PT Unified Application Security Enforcement

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Positive Technologies: Key facts

POSITIVE TECHNOLOGIES

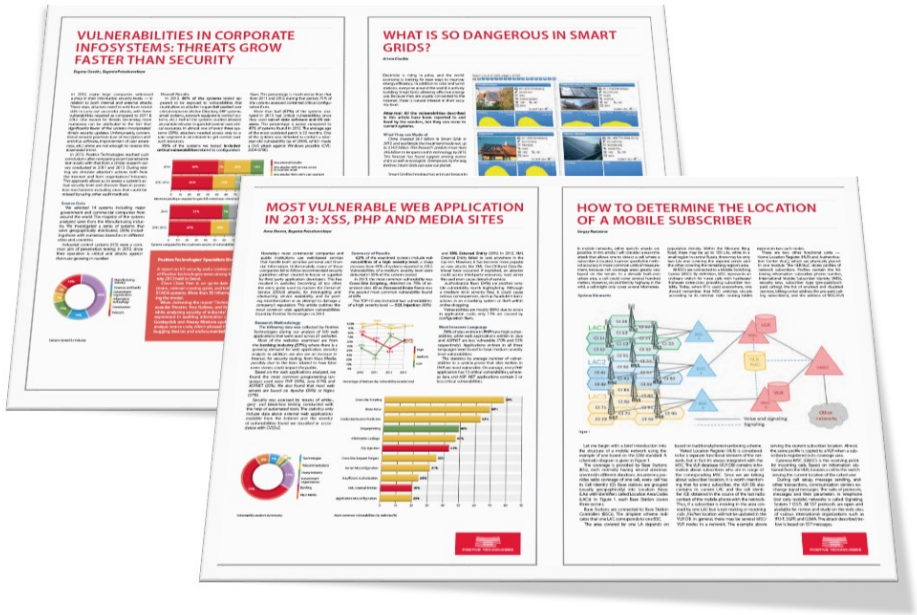
- **Over 700** employees
- **Over 1,000** enterprise customers
- **Over 15 years** of investment in R&D
- **Europe's largest** IS research company
- **Long-term partnerships** with Microsoft, Cisco, Check Point, Array Networks, and more

We found over 200 zero-day Vulnerabilities in 2016

Positive Technologies: Ongoing research for the best solutions

POSITIVE TECHNOLOGIES

- Penetration Testing
- ICS/SCADA Security Assessment
- Cell Network Security Assessment
- Mobile Application Security
- **Web Application Security**
- Custom Application Security
- Forensic Investigation
- Advanced Border Control
- ATM Security Assessment



https://www.ptsecurity.com/upload/corporate/ww-en/analytics/Positive-Research-2016-eng.pdf

