

Security Solution Trends





ORGANIZATION



DATA THEFT

Unauthorized access
and data exfiltration



MALICIOUS ACTOR

External threat
with malicious intent



REVENUE IMPACT
Financial loss
and decreased income



LOSS OF TRUST
Reduced customer
confidence and trust



LEGAL DISPUTES
Lawsuits and
regulatory penalties



PUBLIC EXPOSURE
Incident becomes
publicly known



REPUTATIONAL DAMAGE
Long-term damage
to brand reputation

EDGE PROTECTS WHAT MATTERS

Secure Every Connection. Protect Every Experience.



Edge is the first line of defense on the Internet

✓ Protect

✓ Accelerate

✓ Ensure Availability

✓ Deliver Trusted Experiences

CYBER SECURITY PROTECTION LAYERS

Defense in Depth Across the Entire Digital Journey



Every Layer Works Together. Every Layer Protects What Matters.



Prevent



Detect



Respond



Recover

EDGE PROTECTS WHAT MATTERS

Secure Every Connection. Protect Every Experience.



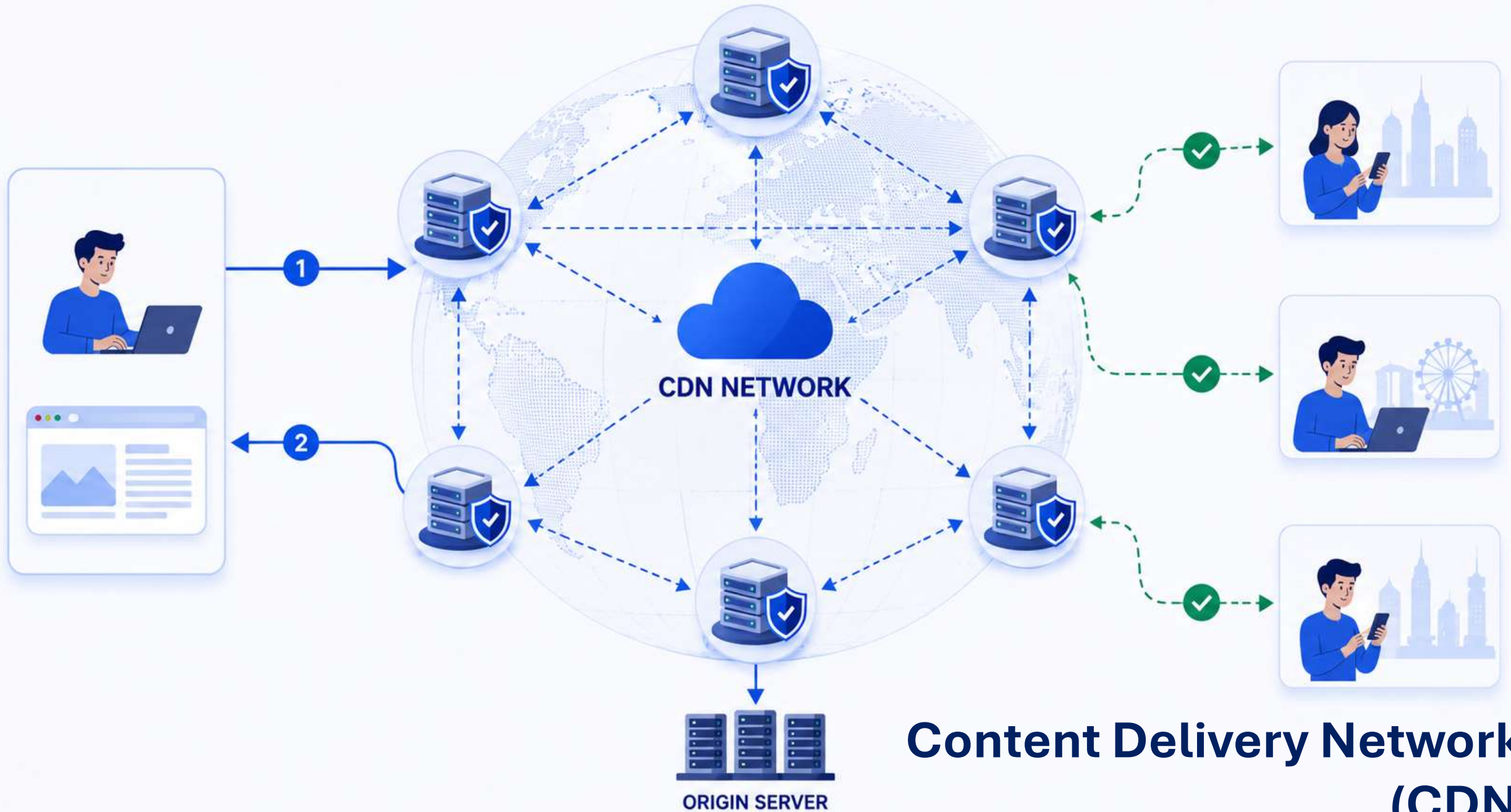
Edge is the first line of defense on the Internet

