

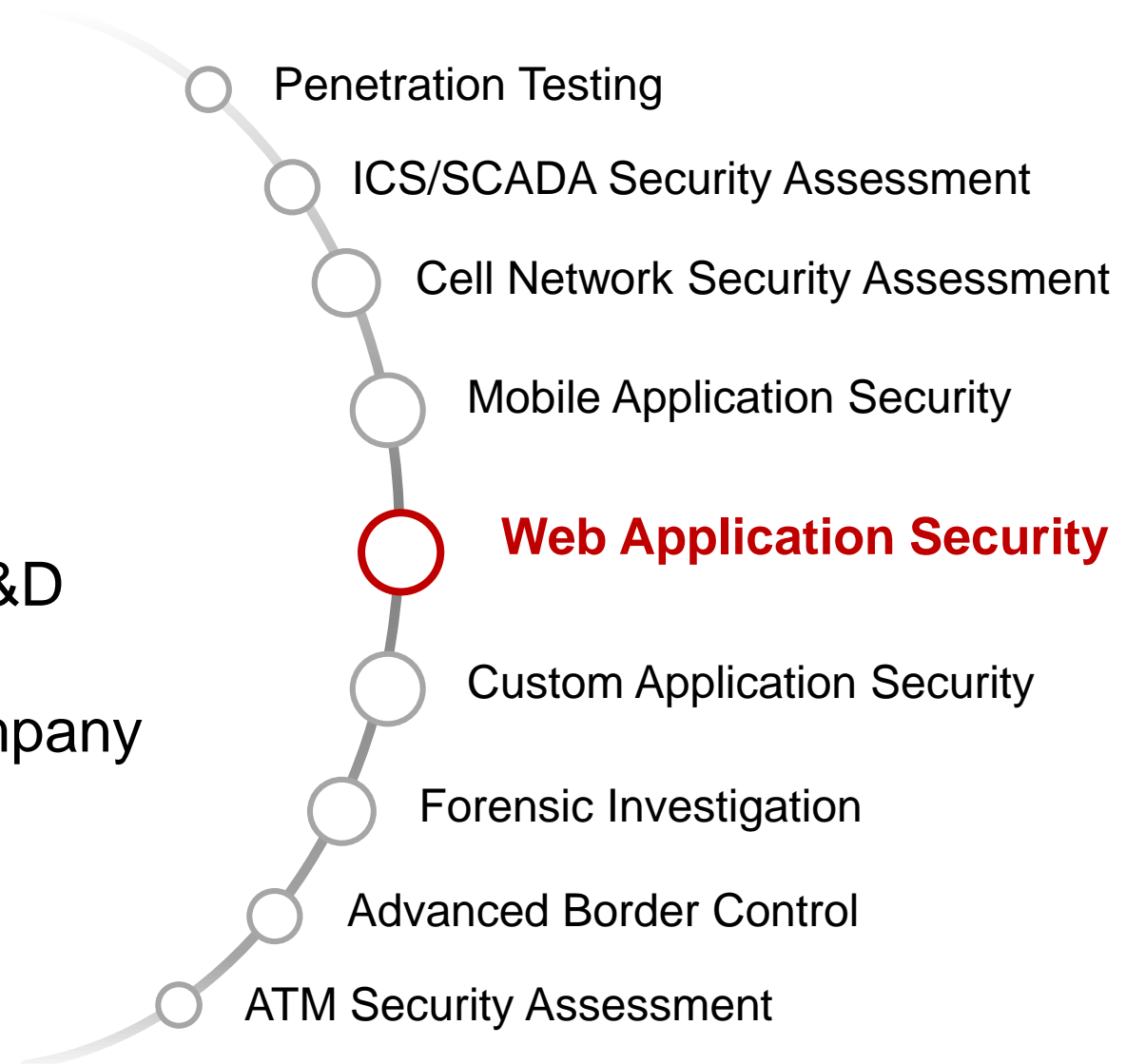
A blurred background image of a modern office interior. Several people are visible working at desks with computers. The office has a high ceiling with exposed wooden beams and modern lighting fixtures. The overall tone is professional and tech-oriented.

