



Die Zukunft der Applikationssicherheit: Continuous Adaptive Trust

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International

Ergon Informatik AG

Core Business:

Business Software Development

Founded: 1984

Employees: 380+*

Learners: 10

Turnover 2021: CHF 63 Mio.

Headquarter: Zurich (Switzerland)



* 84% with university degree

Airlock – why we are experts

20+ Years



Experiences in
Application Security and
Access Management

More than 20 Mio.
active identities &
+30.000 protected
applications

380+

Employees at Ergon,
incl. 75 Airlock staffs

International References

in all industries

600+

Customers in 15+ countries incl.
Middle East, Asia & Australia



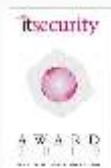
Die
Bundesregierung

Federal Republic of
Germany assigns 4-year
framework contract to
Airlock in 2021 to deliver
security solutions!

250+

Banking customers in
Europe

Award Winnings

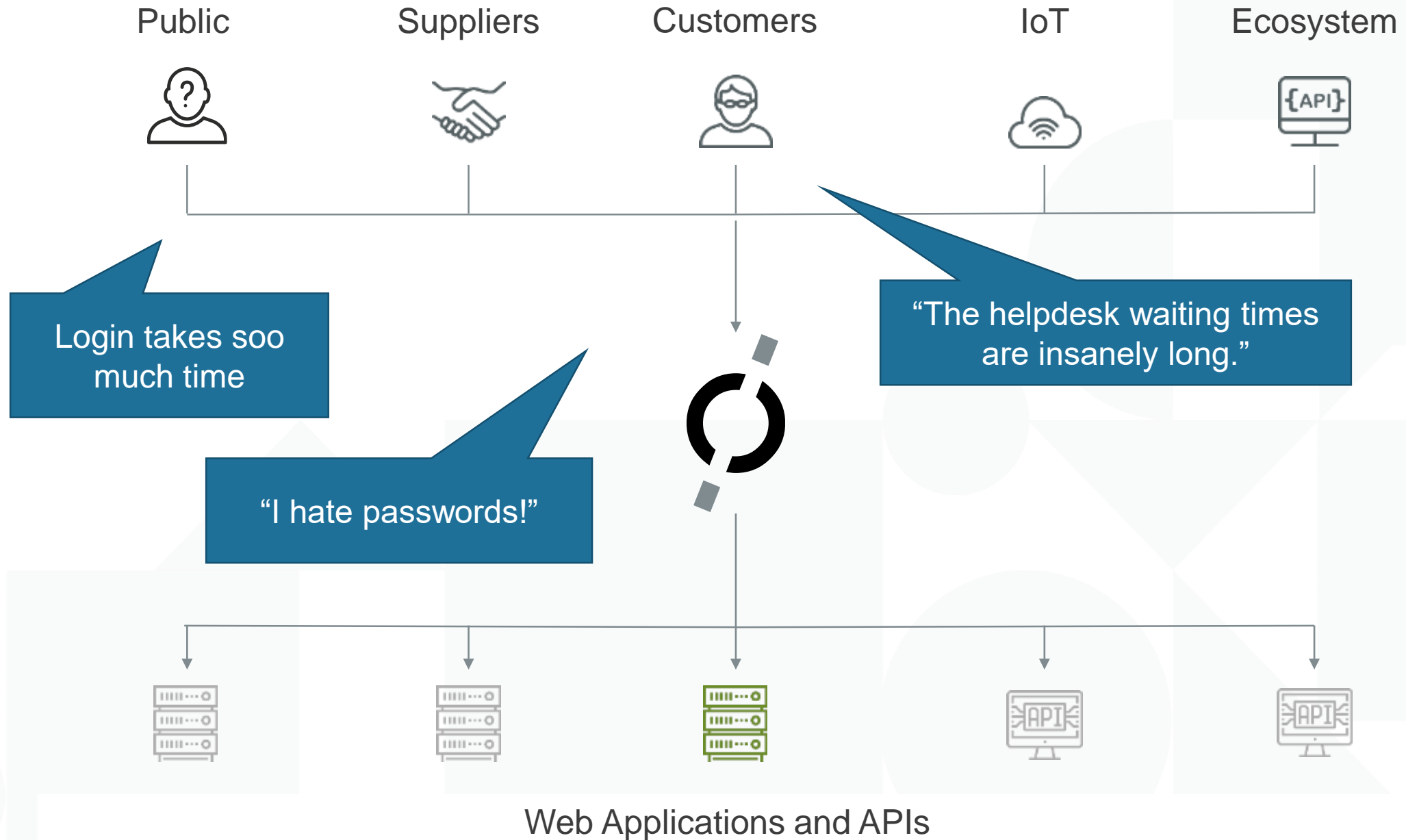


AIRLOCK®

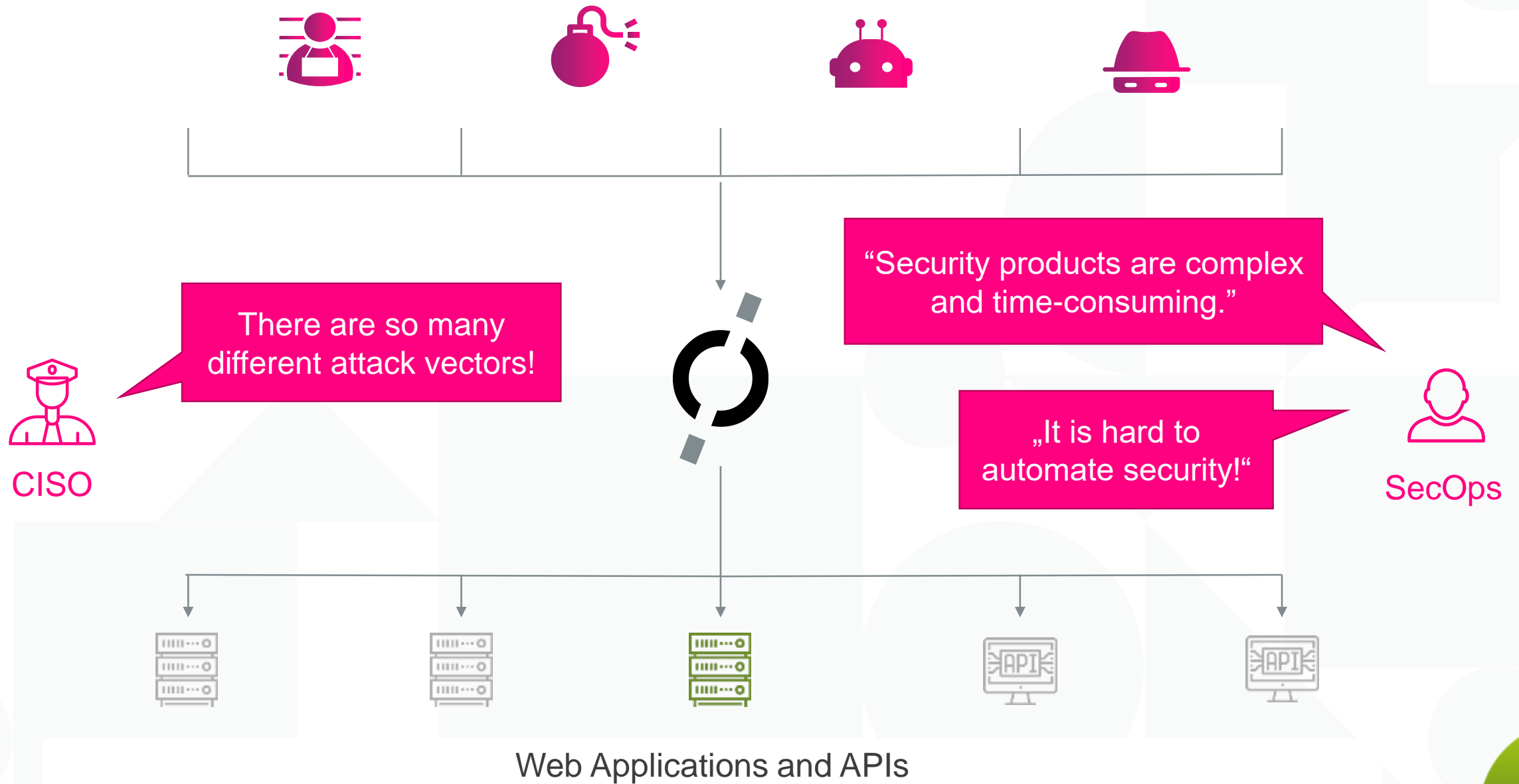
Analysts



External challenges



Internal challenges



Different kinds of attack vectors and how to protect



Known
Bad Guys



OWASP Top 10 +
0-day attacks



Bots &
Scanners



Unauthorized
Users



Threat
Intelligence



Hardened
Rules



OpenAPI
Protection



Anomaly
Shield



Authentication
Enforcement

Web Application and API Protection (WAAP)

