



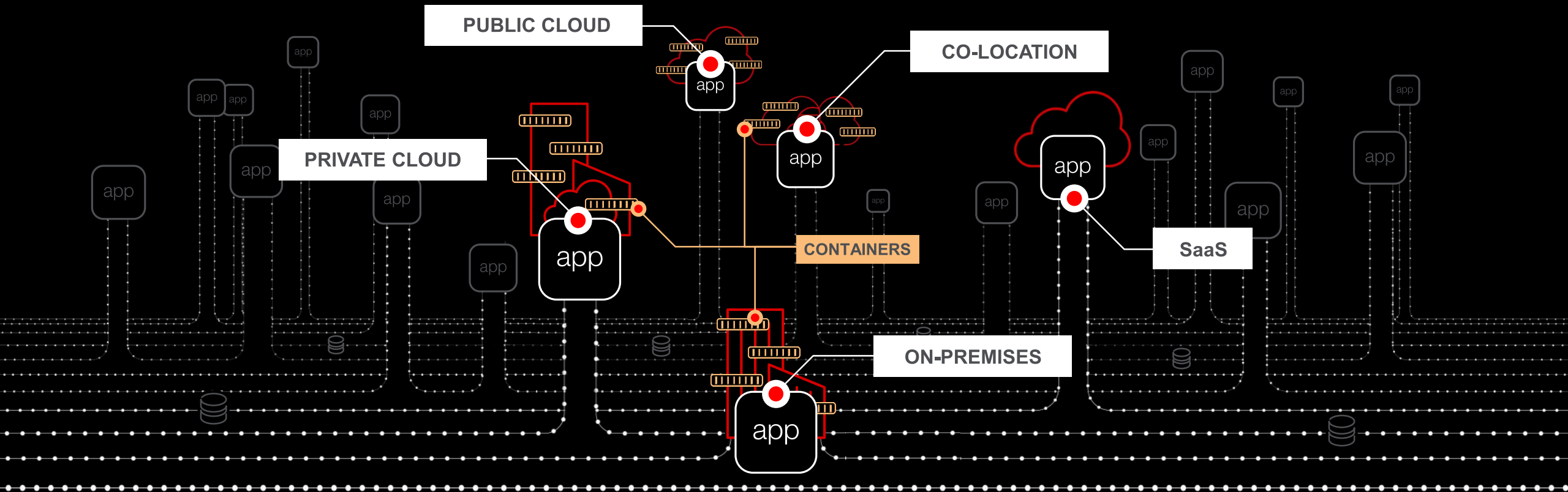
PRESENTED BY:

Artiom Lichtenstein

חשמל 2018  **Electricity 2018**
הכנס השנתי הבינלאומי בתחום הנדסת חשמל ואנרגיה

Think App Security First

Now, Your Apps Are Everywhere



So Are New Challenges

Which cloud to choose?