POSITIVE TECHNOLOGIES

PT Unified Application Security Enforcement

ptsecurity.com

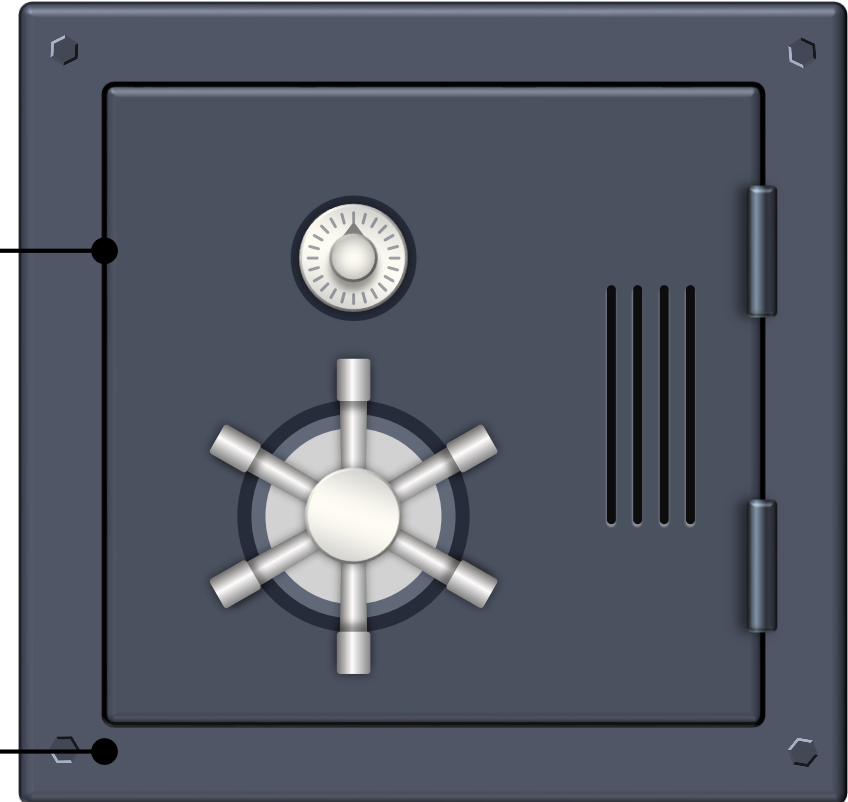
- **Over 700** employees globally
- **Over 1,000** enterprise customers
- **Over 15 years** of investment in R&D
- **Europe's largest** IS research company



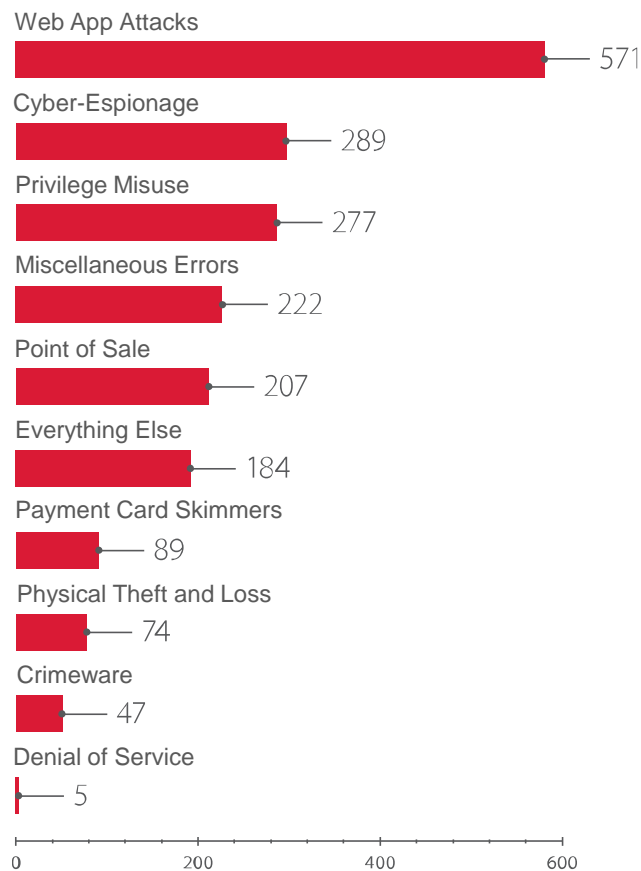
They are a gateway to the enterprise
and all the information you want to protect

“Attackers have shifted their focus from servers
and operating systems directly to applications.
They see this as the easiest route to accessing
sensitive enterprise data and are doing
everything they can to exploit it.”