Security Filters



Threat Intelligence



Hardened Rules



OpenAPI Protection



Anomaly Shield



Authentication Enforcement

IAM

Adaptive Authentication

Identity Management

Credential Management

Usage Plans

Traffic Mgt



Routing

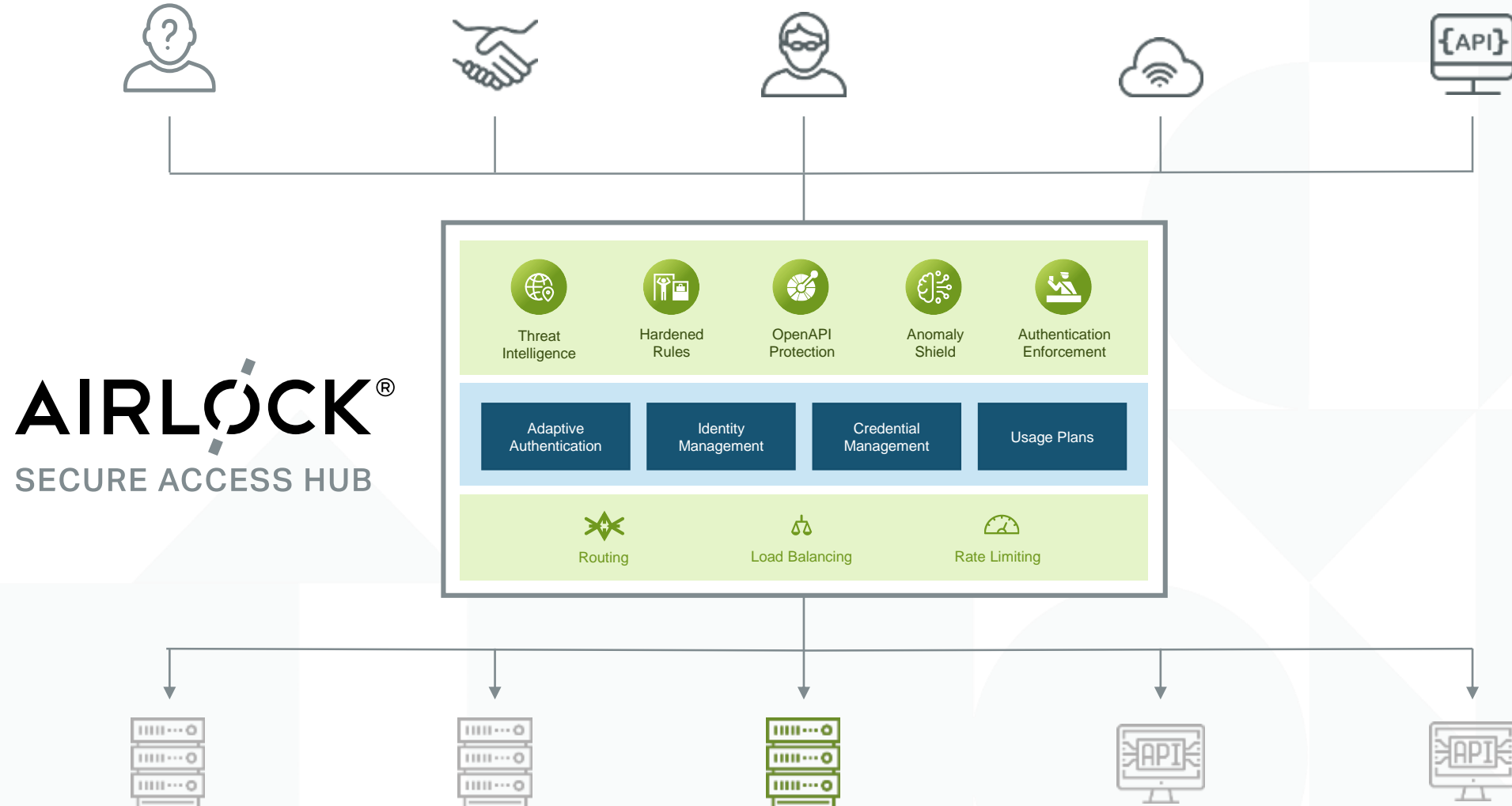


Load Balancing



Rate Limiting

A modern WAAP solution





Security vs Time to Market

Business speed is more important than ever.
Application developers are shortening their cycles.
How can security keep the pace?