✓ Protect

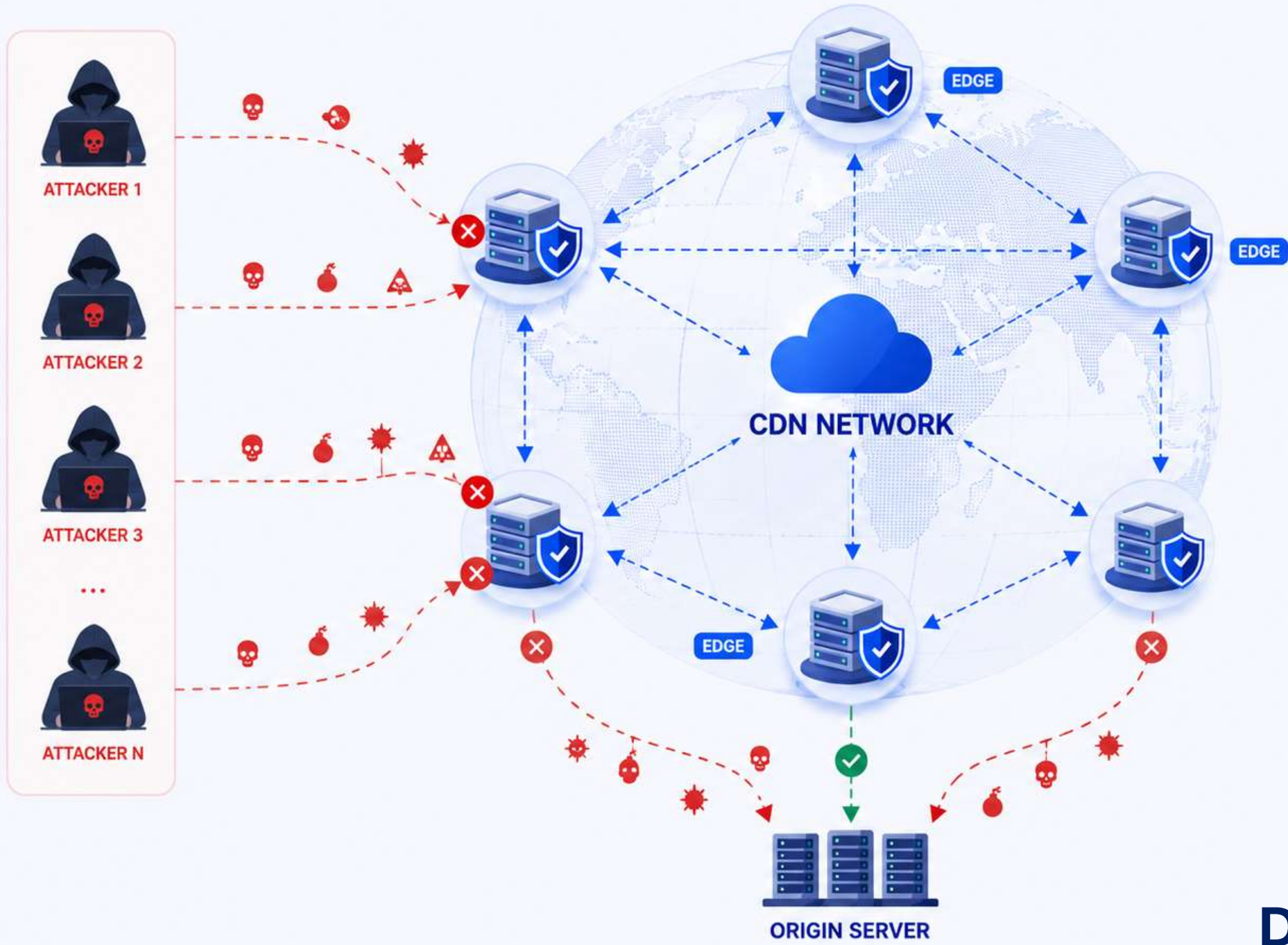
✓ Accelerate

✓ Ensure Availability

✓ Deliver Trusted Experiences



Content Delivery Network (CDN)