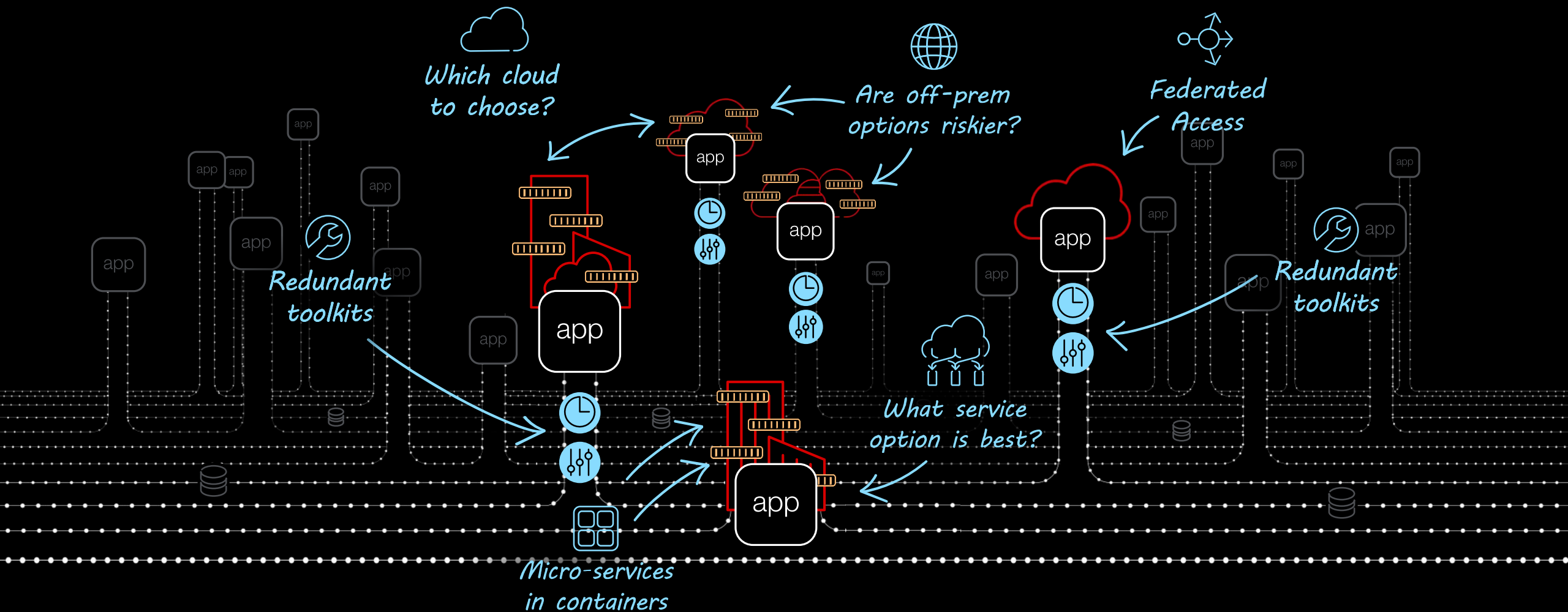
Are off-prem options riskier?

Federated Access

Redundant toolkits

What service option is best?