Yesterday

Long
Release
Cycles

Traditional
Websites

Monoliths

Perimeter
Security



Agile, DevOps
Continuous Delivery

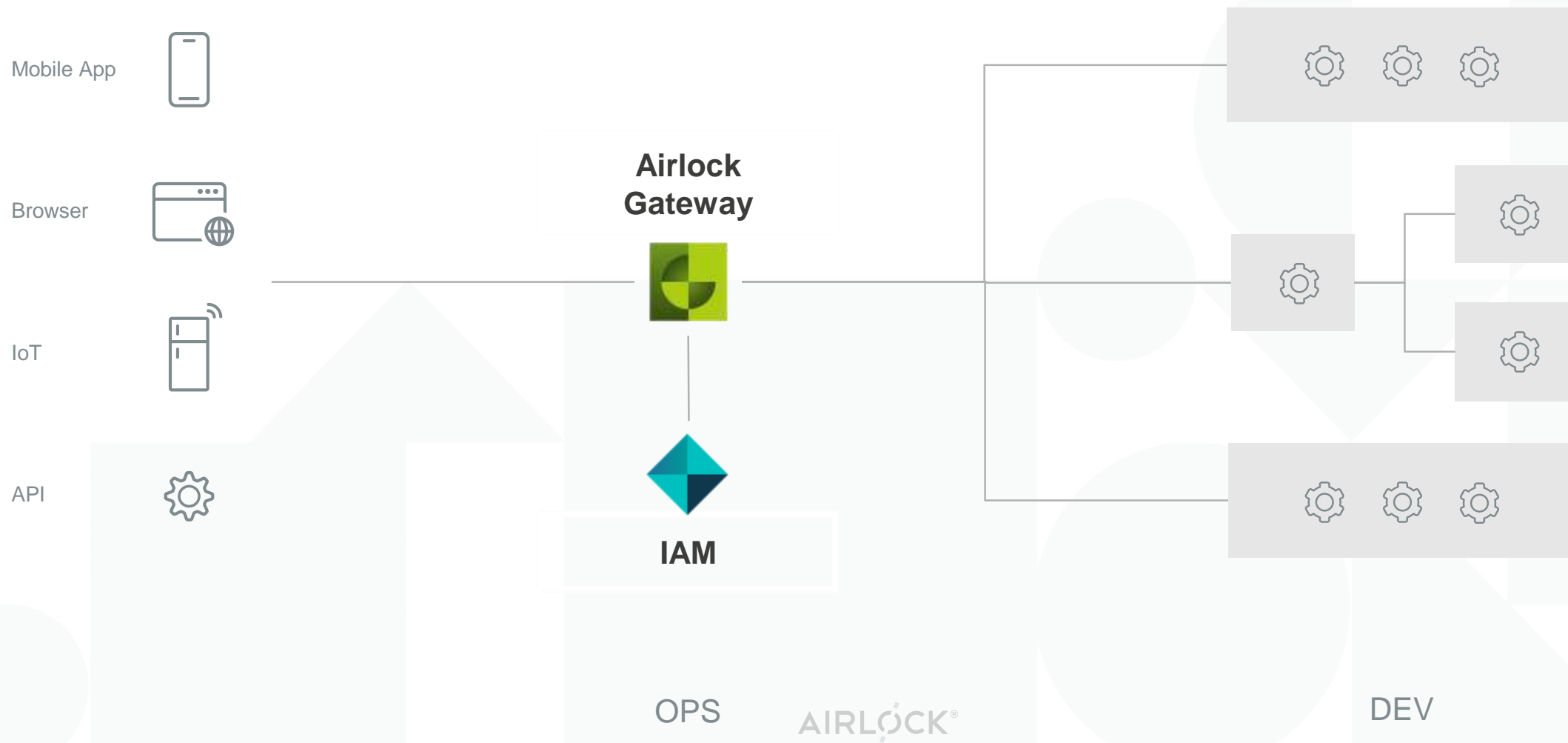
APIs