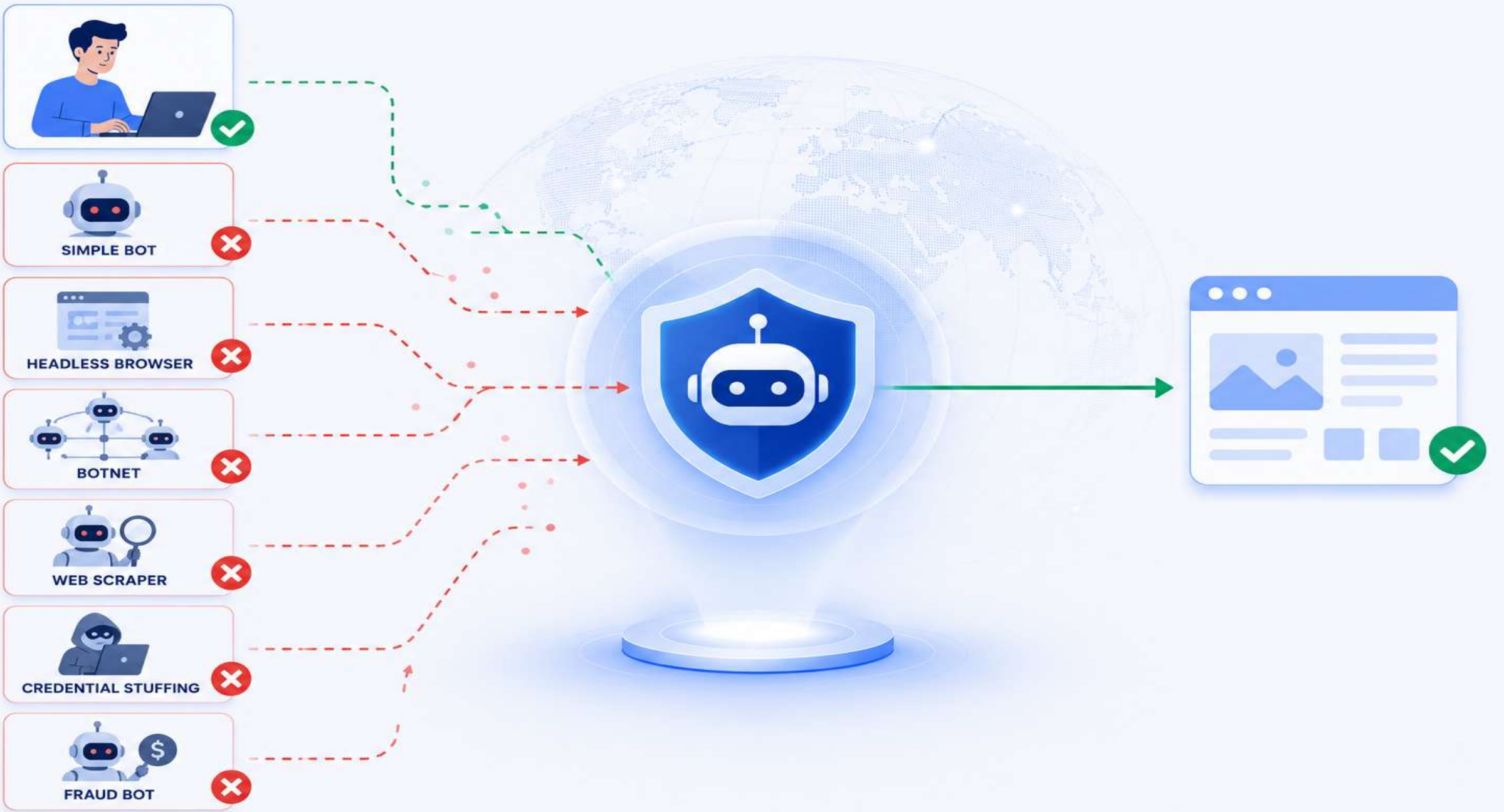


 **EDGE ABSORBS ATTACKS**
Malicious traffic is absorbed by Edge nodes.

 **TRAFFIC FILTERING**
Only clean traffic is allowed through.

 **ORIGIN PROTECTED**
Origin server stays safe and available.

DDOS Protection



BOT DETECTION



THREAT INTELLIGENCE & CVE FEED

Continuous update of threats, vulnerabilities and attack patterns

Auto Update Rules & Signatures

CVE CVE NEW RELEASE

CRITICAL	CVE-2024-3094	Apache Struts RCE Vulnerability	Published: May 21, 2024
HIGH	CVE-2024-24786	PHP CGI Argument Injection	Published: May 15, 2024
MEDIUM	CVE-2024-2361	Next.js Authorization Bypass	Published: May 10, 2024
...			

API Security

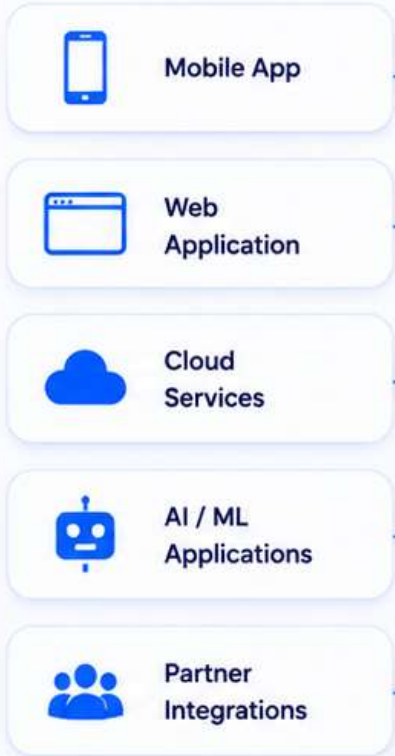


API

(Application Programming Interface)

A set of rules and protocols that allow systems to communicate with each other.

CLIENTS / APPLICATIONS



REQUEST

Ask for data or perform a function



RESPONSE

Return data or results

SYSTEMS / DATA



STANDARDIZED • SECURE • RELIABLE



ENABLES INTEGRATION

Allows different systems and applications to work together seamlessly.



IMPROVES EFFICIENCY

Reduces development time by reusing existing functionalities.



DRIVES INNOVATION

Enables new products, services, and experiences faster.