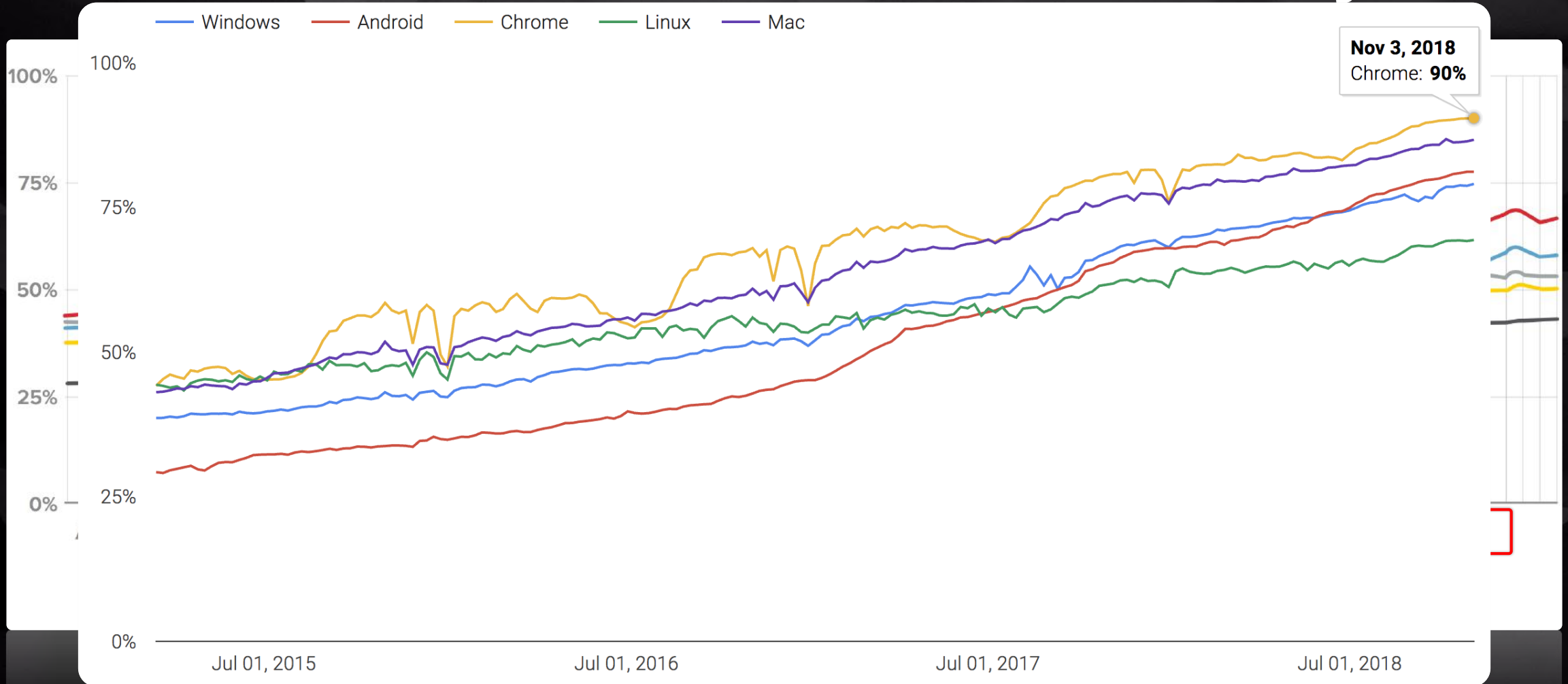
Micro-services in containers



yet profound

The quiet revolution

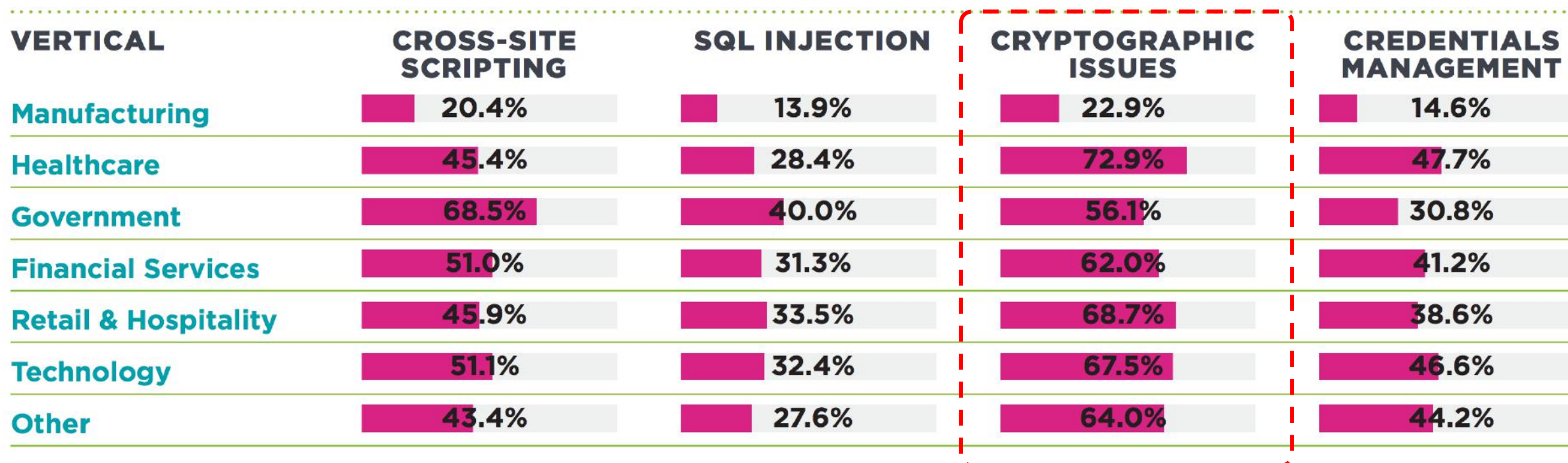
For the first time in human history



the majority of the Internet was encrypted.

High profile vulnerabilities

Prevalence of selected high profile vulnerabilities by industry vertical



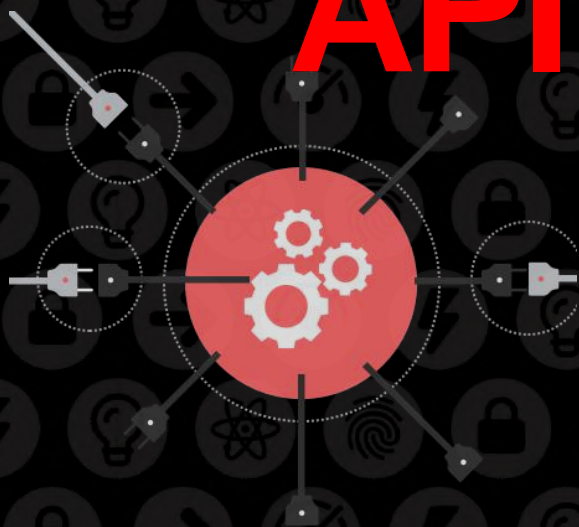
Wait, what?