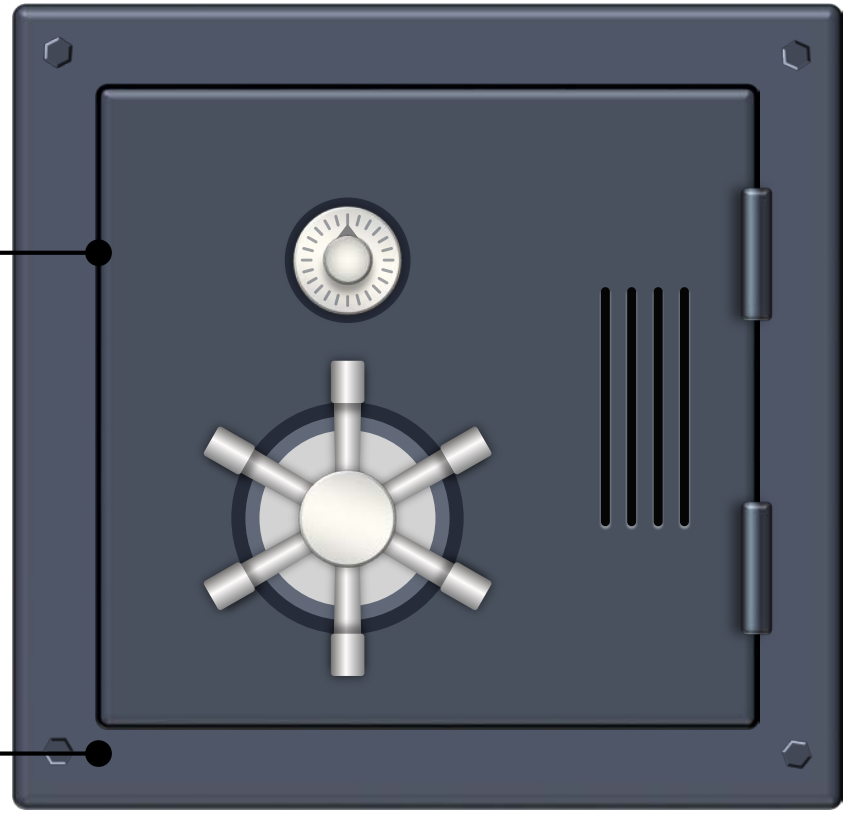
Web Applications: Gateways to Rich Data

POSITIVE TECHNOLOGIES

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.”