Mobile Apps
Single-Page Apps

Microservices

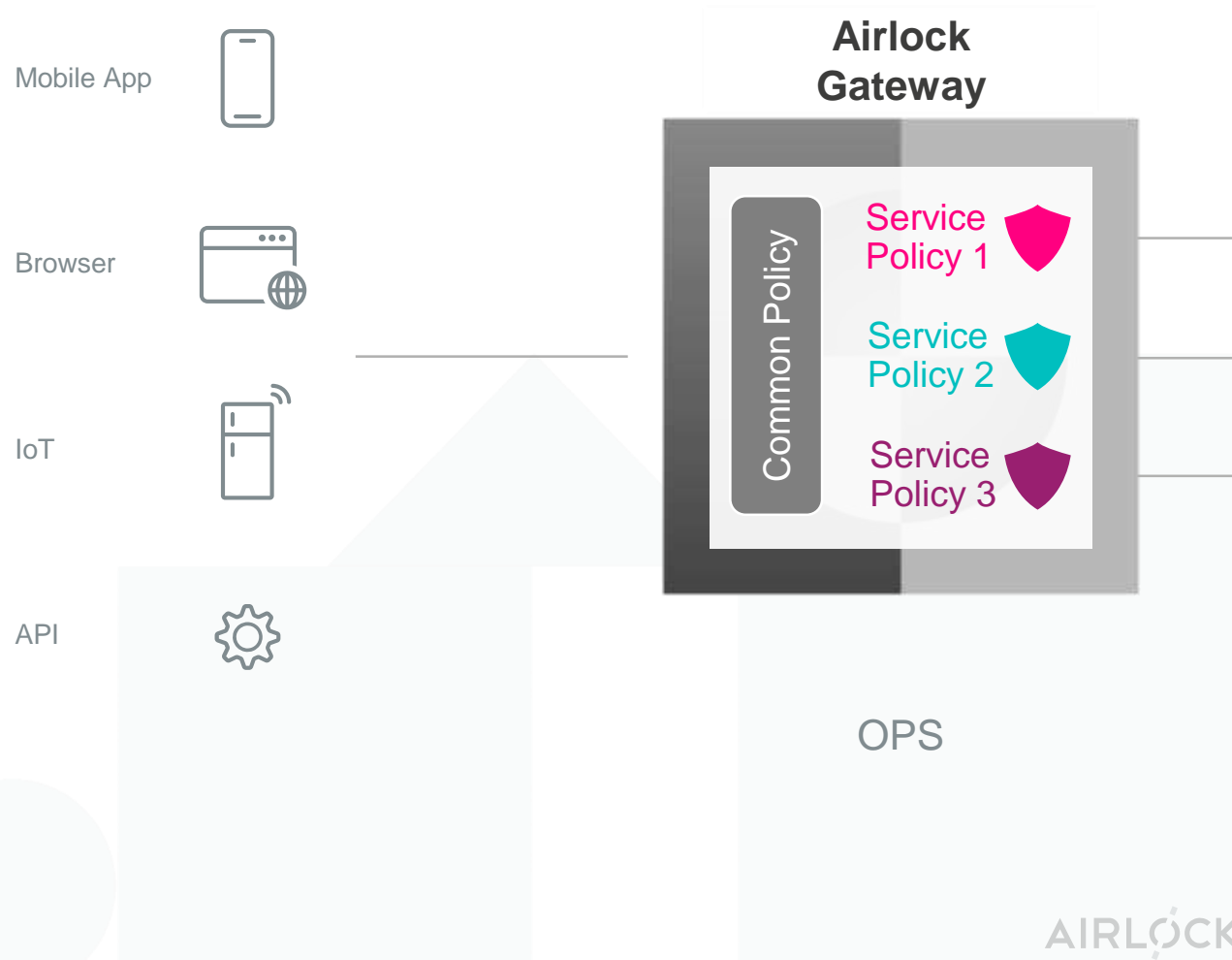
Zero Trust

Today

Traditional Architecture



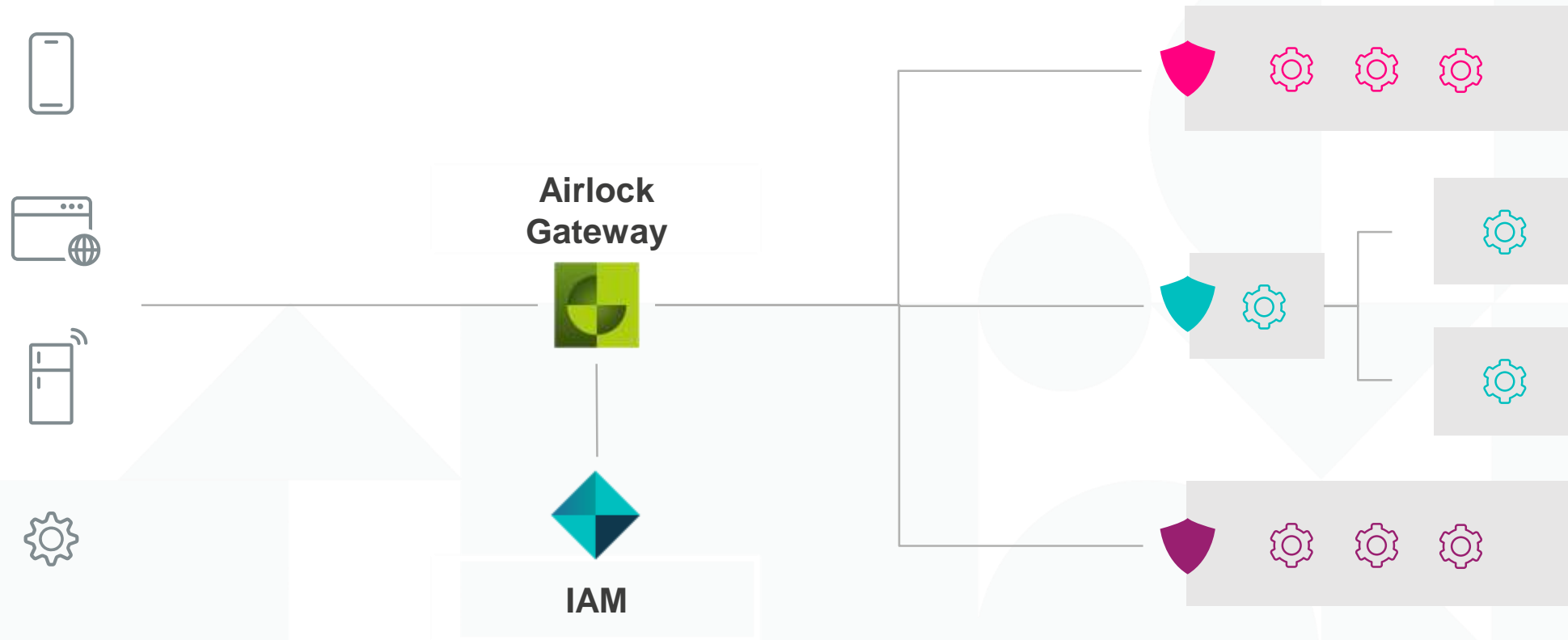
Operations owns all security policy



Problems

- Integration/Testing is done very late
- Ops do not know much about each service
- Long and costly delays
- Sec/Ops is blamed