HTTPS is the new TCP





API is the new UI



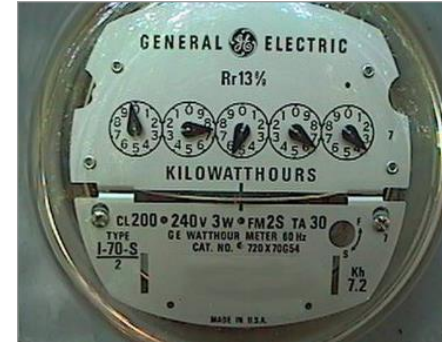
Innovation and Technology Transformation



TRANSPORTATION



MANUFACTURING



UTILITIES



AGRICULTURE

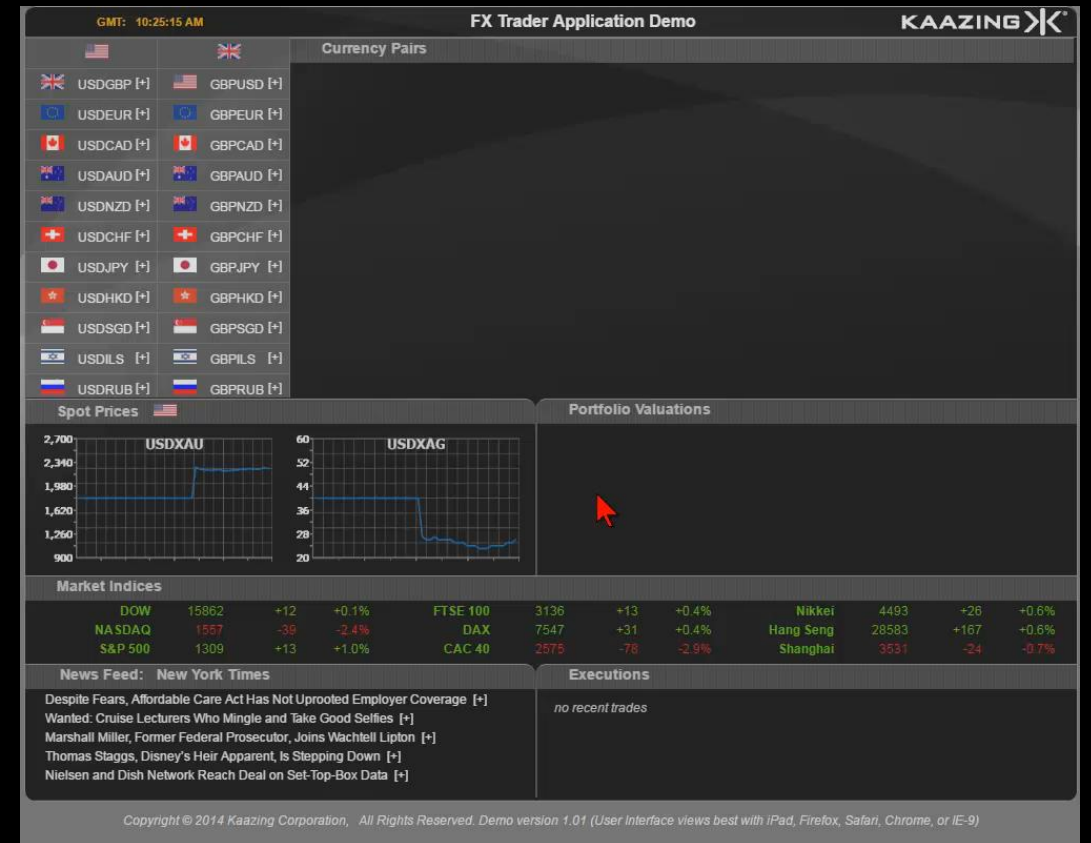


WebSocket

- WebSocket provides a simple framing layer on top of HTTP
- Allows "conversational" connection

Key Benefits :

- Two-way communication
 - Connections that are persistent
 - Full-duplex
 - Low HTTP and TCP overhead
- WebSocket protocol is [RFC 6455](#)



API flaws said to have left Symantec SSL certificates vulnerable to compromise

Without authentication or verification, attackers could obtain anyone's certificate simply by altering a UID