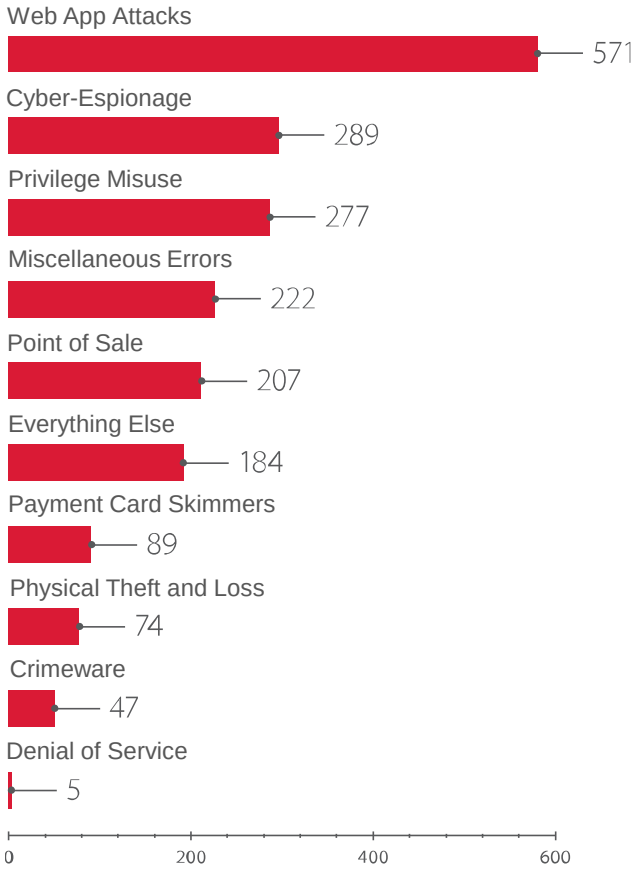
Source: HPE Cyber Risk Report 2016



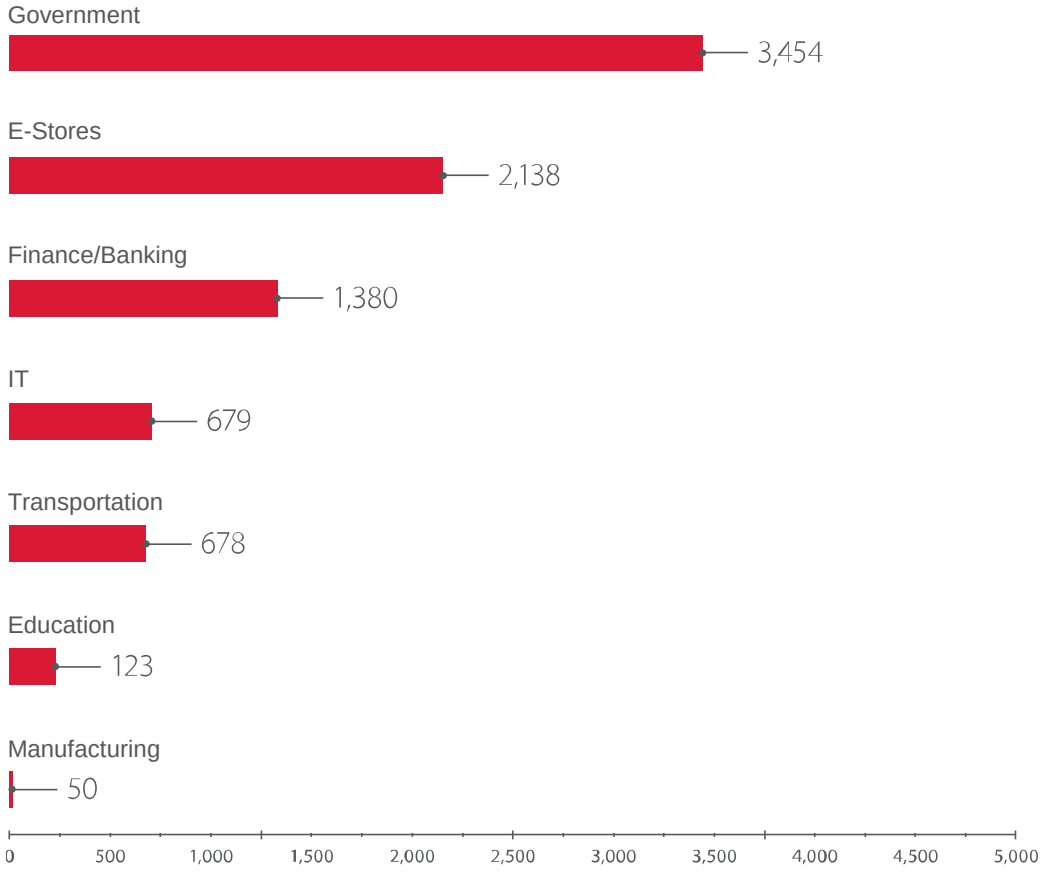
Application security market state

POSITIVE TECHNOLOGIES

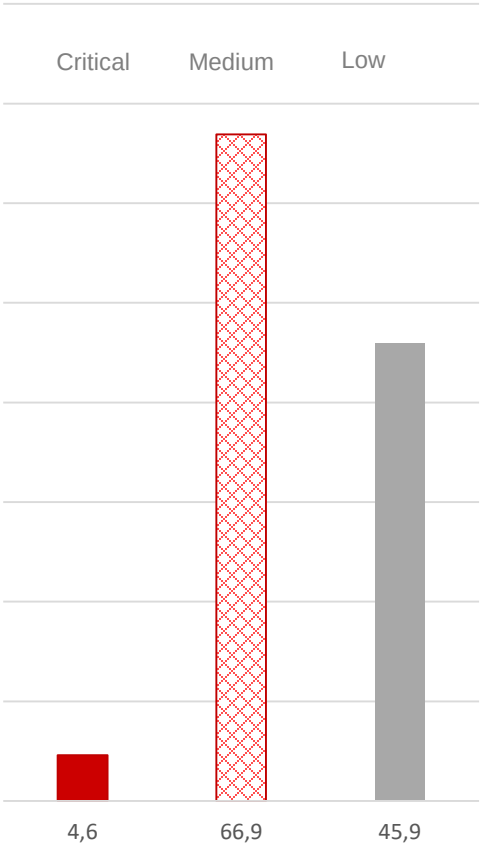
Web attacks — the #1 vector for data breaches*



Thousands of attacks performed per day**



The average app contains 100+ flaws**



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

Application security business risks

POSITIVE TECHNOLOGIES

77%

of perimeter intrusions are possible through web flaws*

55%

of intrusions lead to control over critical resources*

1 of 3

attacks aimed at users*

$3.62 Million

the average total cost of a data breach**

50%

loss **of time & resources****

Sources: *Positive Research 2017, **Ponemon Institute 2017

Example of application breaches

POSITIVE TECHNOLOGIES

Following Equifax breach, FBI issues flash alert for Apache Struts flaws

The vulnerability referred to in the alert was CVE-2017-5638 which could allow an attacker to remotely run code on a web server, access files and bypass security controls by sending unauthenticated web requests to an unpatched machine.

Equifax executives were notified of the vulnerabilities and twice searched for any issues in its networks only to leave the flaw unpatched in its Consumer Dispute Portal. The alert urges companies to take proactive steps to prevent similar attacks.

Key Problems Factors

POSITIVE TECHNOLOGIES

- **Lack of Security Awareness**

IT Security oriented on network and host hardening.

- **Custom Development**

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

- **Deceptive Simplicity**

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

- **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.