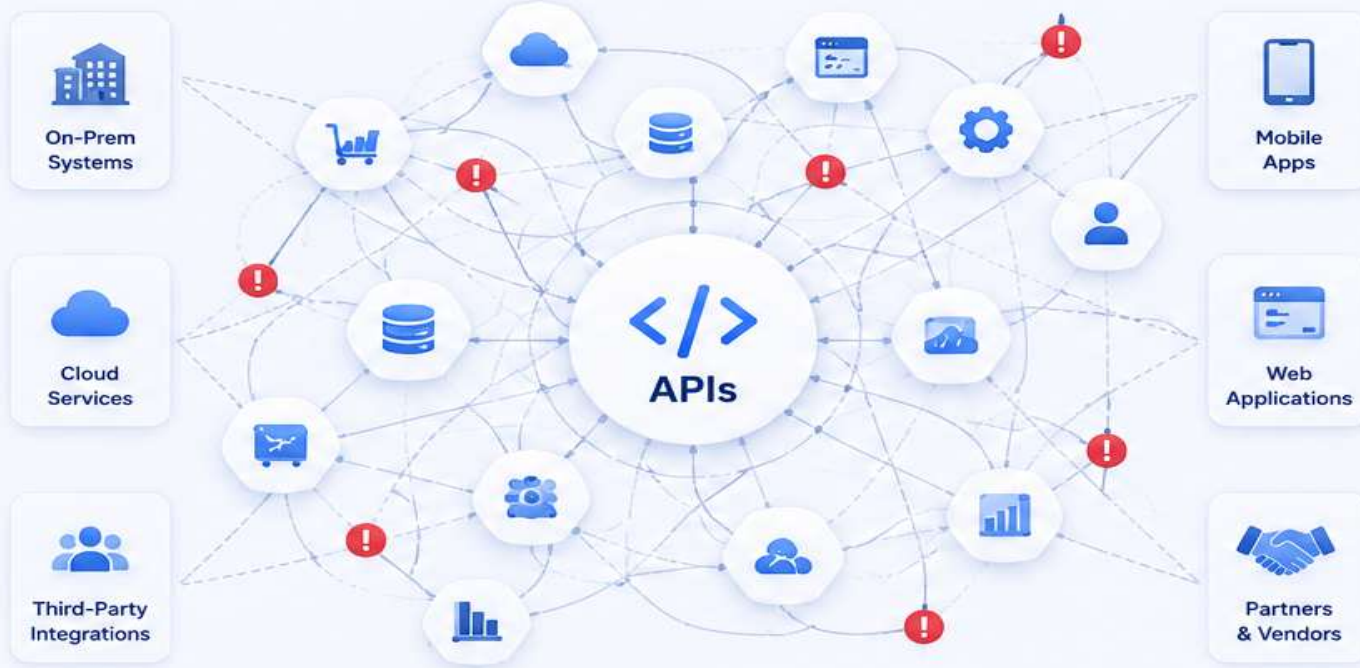
ENSURES CONTROL

Provides a secure and governed way to access data and services.

PROBLEM: API SPRAWL

API growth expands attack surface and makes security harder to control.