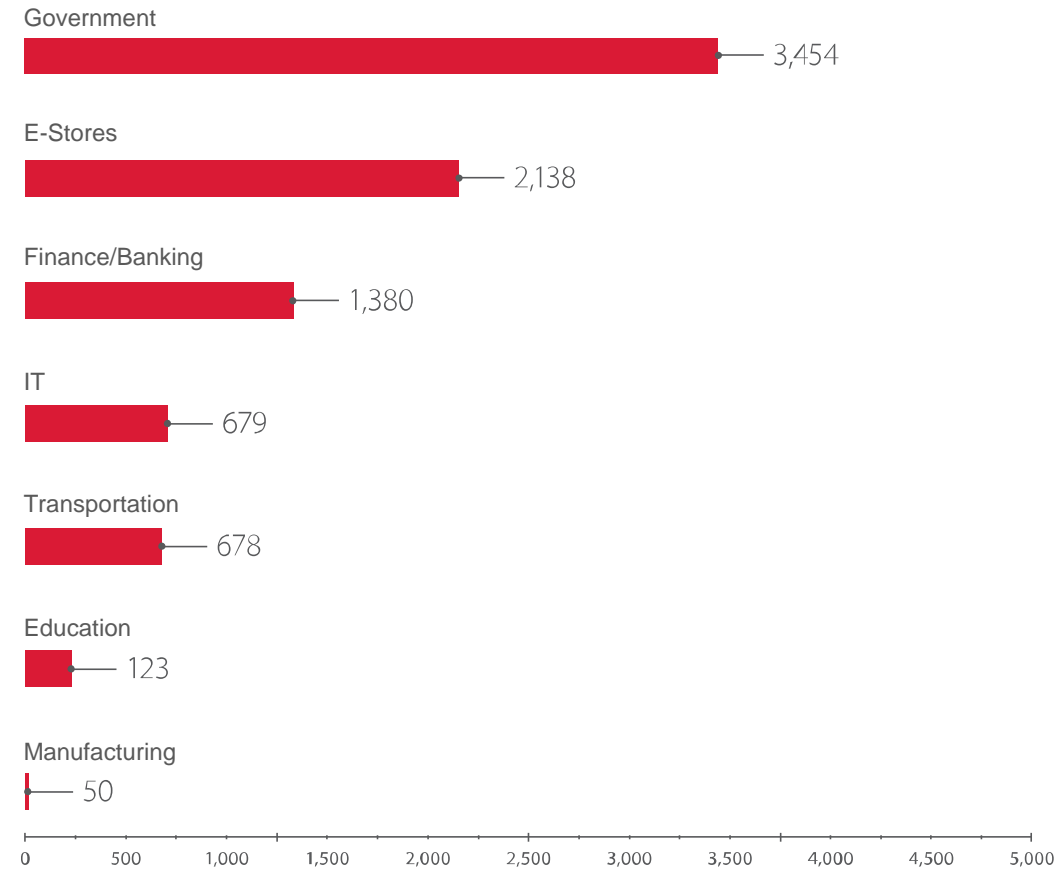
Source: HPE Cyber Risk Report 2016



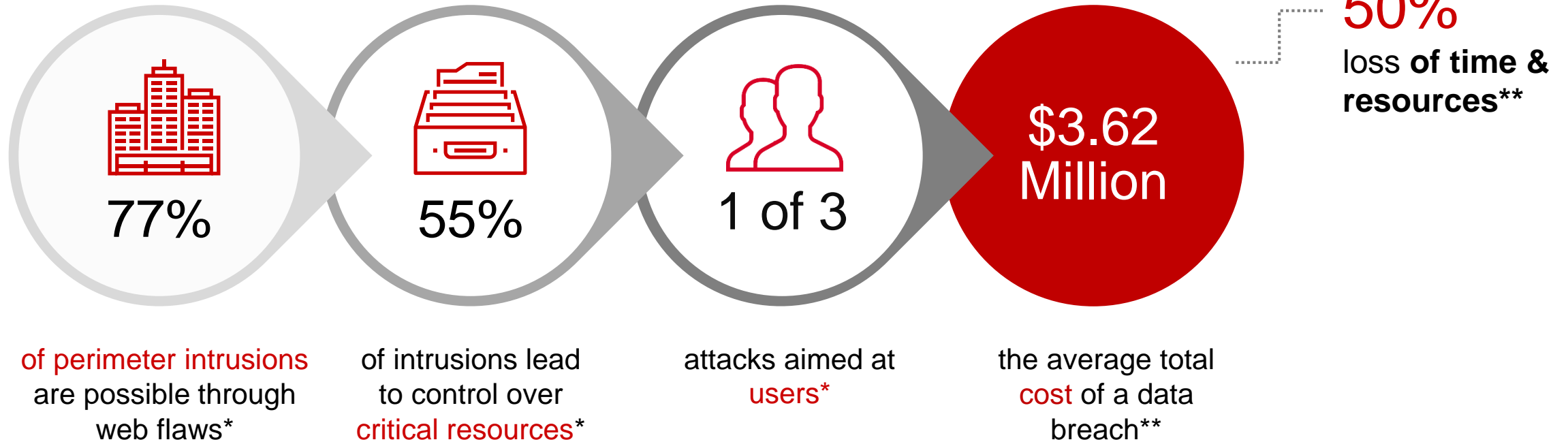
Web attacks — the #1 vector for data breaches*



Thousands of attacks performed per day**



Sources: *Verizon Data Breach Investigations Report 2017, **Positive Research 2017



- **Lack of Security Awareness**

IT Security oriented on network and host hardening.