App teams own service-specific security policies

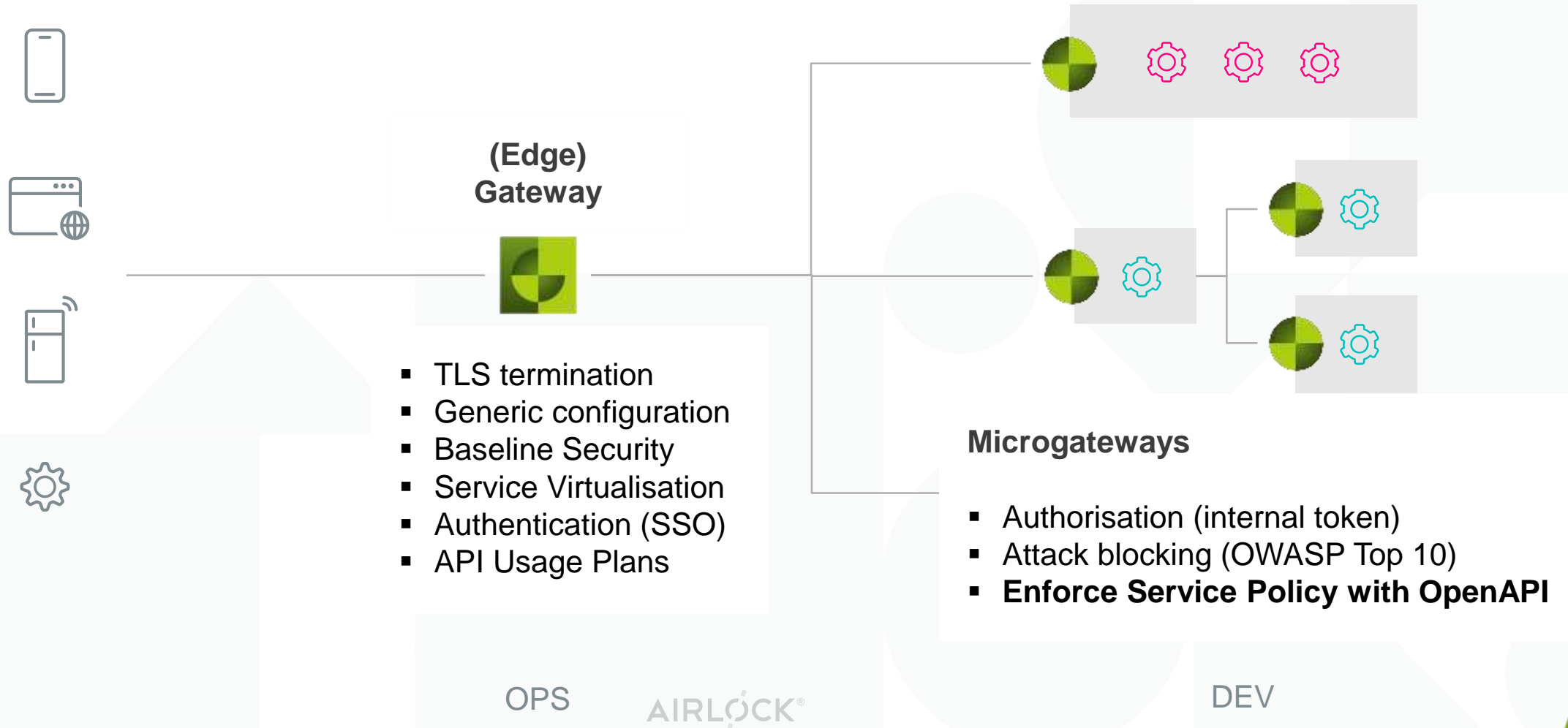


OPS

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DEV

Mini-WAF for each API or (Micro-) Service: **Microgateway**





Security vs User Experience

You can have both:
high security *and* a great UX.