API SPRAWL IN MODERN ORGANIZATIONS



THE IMPACT



OF ORGANIZATIONS EXPERIENCED API SECURITY INCIDENTS

2026 REPORT



3.5 TIMES / YEAR



Average number of API security incidents per organization

2026 REPORT



700K+ USD

Average financial loss per organization

2026 REPORT



FINANCIAL LOSS



REPUTATION DAMAGE



OPERATIONAL DISRUPTION



CUSTOMER TRUST LOSS

ตัวอย่างเหตุการณ์ การลักลอบใช้งาน API

เพราะ API เปิดให้เข้าถึงได้จากอินเทอร์เน็ต โดยไม่มีการยืนยันตัวตนและกำหนดสิทธิ์



ผลกระทบที่เกิดขึ้น



ข้อมูลรั่วไหล



เสียหายต่อชื่อเสียงและความน่าเชื่อถือ



สูญเสียรายได้และโอกาสทางธุรกิจ



อาจถูกดำเนินคดีและฟ้องร้อง

ORGANIZATIONS DON'T KNOW ALL THEIR APIS

The Hidden API Problem

API CREATION HAPPENS EVERYWHERE

 **Development Teams**
Building and deploying APIs rapidly

 **Cloud & Microservices**
APIs across multi-cloud and containers

 **Partners & Vendors**
Third-party integrations and external APIs

 **SaaS & Business Tools**
APIs from SaaS and business applications

 **KNOWN APIS**
Managed and Secured

20-30%
Visible

 **UNKNOWN APIS**
Invisible and Unprotected

70-80%
Hidden Risk



Shadow APIs



Zombie APIs



Deprecated APIs




Orphaned APIs

THE IMPACT

 **No Visibility**
Cannot see what you don't know

 **Higher Risk**
Unknown APIs become easy attack targets

 **Data Exposure**
Sensitive data may be exposed through APIs

 **Attack Surface Grows**
More APIs = More ways for attackers to get in

 **Compliance & Audit Risk**
Lack of control leads to compliance failures

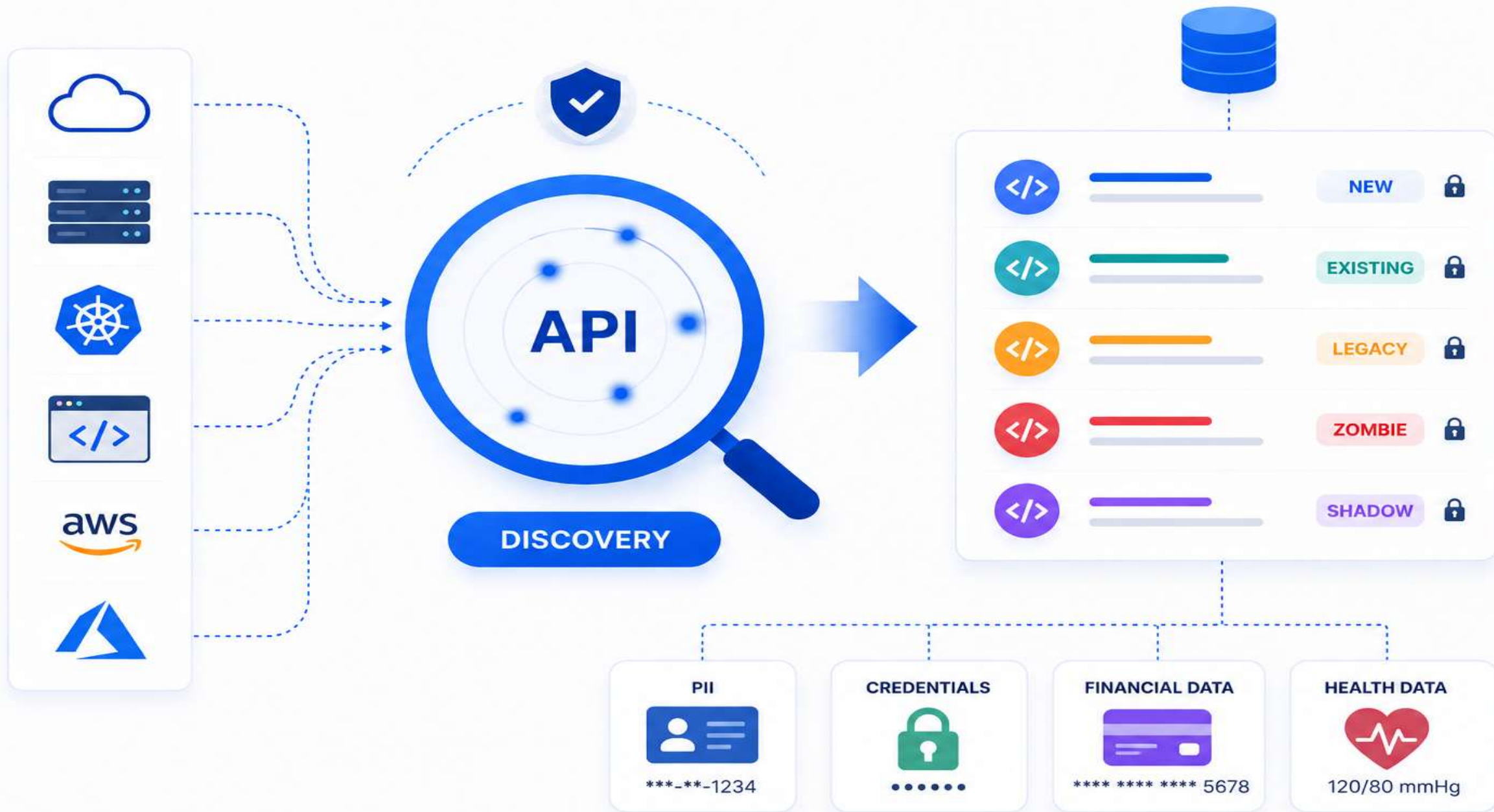
They Exist. They're Accessible. They're Unprotected.



You Can't Protect What You Can't See

Discover. Inventory. Classify. Protect Every API.







API SECURITY ASSESSMENT

ตรวจหาช่องโหว่และความเสี่ยงของ API

DISCOVERED APIs

- GET /users
- POST /login
- GET /orders
- PUT /payments
- GET /admin/report

AUTHENTICATION TESTING

ตรวจสอบการยืนยันตัวตน และการจัดการโทเค็น

INPUT VALIDATION TESTING

ตรวจสอบการตรวจสอบข้อมูลนำเข้าของ API

BUSINESS LOGIC TESTING

ตรวจสอบตรรกะทางธุรกิจ และการควบคุมการใช้งาน



AUTHORIZATION TESTING

ตรวจสอบการกำหนดสิทธิ์ และการเข้าถึงข้อมูล

DATA EXPOSURE TESTING

ตรวจสอบการเปิดเผยข้อมูลที่อ่อนไหวโดยไม่จำเป็น

CONFIGURATION TESTING

ตรวจสอบการตั้งค่า และส่วนประกอบที่ไม่ปลอดภัย

RISK & VULNERABILITY FINDINGS

- Broken Authentication** (CRITICAL) - ไม่พบการยืนยันตัวตน (Authentication)
- Broken Authorization** (HIGH) - ไม่มีการกำหนดสิทธิ์ (Authorization)
- Sensitive Data Exposure** (HIGH) - พบการเปิดเผยข้อมูลอ่อนไหว
- Injection** (MEDIUM) - พบช่องโหว่จากการป้อนข้อมูล
- Excessive Data Exposure** (MEDIUM) - มีข้อมูลที่ส่งกลับมากเกินไปจนความจำเป็น
- Security Misconfiguration** (LOW) - การตั้งค่าที่ไม่ปลอดภัย