- **Deceptive Simplicity**

There is a huge difference between producing code that is functional and code that is secure

- **Custom Development**

Every application is different and contains it's own defects.

- **Rapidly Evolving Threat Profile**

A developing team that begins a project with a complete knowledge of current threats may have lost this status by the time app is completed.

- **Resource and Time Constraints**

Most web application projects are subject to strict constraints on time and resources.

- **Overextended Technologies**

Many of the core technologies employed in web applications began life when the landscape of the WWW was very different.

- **In-house developing application**
- **Vendor supported product**
- **Live open source project**



Report vulnerability
Wait for patch
Update your systems
Profit!

From **1** month
To **3** years

- **Legacy application**
- **Death open source project**
- **End of Life product**



Find responsible.
???

May not be
complete

**Positive Technologies positioned
as a Visionary in Gartner Magic
Quadrant 2017 for Web Application
Firewalls **for the third year in a row****



As of August 2017

Accept Known Good

Reject Known Bad



PT AF™

HMM
Learning

Blocking anomalies

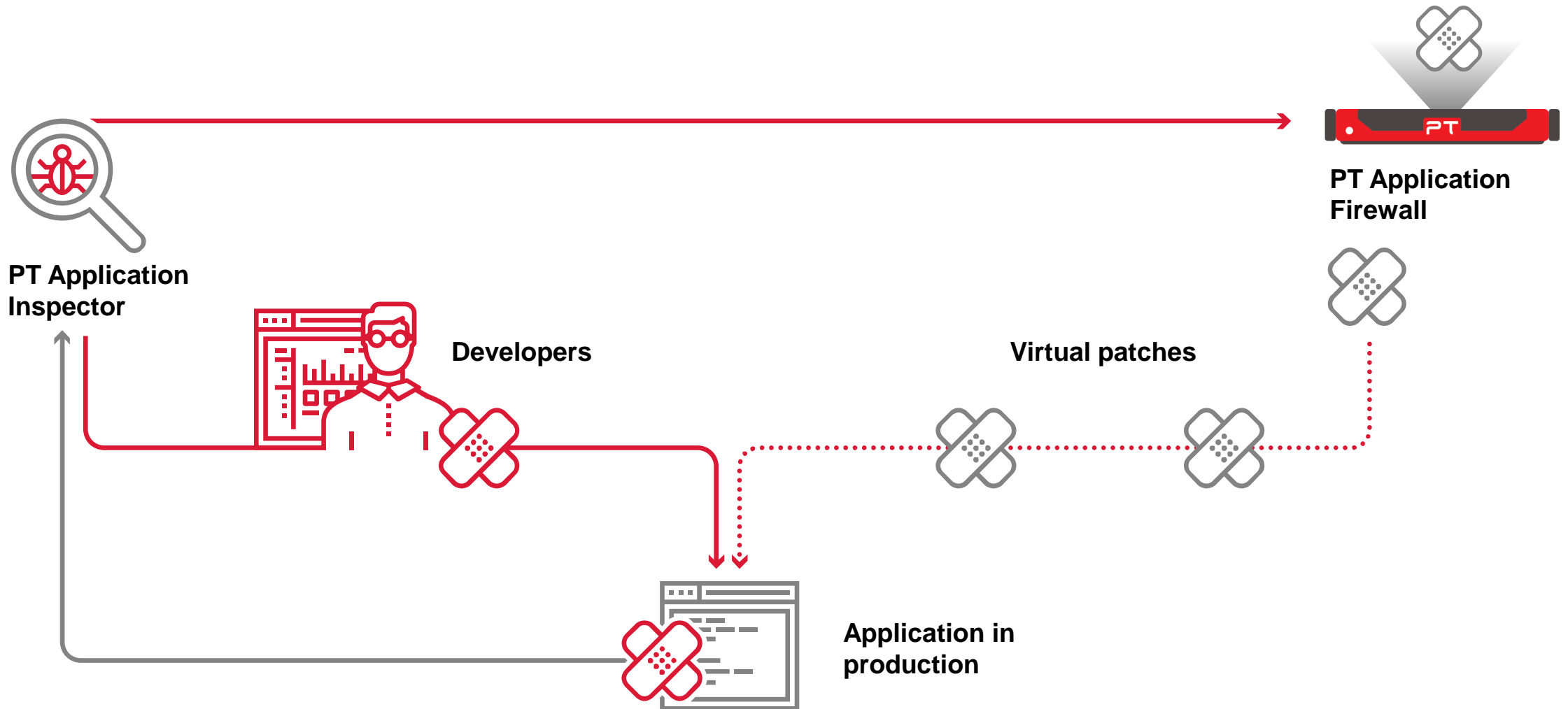
application.com

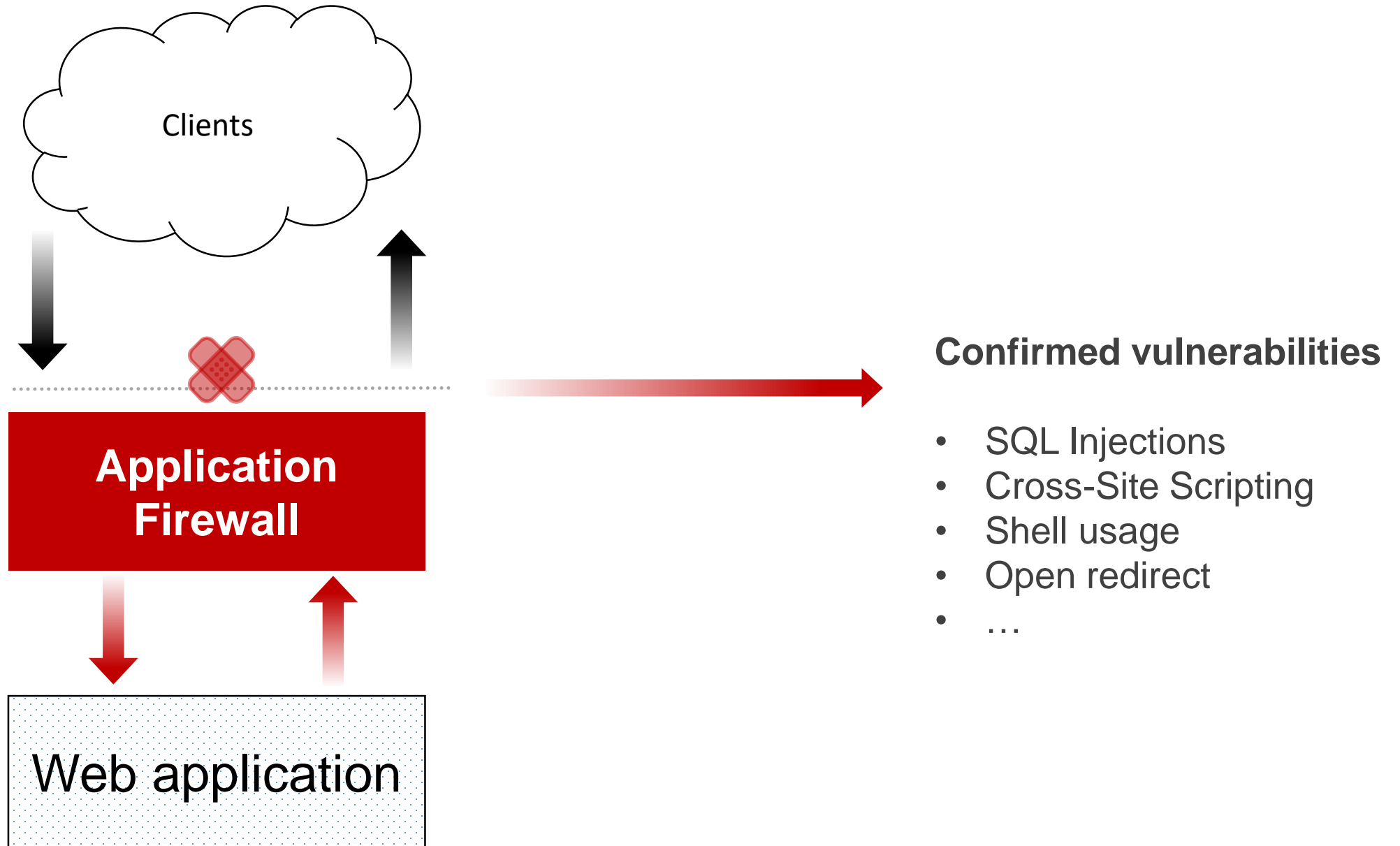
	Aa	0-9	%()	“*"
Aa	284	153	305	14
0-9	427		589	
%()		352	472	28
“*"	17	53		

Attacks in the traffic don't influence the quality of the learning process

What's new in Negative model?

