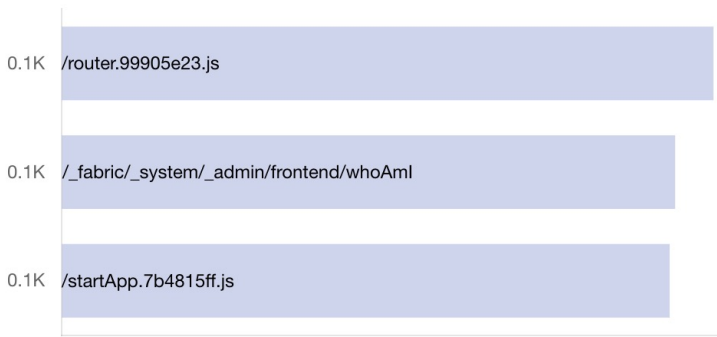
Http Response Latency (by status code)



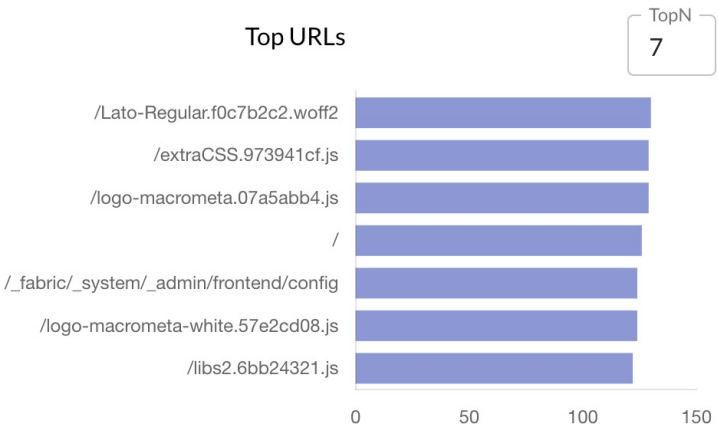
Http Response Size (by URL)



Top Erros (by URL)



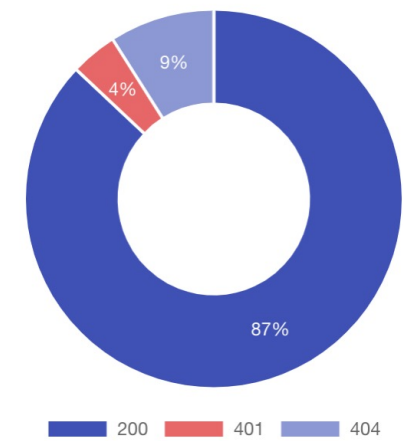
Top URLs



Unique Visitors



Ratio (by status code)



Log Stats Worker (Fragment)

```
@source(type="c8streams", stream.list="intermediate-stream", replication.type="global", @map(type='json'))
define stream IntermediateStream(request_10sec_timeframe long, request_timeStamp long, request_method string,
response_status int, url string, response_body_size long, latency long, country string, client_ip string);
```

```
@store(type="c8db", collection="http_response_code_stats_1m", @map(type='json'))
define table HttpResponseCodeStats1min(request_10sec_timeframe long, response_status int, count long);
```

```
@sink(type="c8streams", stream="http_response_code_stats_1m", replication.type="global", @map(type='json'))
define stream HttpResponseCodeStats1minStream(request_10sec_timeframe long, response_status int, count long);
```

-stream to count total number of request stats grouped by response_status for every 10 sec.

```
SELECT
    request_10sec_timeframe,
    response_status,
    count() as count
FROM IntermediateStream#window.externalTimeBatch(request_timeStamp, 10 sec, request_10sec_timeframe)
GROUP BY response_status
INSERT INTO HttpResponseCodeStats1minStream;
```

-Persist into db, the calculated total count of request stats grouped by response_status for every 10 sec.

```
SELECT
    request_10sec_timeframe,
    response_status,
    count() as count
FROM IntermediateStream#window.externalTimeBatch(request_timeStamp, 10 sec, request_10sec_timeframe)
GROUP BY response_status
INSERT INTO HttpResponseCodeStats1min;
```

Collections

Logs

```
{
  "client_ip": "176.58.100.180",
  "fastly_is_edge": true,
  "fastly_server": "cache-lcy19249-LCY",
  "geo_city": "London",
  "geo_country": "united kingdom",
  "host": "macrometa.global.ssl.fastly.net",
  "request_method": "GET",
  "request_protocol": "HTTP/1.1",
  "request_referer": "",
  "request_user_agent": "",
  "response_body_size": 141759,
  "response_reason": "OK",
  "response_state": "HIT-CLUSTER",
  "response_status": 200,
  "time_elapsed": 2178,
  "timestamp": "2021-07-22T19:28:42+0000",
  "url": "/router.605a0241.css"
}
```

URL Stats

```
{
  "count": 1,
  "timestamp": 1626980930000,
  "size": 71896,
  "url": "/fontawesome-webfont.d3e6a230.woff2"
}
```

Visitor Stats

```
{
  "client_ip": [
    "172.105.36.216"
  ],
  "country": "india",
  "timestamp": 1626980930000
}
```

Latency Stats

```
{
  "latency": 10757.6,
  "timestamp": 1626980930000,
  "status": 200
}
```

Error Stats

```
{
  "count": 2,
  "timestamp": 1626980930000,
  "url": "/router.99905e23.js"
}
```

Code Stats

```
{
  "count": 2,
  "timestamp": 1626980930000,
  "status": 404
}
```