RISK SUMMARY

24 Total Issues

3 CRITICAL	7 HIGH	9 MEDIUM	5 LOW
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RECOMMENDED ACTIONS

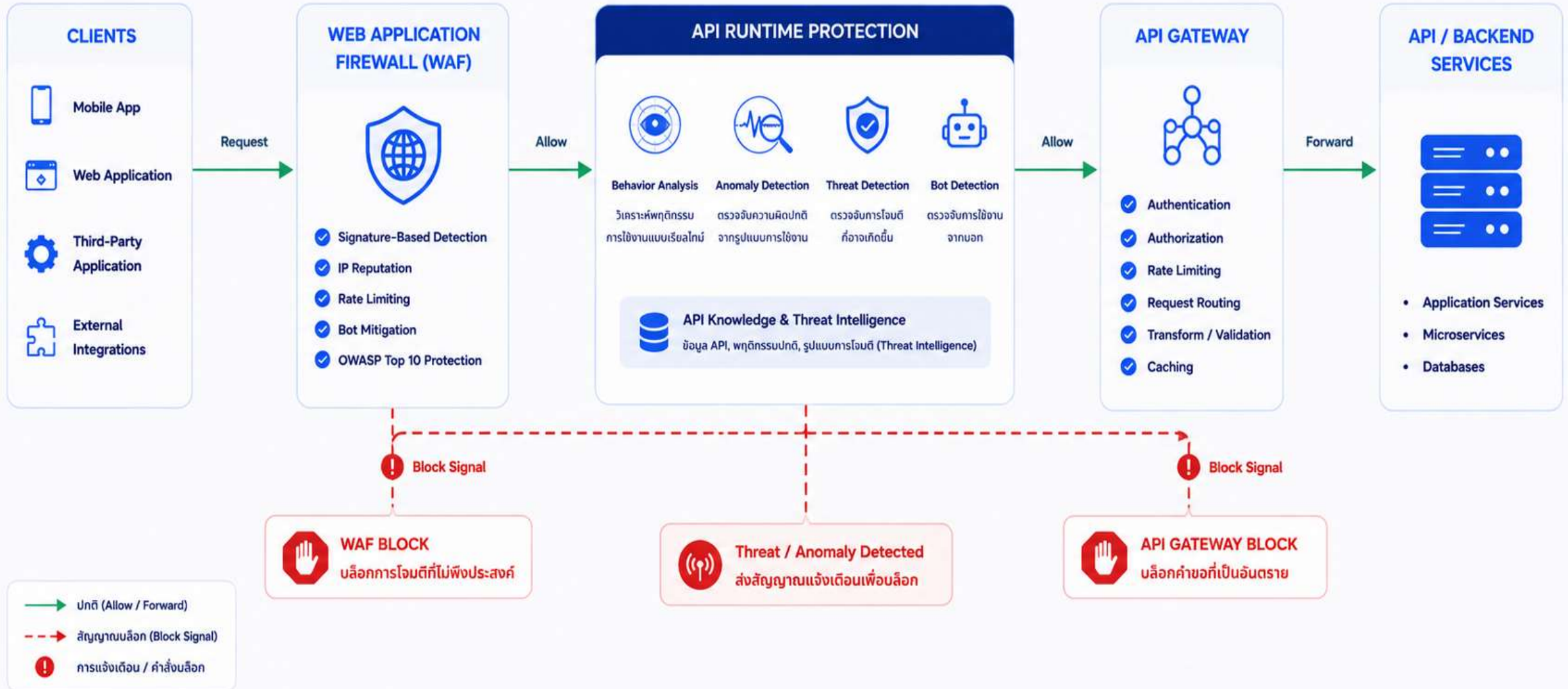
- ✓ เพิ่มการยืนยันตัวตน (Authentication) สำหรับทุก API
- ✓ กำหนดสิทธิ์การเข้าถึง (Authorization) ตามบทบาท
- ✓ จำกัดข้อมูลที่ส่งกลับ และปิดข้อมูลอ่อนไหว
- ✓ ปรับปรุงการตรวจสอบข้อมูลนำเข้า (Input Validation)

