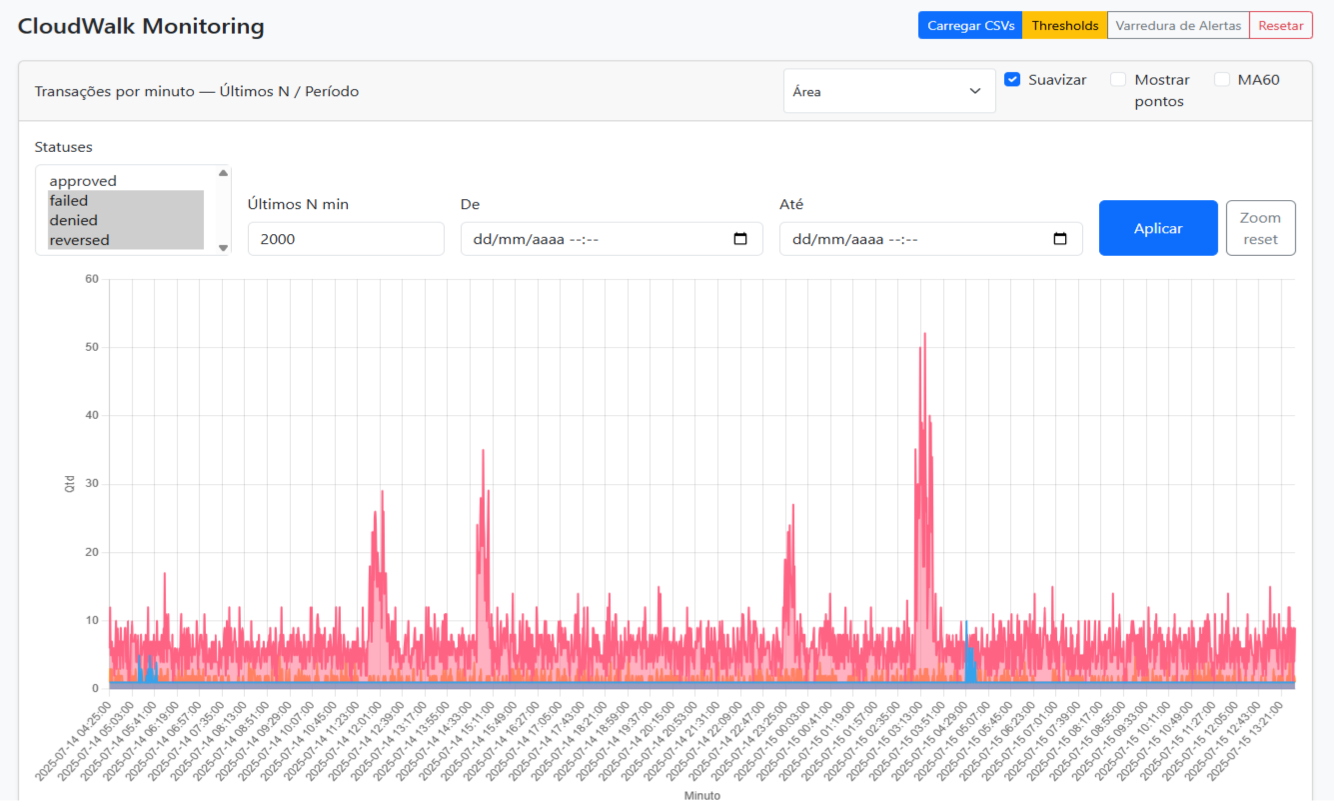
CloudWalk Monitoring Dashboard - Full Documentation