Continuous Adaptive Trust - a combination of Gateway and IAM



Risk minimisation

Continuous balance
between trust level and
required security level



Optimal user experience

Lower entry barrier,
Security remains in the background

Holistic approach

Negative Security Model



- **Multi-level filtering detects known attack patterns**
- Normalization prevents filter evasion
- Policy learning to handle false positives with ease
- No app knowledge needed
- Continuous hardening e.g. with bug bounties

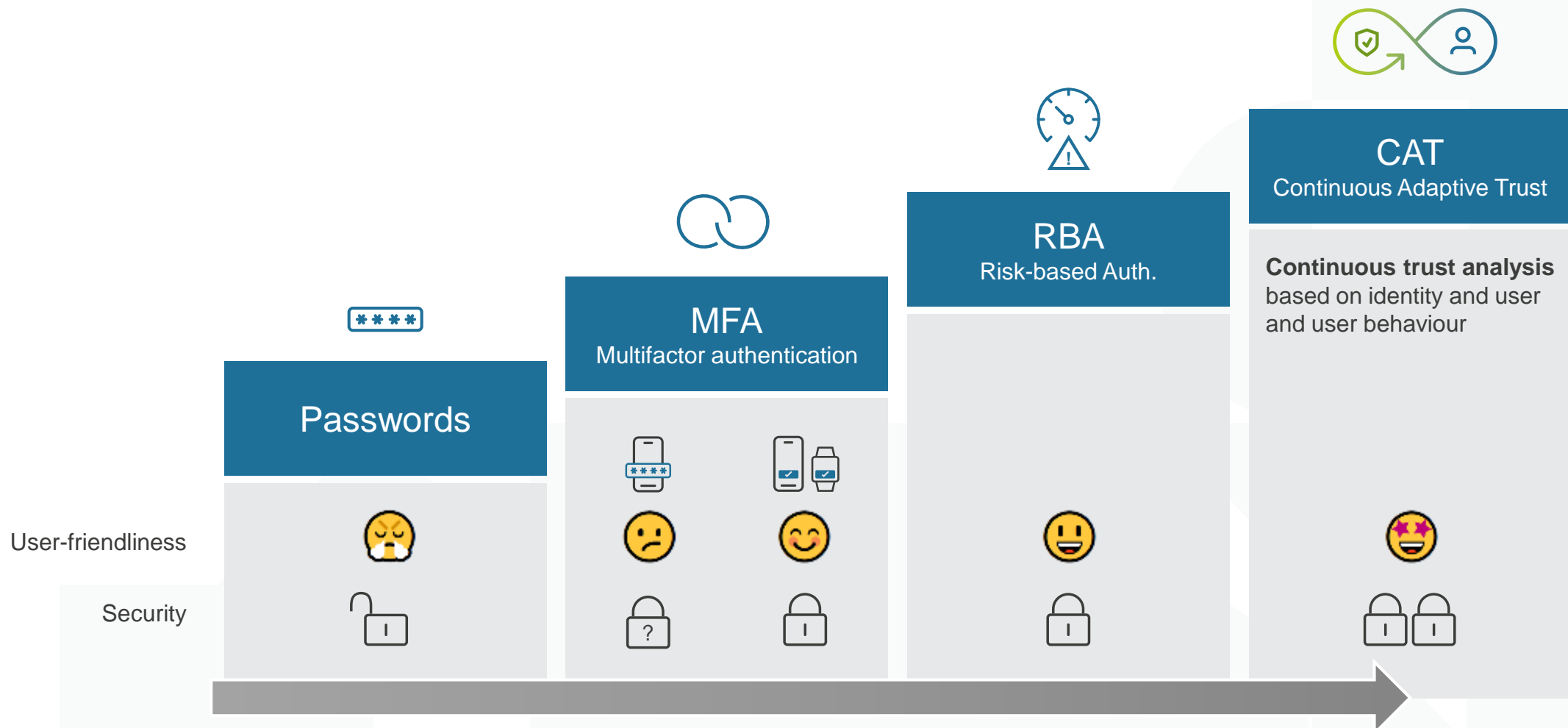


Positive Security Model

- **Blocks everything that is not allowed**
- Manual rules require deep application knowledge
- Enforce existing schema declarations (JSON, OpenAPI)
- Machine Learning + Anomaly Detection



User-friendly and secure





**Get more details about
on our booth 111,
hall 7A!**



Thank you very much!

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