HACKED

Security

Facebook: Up to 90 million addicts' accounts slurped by hackers, no thanks to crappy code

Miscreants harvested tens of millions of profiles via 'View as...' feature, dodgy API



The Register
Biting the hand that feeds IT

A DATA CENTRE SOFTWARE SECURITY DEVOPS BUSINESS PERSONAL TECH SCIENCE

Security

Instagram's leaky API exposed celebrities' contact details

ars TECHNICA

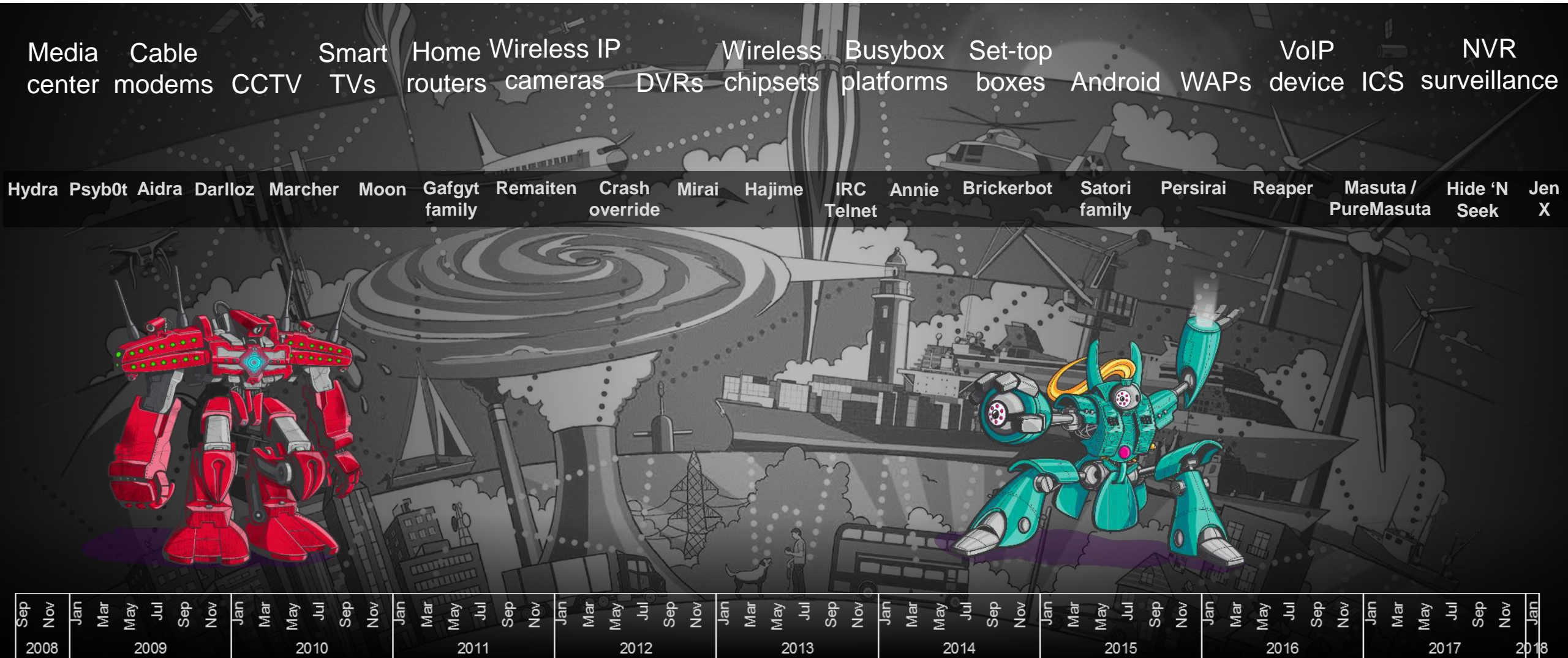
BIZ & IT TECH SCIENCE POLICY CARS GAMING & CULTURE

NUMBER PORTABILITY —

T-Mobile customer data plundered thanks to bad API

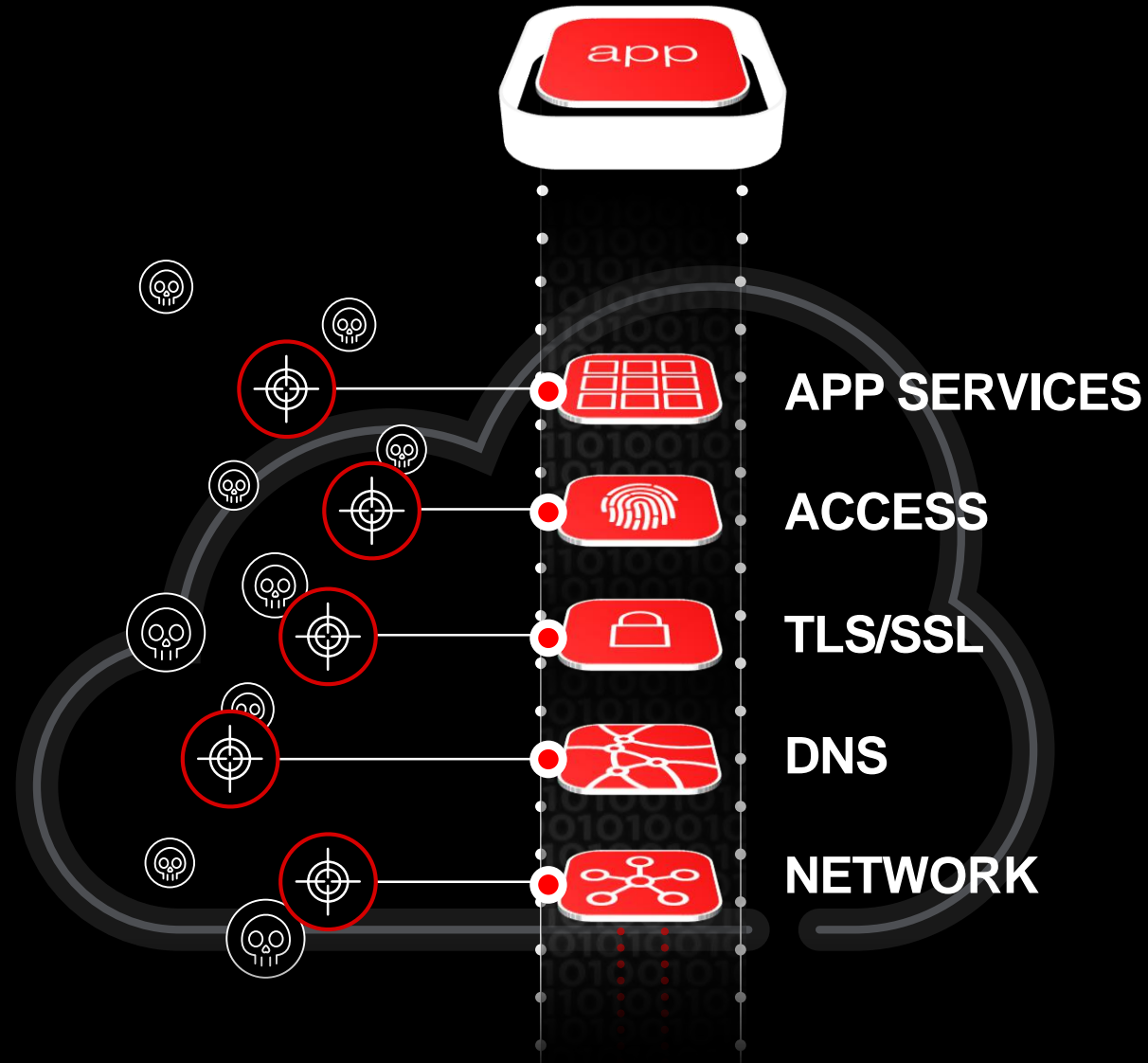
T-Mobile missed bug that allowed harvesting of IMSI numbers, security question answers.

Thingbots Have Been Hiding In Plain Sight



Increased Complexity Means Increased Risk

Apps are
the gateway
to your data.