1. Transactions per Minute — Últimos N / Período



Área

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Statuses

approved
failed
denied
reversed

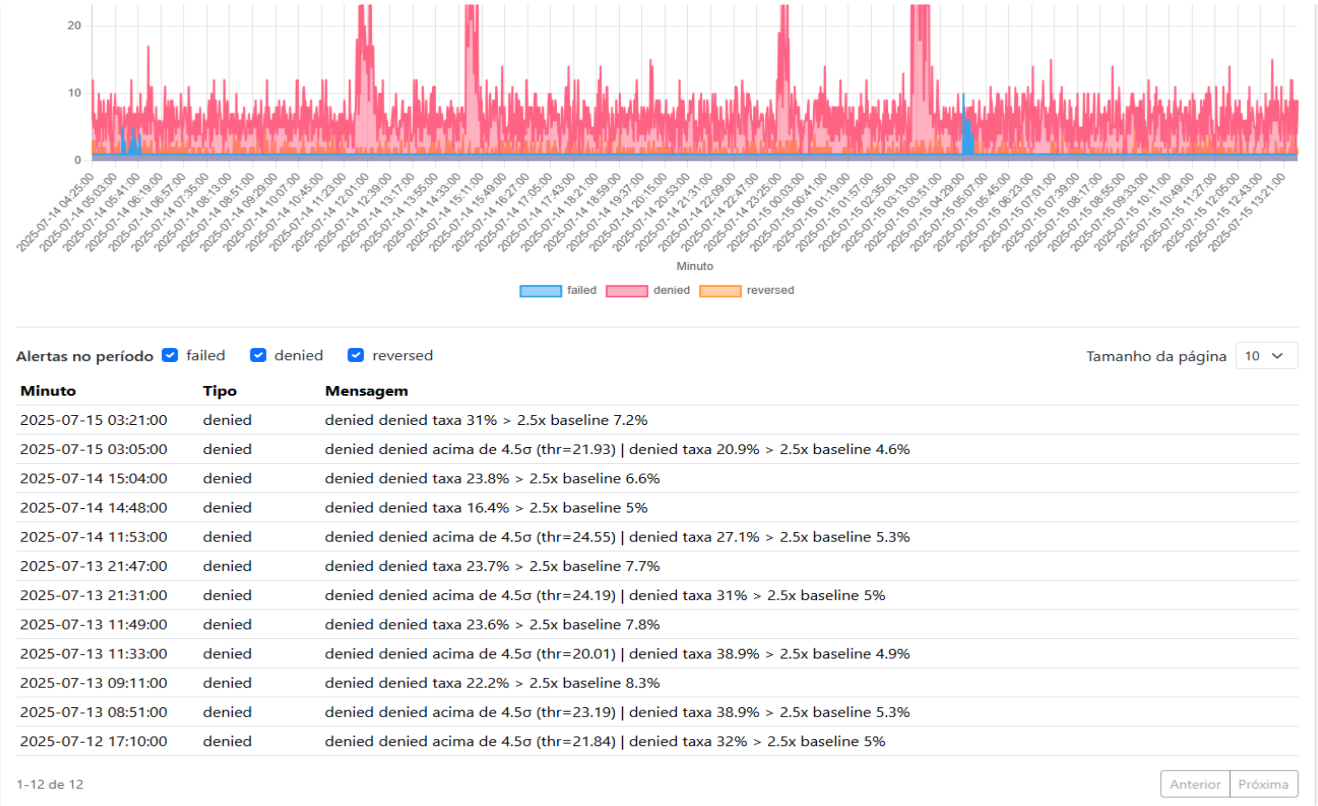
Últimos N min: 2000

De: dd/mm/aaaa --:--

Até: dd/mm/aaaa --:--

This chart displays the number of transactions per minute. It allows filtering by status, selecting custom ranges, and changing chart styles. It is powered by SQL queries against the transactions_minute_agg table, which is rebuilt after CSV imports.

2. Alerts in the Selected Period



Alertas no período ☑ failed ☑ denied ☑ reversed

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Minuto	Tipo	Mensagem
2025-07-15 03:21:00	denied	denied denied taxa 31% > 2.5x baseline 7.2%
2025-07-15 03:05:00	denied	denied denied acima de 4.5σ (thr=21.93) | denied taxa 20.9% > 2.5x baseline 4.6%
2025-07-14 15:04:00	denied	denied denied taxa 23.8% > 2.5x baseline 6.6%
2025-07-14 14:48:00	denied	denied denied taxa 16.4% > 2.5x baseline 5%
2025-07-14 11:53:00	denied	denied denied acima de 4.5σ (thr=24.55) | denied taxa 27.1% > 2.5x baseline 5.3%
2025-07-13 21:47:00	denied	denied denied taxa 23.7% > 2.5x baseline 7.7%
2025-07-13 21:31:00	denied	denied denied acima de 4.5σ (thr=24.19) | denied taxa 31% > 2.5x baseline 5%
2025-07-13 11:49:00	denied	denied denied taxa 23.6% > 2.5x baseline 7.8%
2025-07-13 11:33:00	denied	denied denied acima de 4.5σ (thr=20.01) | denied taxa 38.9% > 2.5x baseline 4.9%
2025-07-13 09:11:00	denied	denied denied taxa 22.2% > 2.5x baseline 8.3%
2025-07-13 08:51:00	denied	denied denied acima de 4.5σ (thr=23.19) | denied taxa 38.9% > 2.5x baseline 5.3%
2025-07-12 17:10:00	denied	denied denied acima de 4.5σ (thr=21.84) | denied taxa 32% > 2.5x baseline 5%