POSITIVE TECHNOLOGIES





Machine learning for
Positive model

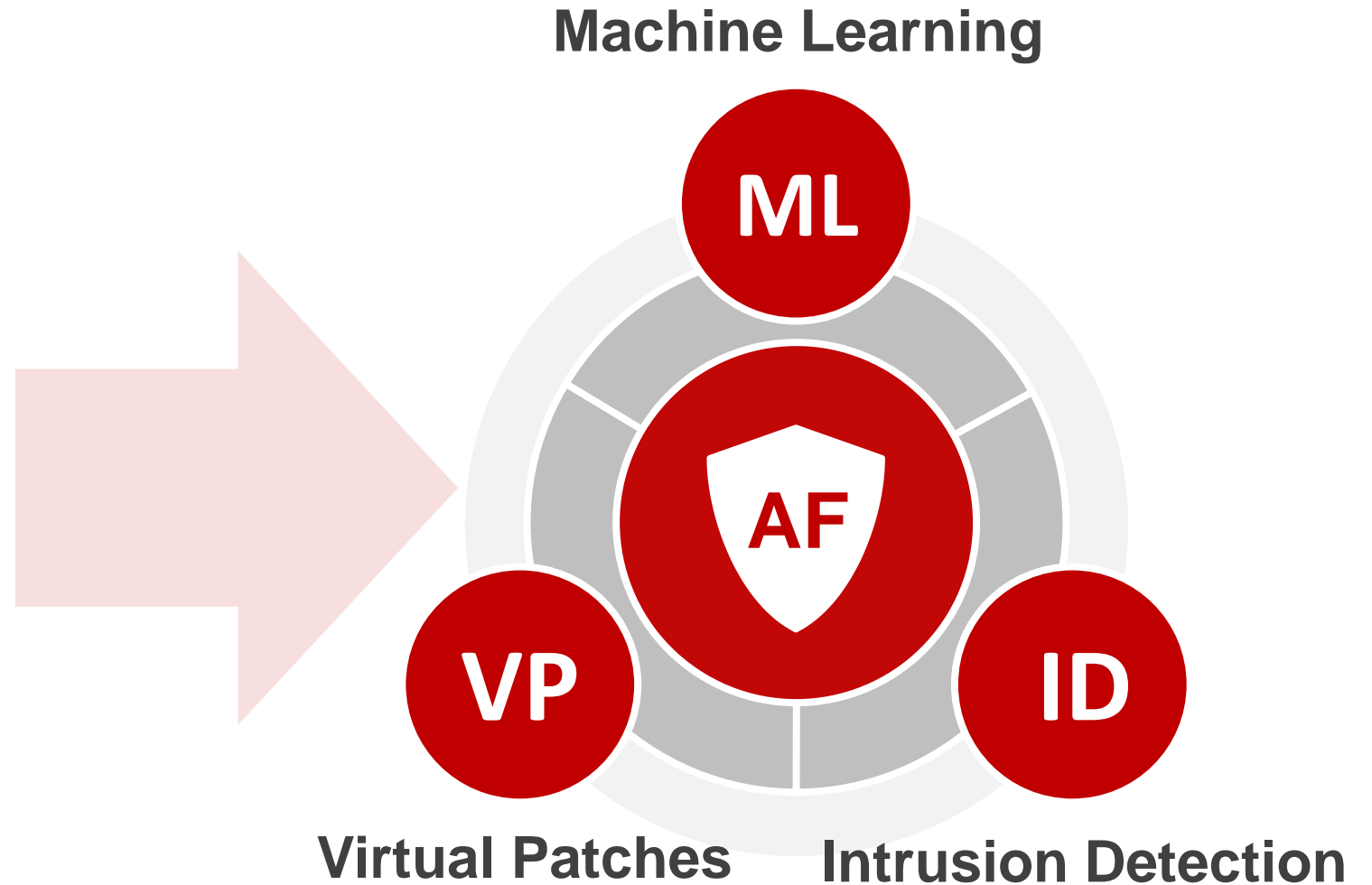
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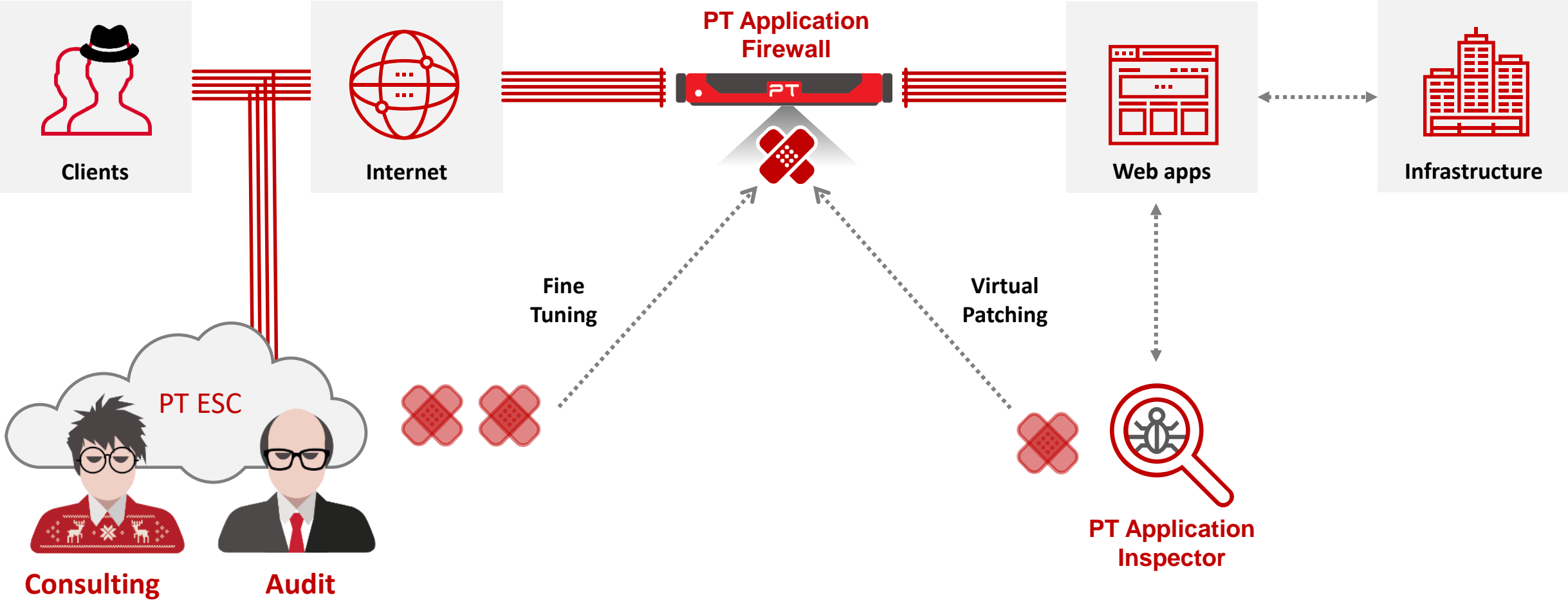
Virtual patches for
Negative model