Web application vulnerability found

POSITIVE TECHNOLOGIES

- **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

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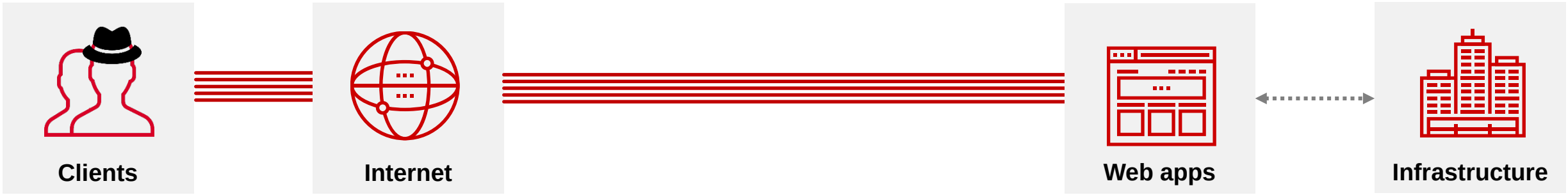
POSITIVE TECHNOLOGIES



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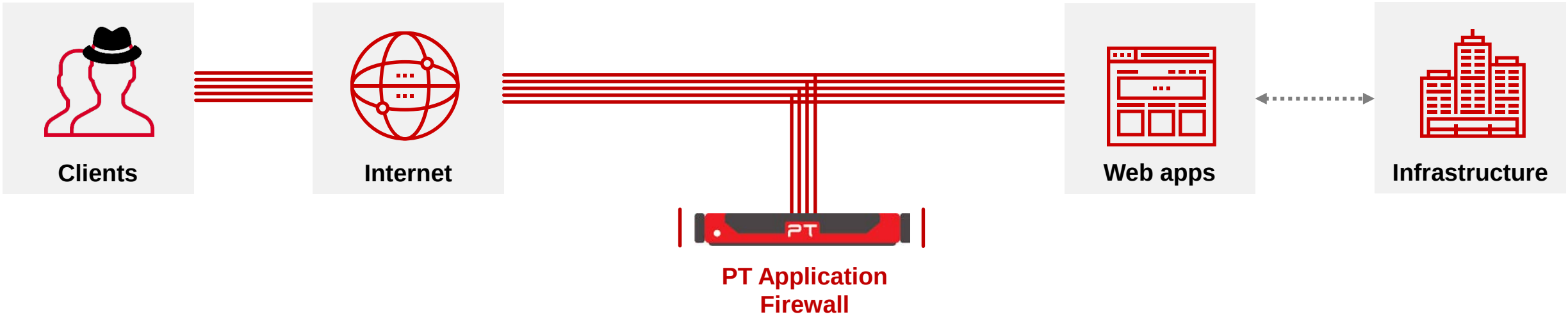
POSITIVE TECHNOLOGIES



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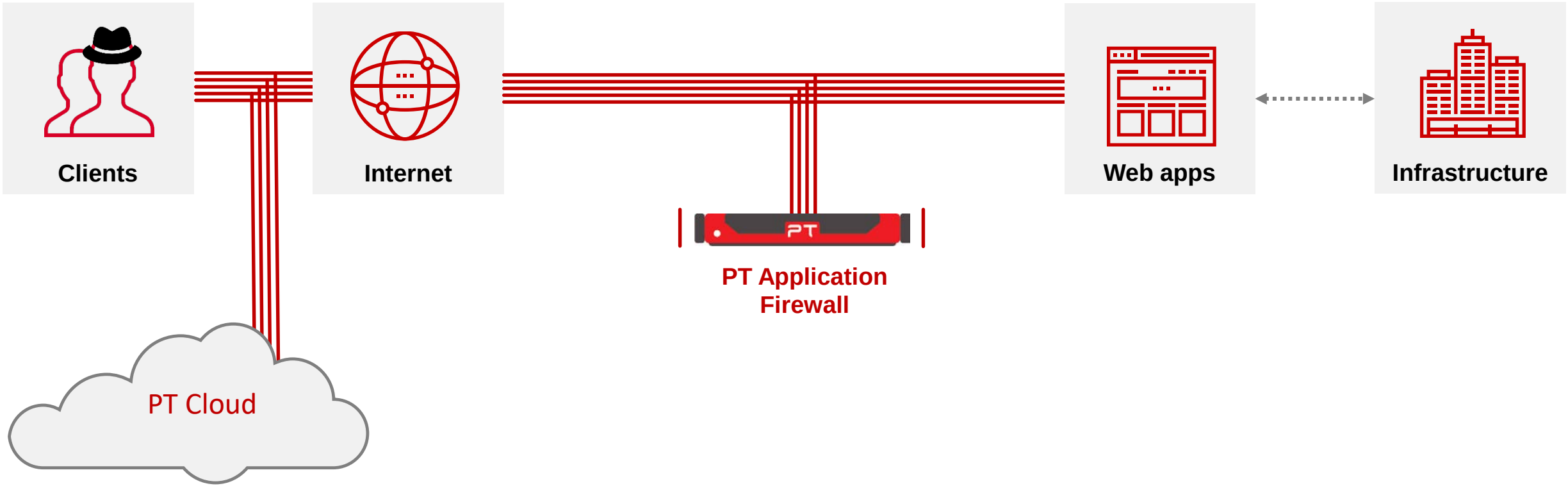
POSITIVE TECHNOLOGIES