SECURE APIs




จัดการความเสี่ยงและป้องกันการถูกโจมตีได้อย่างมีประสิทธิภาพ

API RUNTIME PROTECTION

ตรวจจับและป้องกันการโจมตี หรือการใช้งานที่ผิดปกติแบบเรียลไทม์





-  **SECURE APIS** 
-  **LOWER RISKS & COSTS** 
-  **FASTER DELIVERY** 

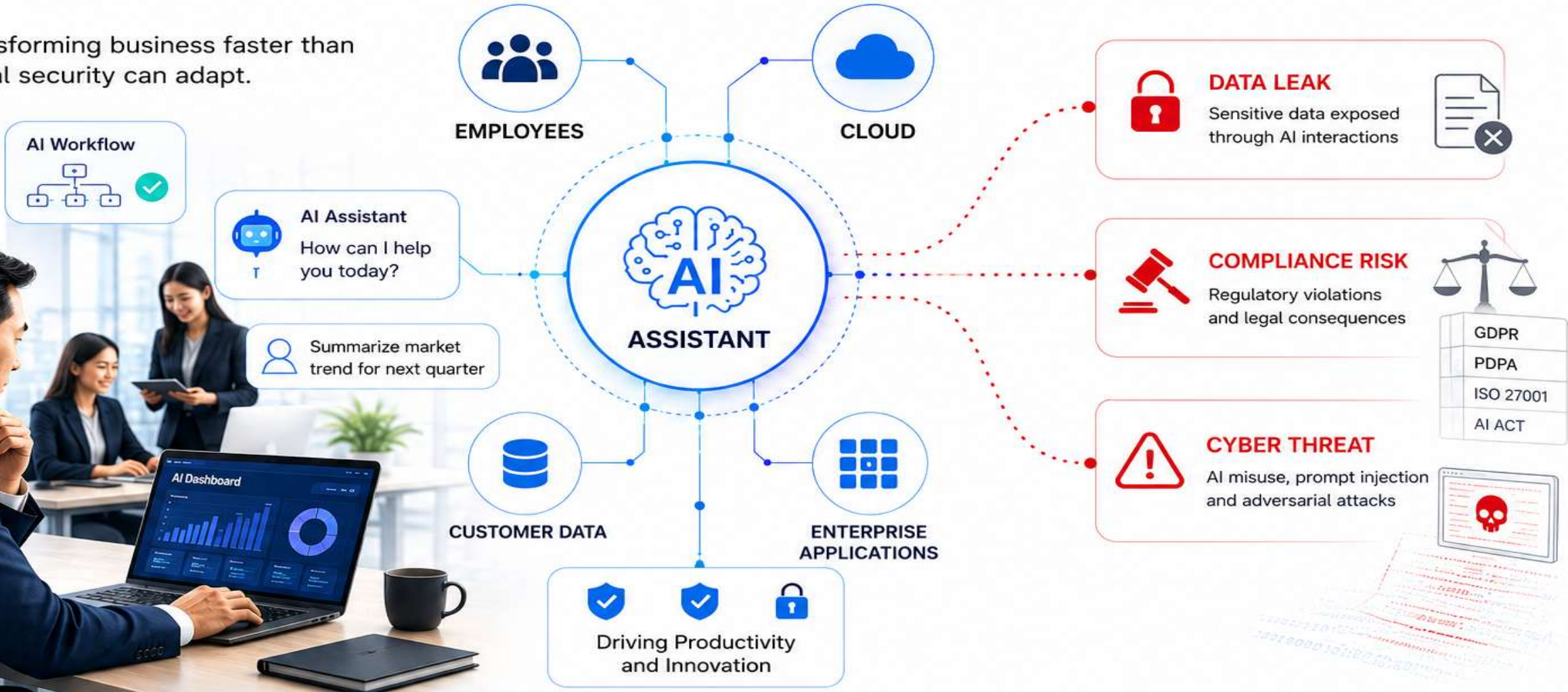


Firewall for AI



AI Adoption is Accelerating Faster Than Security

AI is transforming business faster than traditional security can adapt.



AI is a New Attack Surface.

Organizations must secure AI interactions to protect data, ensure compliance, and maintain trust.

Key Risks Organizations Face with AI

AI risk is now a **business risk**.

1 DATA LEAKAGE

Sensitive data may be exposed through AI interactions.



Risk of exposing confidential business data, customer information, and IP.

2 PROMPT INJECTION

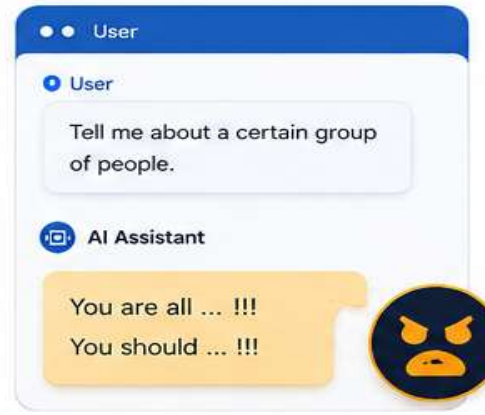
Attackers manipulate AI behavior through malicious prompts.



Leads to data disclosure, policy bypass, and unauthorized actions.

3 TOXIC RESPONSES

AI may generate harmful, biased, or inappropriate content.



Harms brand reputation, customer experience, and employee safety.

4 COMPLIANCE RISK

AI usage may violate privacy laws and industry regulations.



Results in legal penalties, regulatory fines, and loss of business licenses.

AI risk is now a **business risk**.



BRAND REPUTATION

Negative incidents can damage public perception and trust.



CUSTOMER TRUST

Customers expect their data to be safe and private.



REGULATORY COMPLIANCE

Non-compliance can lead to fines and legal consequences.

