Fraud threats have grown and are driving up costs

Each year companies lose tens of billions of dollars to fraud in the form of fines, settlements, and erosion of customer trust.

- 47% of companies experienced fraud in the past 24 months\(^1\)
- 2X year-over-year growth in retail fraud attempts\(^2\)
- $42B in total losses reported by respondents, according to PwC\(^3\)

Fraud risk is soaring from growth in online transactions, digital identity threats, cybercrime, and customer fraud. Today’s digital and mobile payment platforms are complex and distributed—they present more software vulnerabilities and operate with a high level of interconnectedness.

The increased complexity, volume, and sophistication of threats require more advanced fraud detection methods to keep up with malicious actors and keep your business protected.

Mitigate your fraud risk and protect your business with Redis Enterprise

- Score transactions faster with colocated AI inferencing
- Keep digital customer identity updated in real time
- Reduce cost with high-speed statistical analysis

Serve deep-learning models directly where your data lives for performance, faster and more accurate fraud analysis, and a simpler architecture.

Create, update, and access digital identity with high throughput and minimal latency, geolocation and identity searches, and multiple data models.

Check transactions against known patterns and perform anomaly detection using Bloom filters, time series, and other data structures.

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\(^1\) "PwC’s Global Economic Crime and Fraud Survey 2020"
\(^2\) "Retail Fraud Attempts Double Year-Over-Year and Triple since 2017," PR Newswire, September 24, 2019.
\(^3\) "PwC’s Global Economic Crime and Fraud Survey 2020"
Provide real-time fraud detection with Redis Enterprise

Redis Enterprise improves fraud detection and mitigation with a scalable distributed architecture providing high throughput, minimal latency, and high availability. By delivering unmatched database performance, tools for real-time statistical analysis, and support for AI/ML workloads, Redis Enterprise helps drive better outcomes.

Build a real time fraud-detection platform with Redis Enterprise

<table>
<thead>
<tr>
<th>Inputs</th>
<th>Record</th>
<th>Access</th>
<th>Filter</th>
<th>Score</th>
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</thead>
<tbody>
<tr>
<td>Transaction info</td>
<td>RedisStreams in real-time.</td>
<td>Redis Enterprise</td>
<td>RedisBloom Bloom filters are queried to see whether a particular transaction is present in a list of known fraudulent patterns.</td>
<td>RedisAI Leverage AI serving and serverless data processing to improve detection speed and accuracy.</td>
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<tr>
<td>Behavioral biometrics</td>
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<td>Customer identity</td>
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</tbody>
</table>

Real-time transaction scoring
Digital identity validation
Anomaly detection

Using Redis Enterprise in our fraud-detection service was an excellent decision for our organization. It is enabling us to easily manage billions of transactions per day, keep pace with our exponential growth rate, and speed fraud detection for all of our clients.

Ravi Sandepudi, Head of Engineering
Simility

Get started today with Redis Enterprise

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