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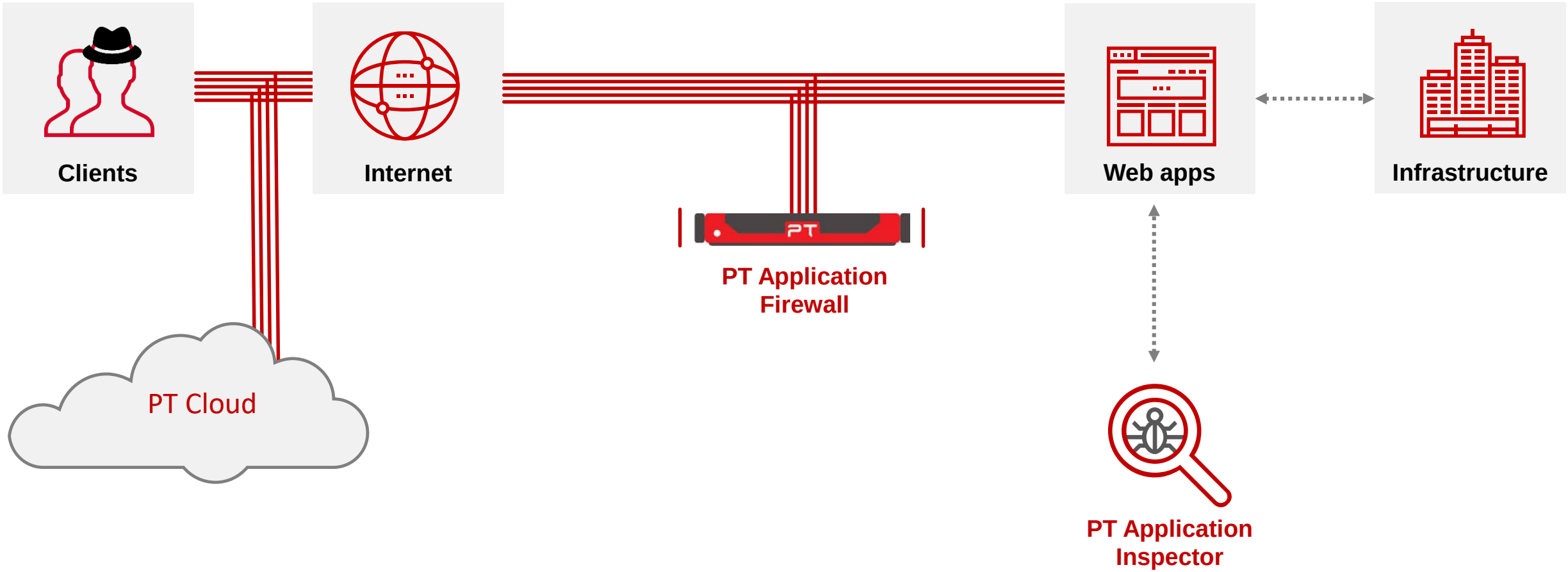
POSITIVE TECHNOLOGIES