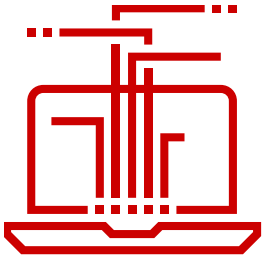
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Event correlation for
Intrusion Detection

.....







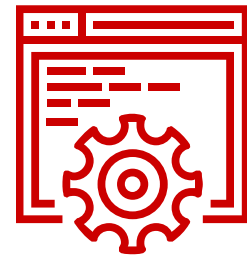
Instant availability

- Hardware
- Virtual appliances
- Public cloud ([MS Azure](#))



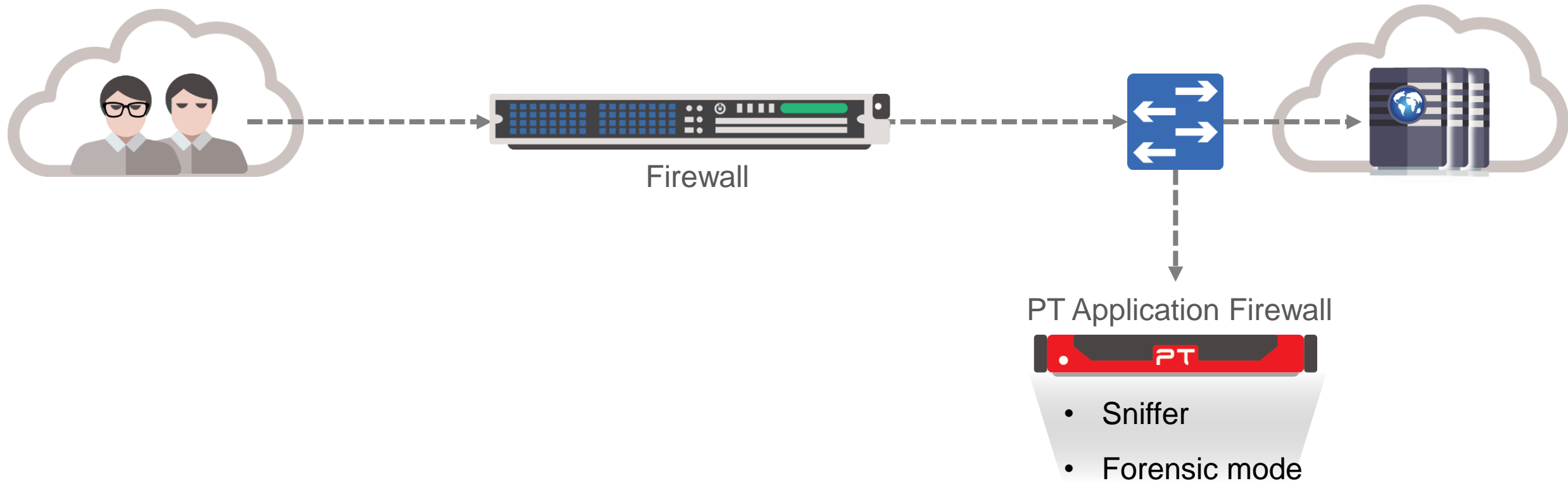
Quick start