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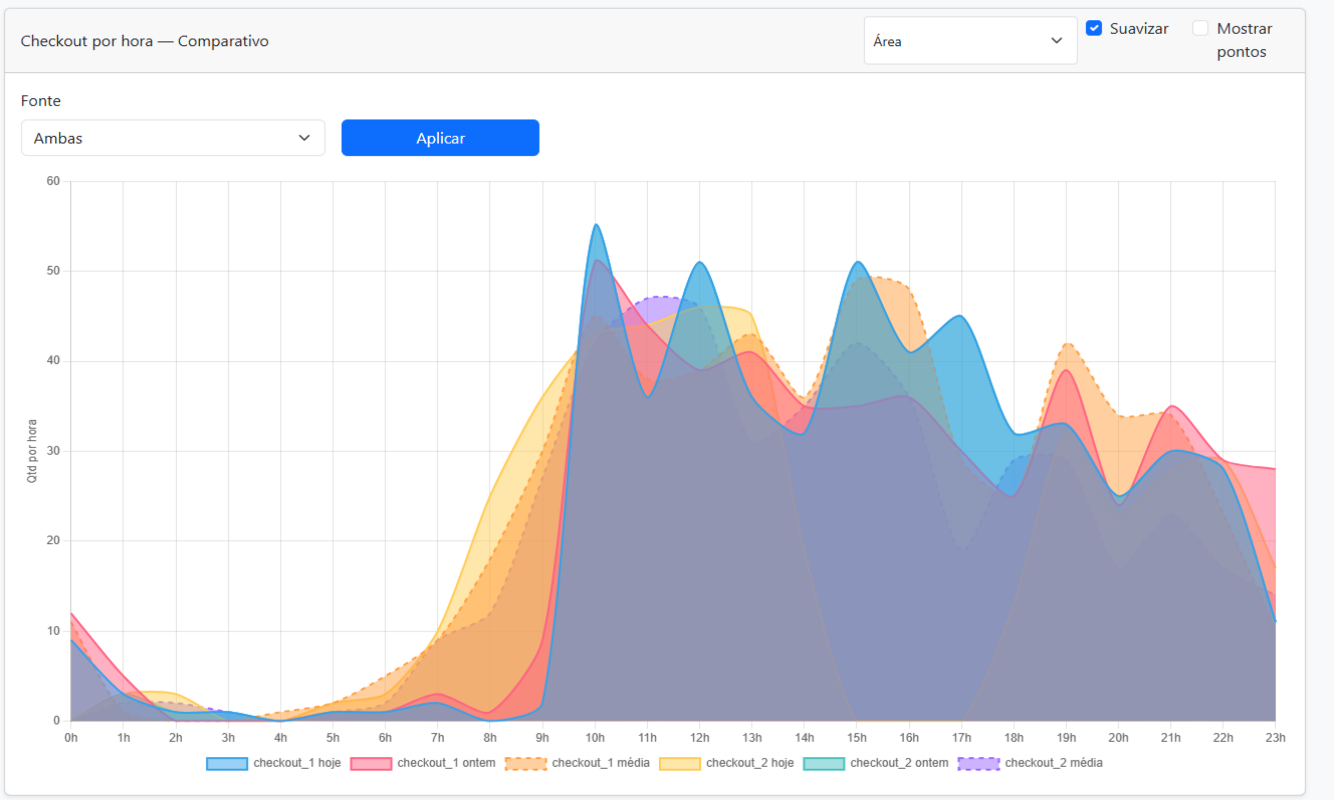
Anterior Próxima

Alerts are calculated when the observed rate of failed/denied/reversed transactions deviates from baseline thresholds. The logic is: Historical baseline is calculated using averages over a configurable time window (default 60 minutes). Thresholds (sigma multiplier, minimum counts) are defined in the PHP get_alert_config(). If the observed rate exceeds threshold multipliers, an alert is inserted into alerts_log. The frontend queries alerts through the alerts action and displays them with filters and pagination.

3. Checkout per Hour — Comparative View



Checkout por hora — Comparativo

Área

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Fonte

Ambas

Aplicar

This graph compares transaction volume per hour between checkout sources: **checkout_1** and **checkout_2** data are imported from CSVs via import_checkout(). The PHP code aggregates transactions hourly into transactions_hour_agg. The UI allows switching between today's data, yesterday's data, and averages. Users can change chart style (area, line, stacked) and toggle smoothing or point markers.

Technical Appendix - PHP & MySQL Implementation

CSV Imports:
- cloudwalk.php?action=load triggers CSV downloads from GitHub (transactions, checkouts, auth_codes).
- Each CSV is parsed and inserted into corresponding tables (transactions_raw, auth_codes, etc.).
- A backfill ensures missing auth_codes are reconstructed from transactions if needed.

Database Schema:
- transactions_raw: stores raw transaction entries.
- auth_codes: stores authorization codes with timestamp, code, and status (or NULL if unknown).
- transactions_minute_agg: pre-aggregated transactions per minute, used for charts.
- alerts_log: keeps detected anomalies.

Alert Calculation:
- Alerts are based on statistical deviation (Z-score) and multipliers defined in settings.
- For each minute, the system computes baseline averages and compares them against observed values.
- If anomalies are found, they are logged in alerts_log and visualized on the dashboard.

Frontend Integration:
- Built with Bootstrap 5, Chart.js, and AJAX endpoints (PHP actions).
- The frontend requests JSON data from ?action=series, ?action=alerts, etc.
- Data is rendered dynamically, supporting zoom, filters, and chart type switching.