AiCULUS

API Security and Visibility

Securing the API economy

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What's an API?

Application Programming Interfaces (API) are a software functionality that allows communication, sharing of data and digital provision of services between an organisation and its' customers and partners.

Organisations are adopting APIs to drive innovation, automation and overall efficiency. Over 50% of all B2B services and communications are currently provided by APIs.

At Aiculus we help organisations, lower costs and gain efficiencies by securing APIs and providing insights and intelligence to optimize API utlilisation.

APIs in numbers

65%

Of all internet traffic involves use of APIs.

$**1.9**B

Daily transactions processed by APIs.

4X

Global API usage to quadruple by 2020.

Sources:
https://sleeknote.com/blog/e-commerce-statistics
https://nordicapis.com/tracking-the-growth-of-the-api-economy/
https://reprints.forrester.com/#/assets/2/73/RES141540/reports

The Problem

Current security solutions not built for APIs.

API Gateways only provide Authentication and Authorisation.

No 1 cause of data breach: Auth-bypass attacks

Average minimum financial loss from an API breach*.

$2M

*Research from 477 companies in G20 countries that have experienced a data breach between 2017/18 shows that the average cost of a data breach is over **$2million-** Ponemon Institute.
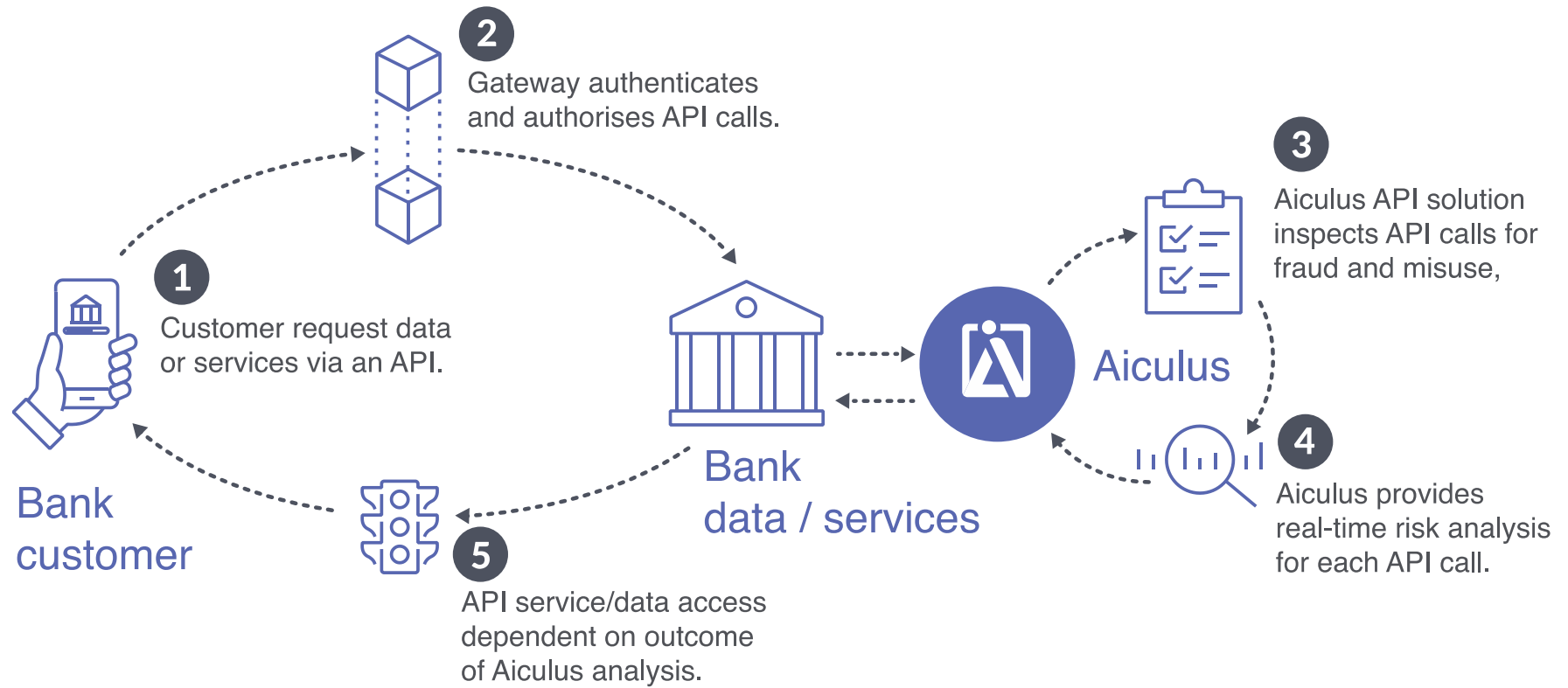
Sources:
https://securityintelligence.com/series/ponemon-institute-cost-of-a-data-breach-2018/
https://reprints.forrester.com/#/assets/2/73/RES141540/reports
https://www.verizonenterprise.com/resources/reports/rp_DBIR_2018_Report_en_xg.pdf

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Our Solution

2 Gateway authenticates and authorises API calls.

1 Customer request data or services via an API.

3 Aiculus API solution inspects API calls for fraud and misuse,

4 Aiculus provides real-time risk analysis for each API call.

5 API service/data access dependent on outcome of Aiculus analysis.

Bank customer

Bank data / services

Aiculus

Product Features

Effective
API risk
management

Privacy By Design.
Does not require
customer PII data.

Deep API
insights and
intelligence

Real-time
API
protection

Our product uses advanced Machine Learning to monitor API traffic in real time; and detect fraudulent API calls that try to access your organisation's critical data and services.

Value proposition

Our API security solution offers the following benefits to our customers:

Cost saving: Significantly reduces the capital required to manage financial loss from API fraud and misuse.

Effective Risk Management: Leverages Machine Learning to proactively detect risky APIs with over 90% accuracy.

Efficiency gains: Indepth API visibility, allowing for more effective API endpoint provisioning and insight into API usage trends.

Use Cases

Our solution can be used by both technical and executive users for the following:

Technical Users:
SOC/Technical/Risk/Security Analyst

- Stop risky API transaction in real time.
- Filter and generate trends on API security and usage.
- Investigate attempted API frauds.
- Generate detailed technical API security reports.

Executive Users:
Chief Technical/Risk/Security Officer

- Executive API Threat and Risk summary reports.
- Executive dashboards for instant trends and snapshots on API insights.
- Critical input on API infrastructure strategic planning.

How to Pilot

Demo/Technical Deep-dive

Contact us to schedule a demo and technical deep dive of our solution. **contact@aiculus.co**

Offline Analysis of API data

For an instant indication of the accuracy of our solution, we can use a small sample of your API data for offline analysis.

On prem/Cloud pilot

Run a 4 week pilot on your datacenter or from our AWS cloud service.

AICULUS

We secure the new digital future.

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