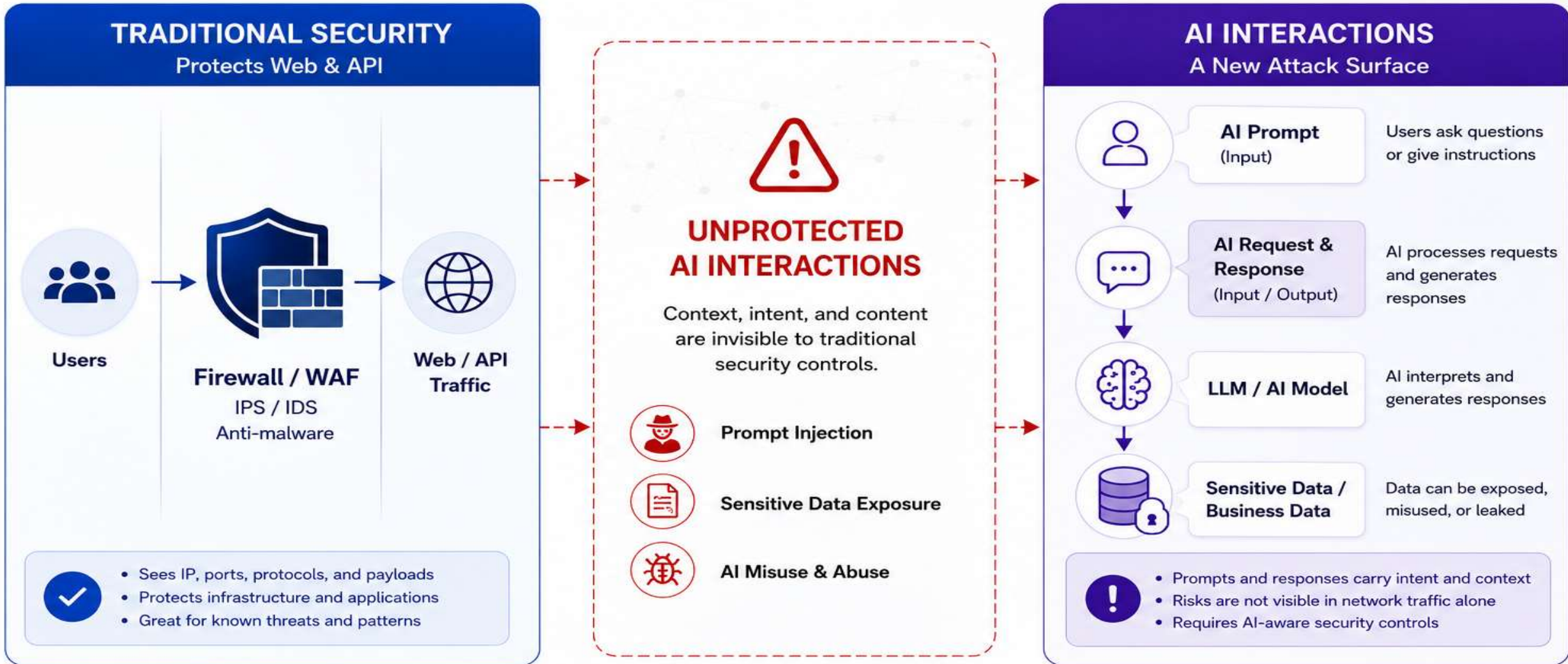


INTELLECTUAL PROPERTY

Sensitive IP can be exposed, copied, or misused.

Traditional Security Was Not Designed for AI

AI introduces risks that existing security controls cannot fully see.



AI requires a **new layer of security** purpose-built to understand and protect AI interactions.

Firewall for AI

Purpose-built protection for enterprise AI.



Protect every AI interaction. Inbound prompts and outbound responses.

USERS & APPLICATIONS



Employees



Customers



Applications

INPUT

Prompts
Queries



OUTPUT

Responses
Results

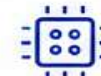
LLM / AI MODEL



Large Language
Models (LLMs)



AI Applications



AI Services

DEPLOY ANYWHERE



Cloud AI



Hybrid AI



On-prem AI



Multi-cloud

BUILT-IN PROTECTION AGAINST AI-SPECIFIC RISKS



PROMPT INJECTION

Blocks malicious or
manipulative prompts



DATA LEAKAGE

Prevents exposure of
sensitive or confidential data



HARMFUL CONTENT

Filters toxic, biased,
or inappropriate content



AI ABUSE

Detects and mitigates
misuse and adversarial attacks

BUSINESS OUTCOMES



Reduce AI Risk

Protect data, brand,
and customers



Ensure Compliance

Meet regulatory and
governance requirements



Enable Innovation

Adopt AI with confidence
and agility



Maintain Trust

Build customer trust with
safe and responsible AI



Enterprise-Ready

Scalable, reliable, and built
for any environment



A unified layer of security between your users and AI. **Secure AI. Empower Business.**

Executive Takeaway

AI is transforming business.

Security and governance determine who wins in the AI era.



AI is a strategic advantage.

Drive innovation, productivity, and growth across the enterprise.



AI security is now essential.

Protect data, prevent misuse, and build resilience against emerging threats.



Governance must evolve with AI.

Establish policies, ensure compliance, and maintain responsible AI use.



Organizations that secure AI early will scale AI faster and safer.



AI as a Core Platform

AI will power core business processes and customer experiences.



Security & Governance Create Advantage

Organizations that act early will lead with trust and responsibility.



Firewall for AI

Purpose-built protection for AI interactions—inputs and outputs.



Enterprise-Ready

Works across cloud, on-prem, hybrid, and multi-cloud environments.



Foundation for Enterprise AI Security

Akamai Firewall for AI helps you innovate with confidence and control.