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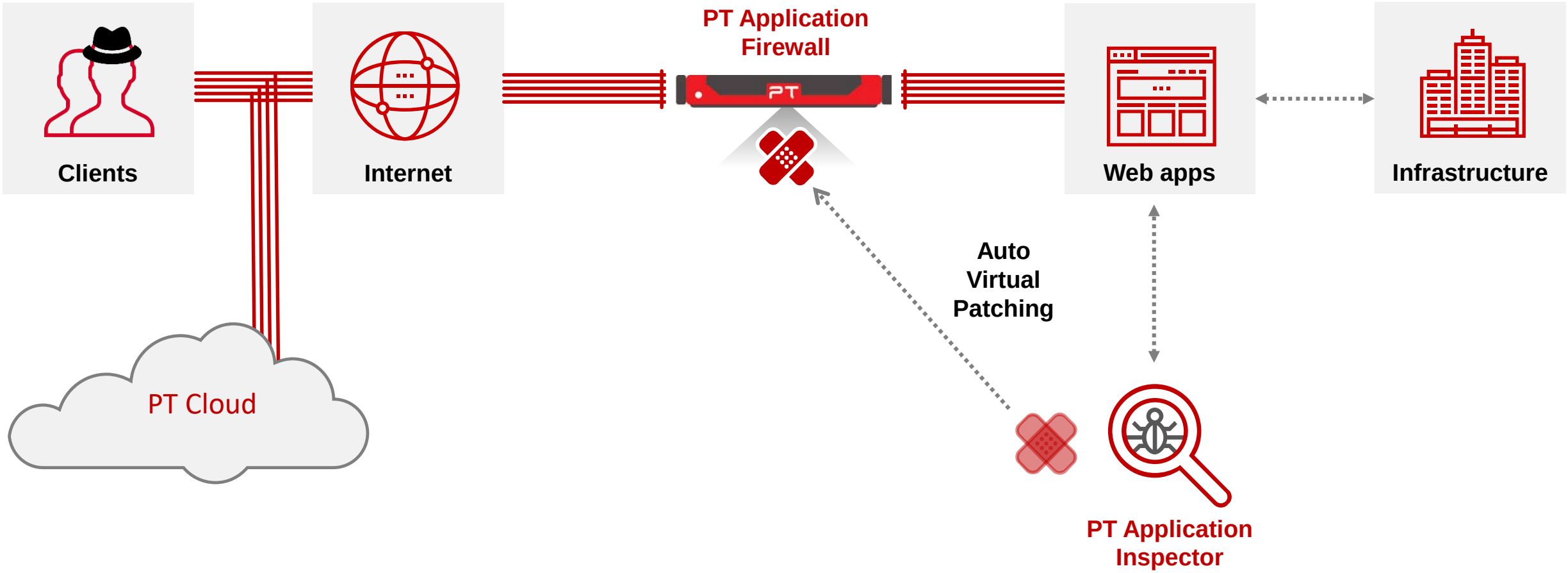
POSITIVE TECHNOLOGIES



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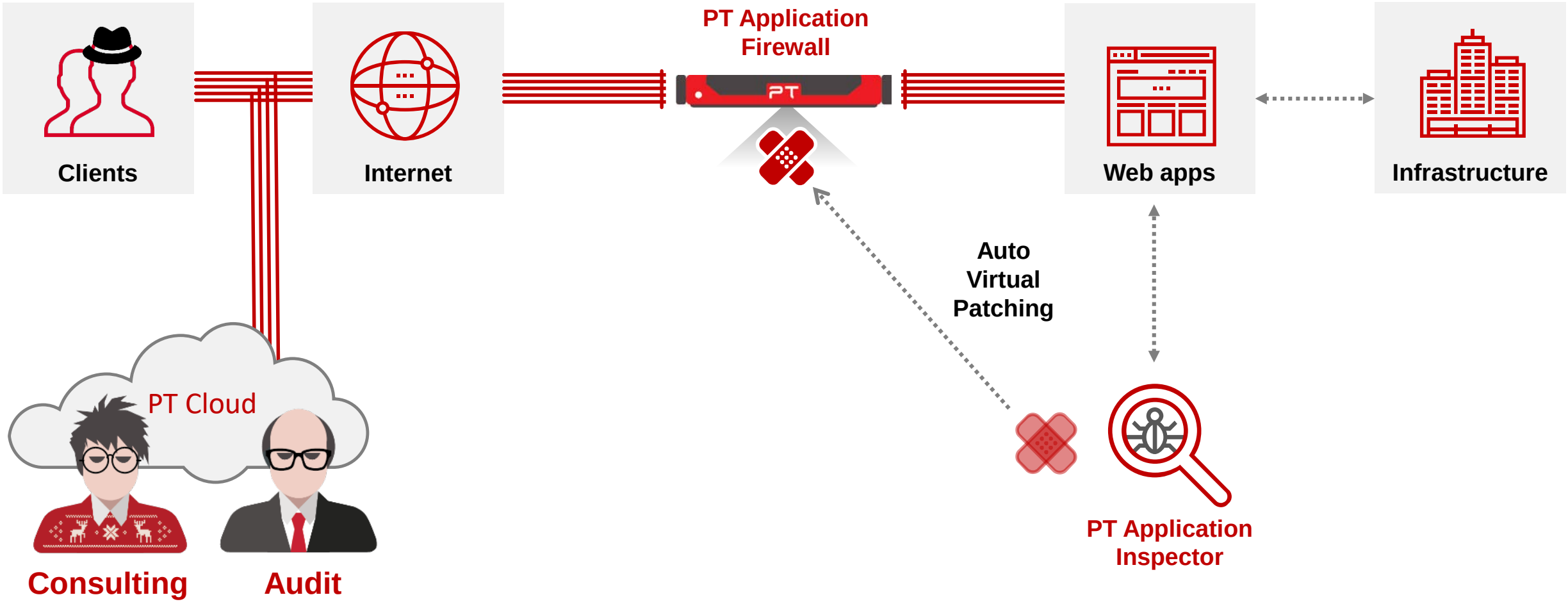
POSITIVE TECHNOLOGIES