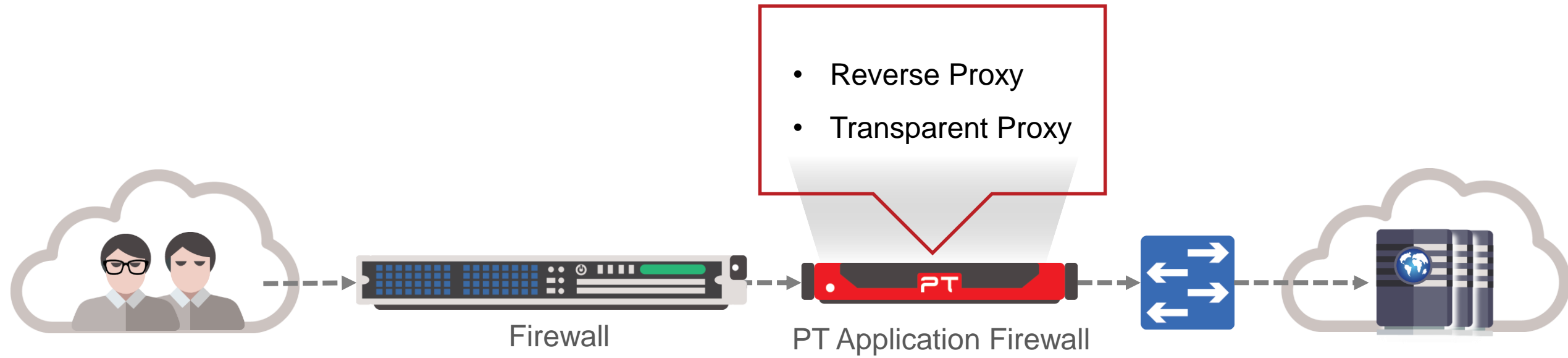
- Five deployment options
- Convenient setup wizard
- Intuitive web interface



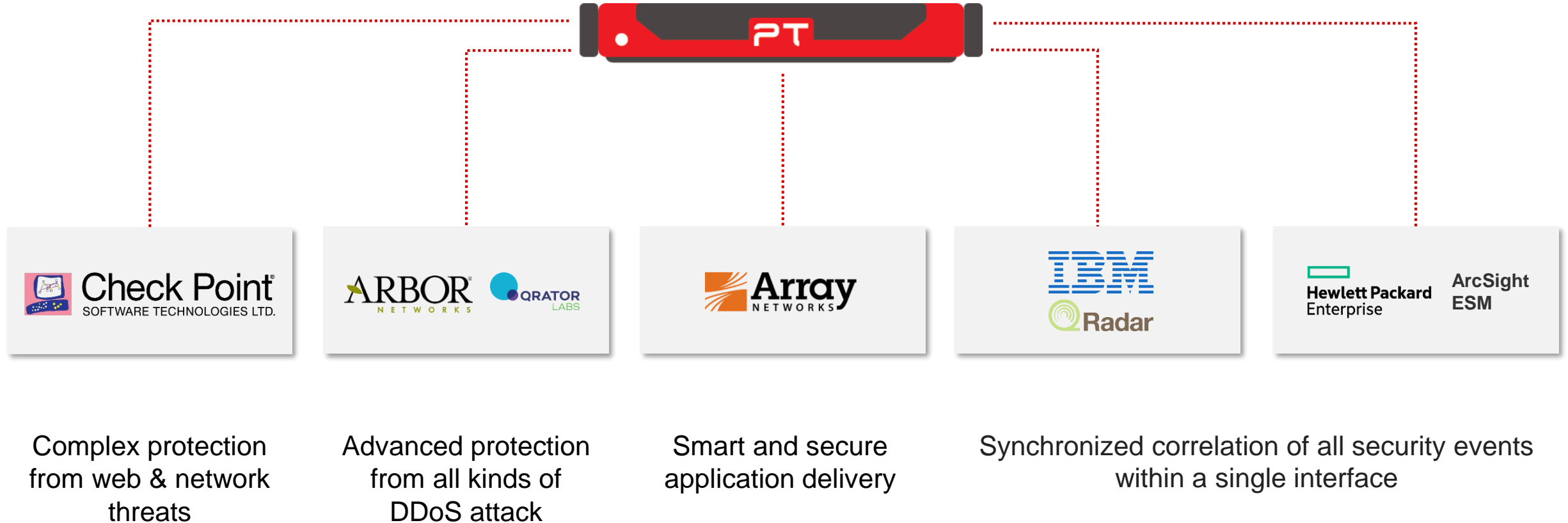
Flexible configuration

- Automatic detection of apps
- Predefined security templates
- Time-saving settings reuse





PT Application Firewall





Thank you!