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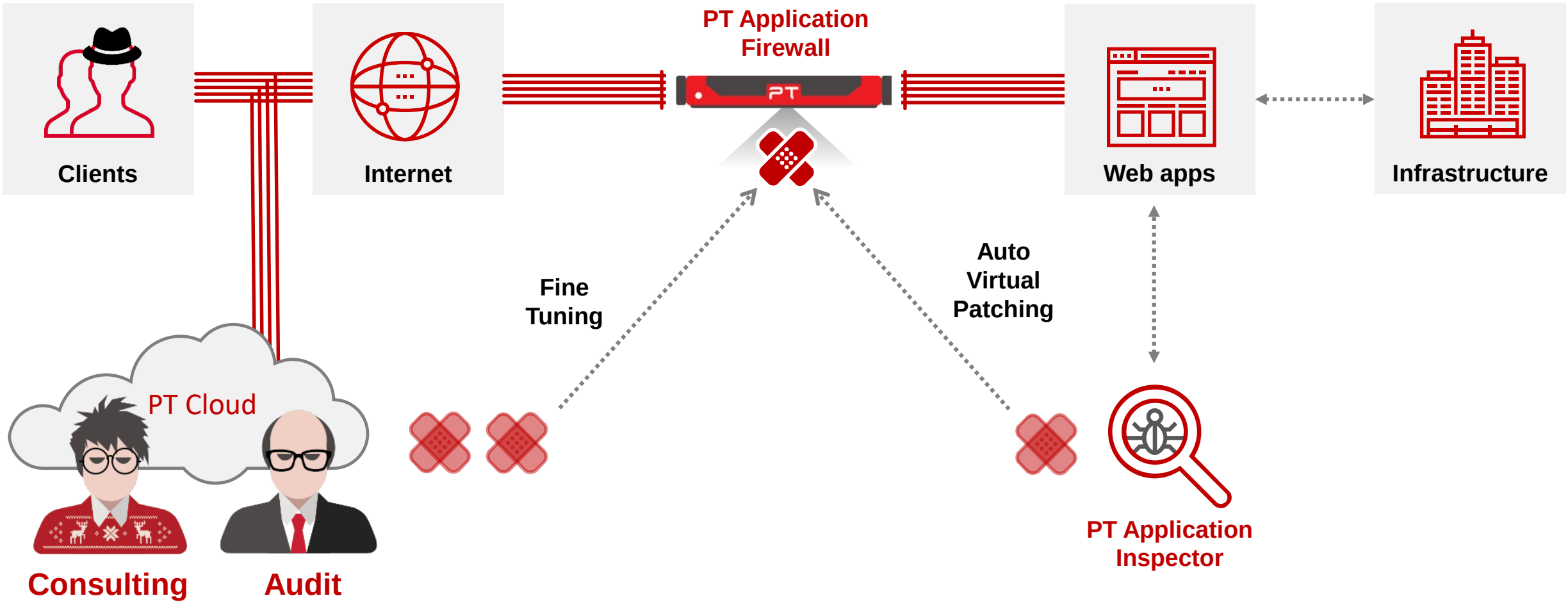
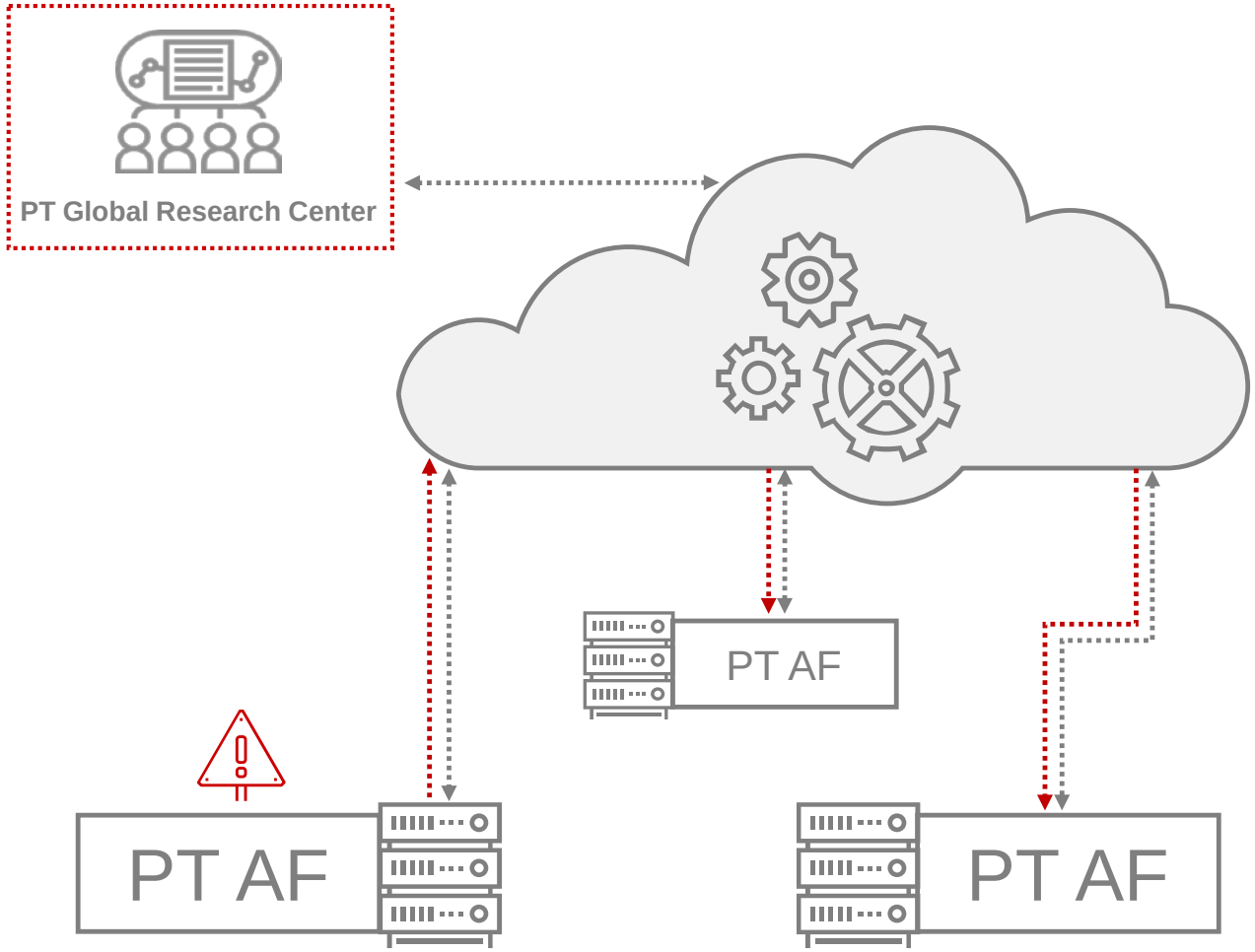


PT ML-powered Global Web Threat Intelligence

POSITIVE TECHNOLOGIES

+ **Threat Hunting**
+ **Knowledgebase update**
+ **New security mechanisms**
+ **Community defense**



PT AF: Technology Leadership — Recognized by Gartner

POSITIVE TECHNOLOGIES

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

Thank you!

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