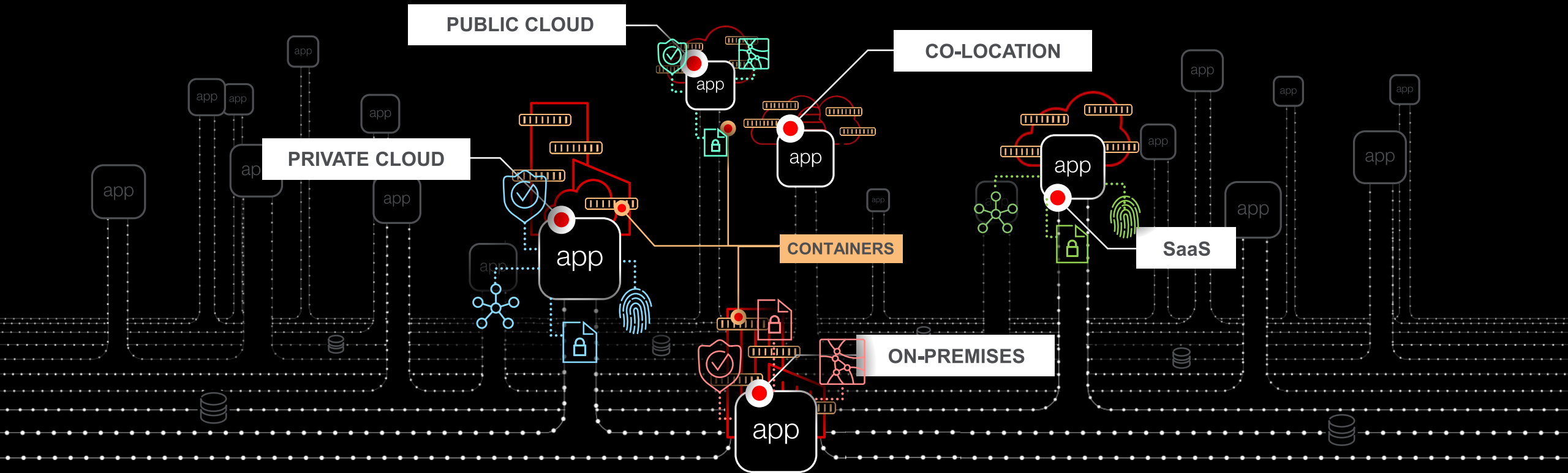




An **Application Services** Company



F5 Networks



AWAF
ANTI-BOT
API FW



APP AWARE
LB
DDOS



TLS
DNS

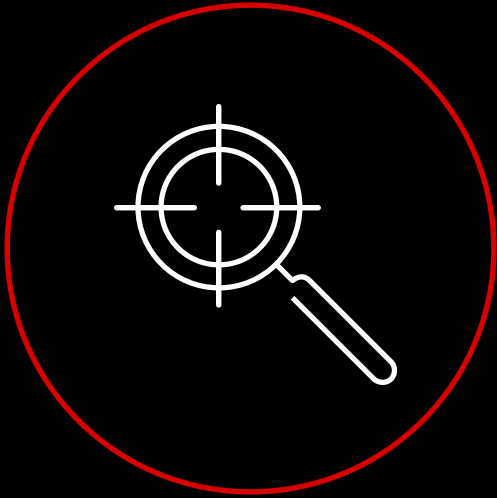


ACCESS
CONTROL



SECURITY
POLICIES

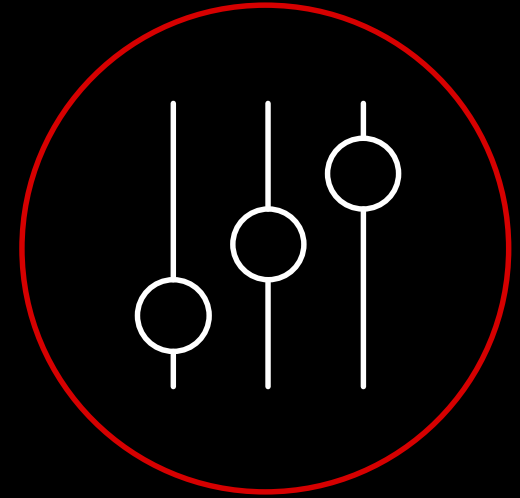
How to Secure Apps?



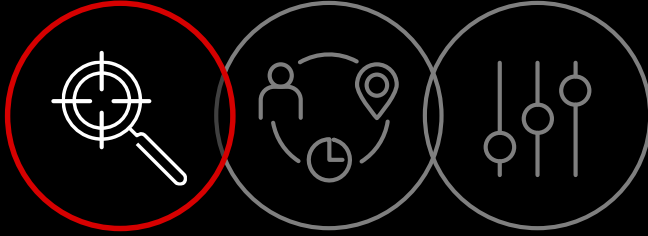
VISIBILITY



CONTEXT

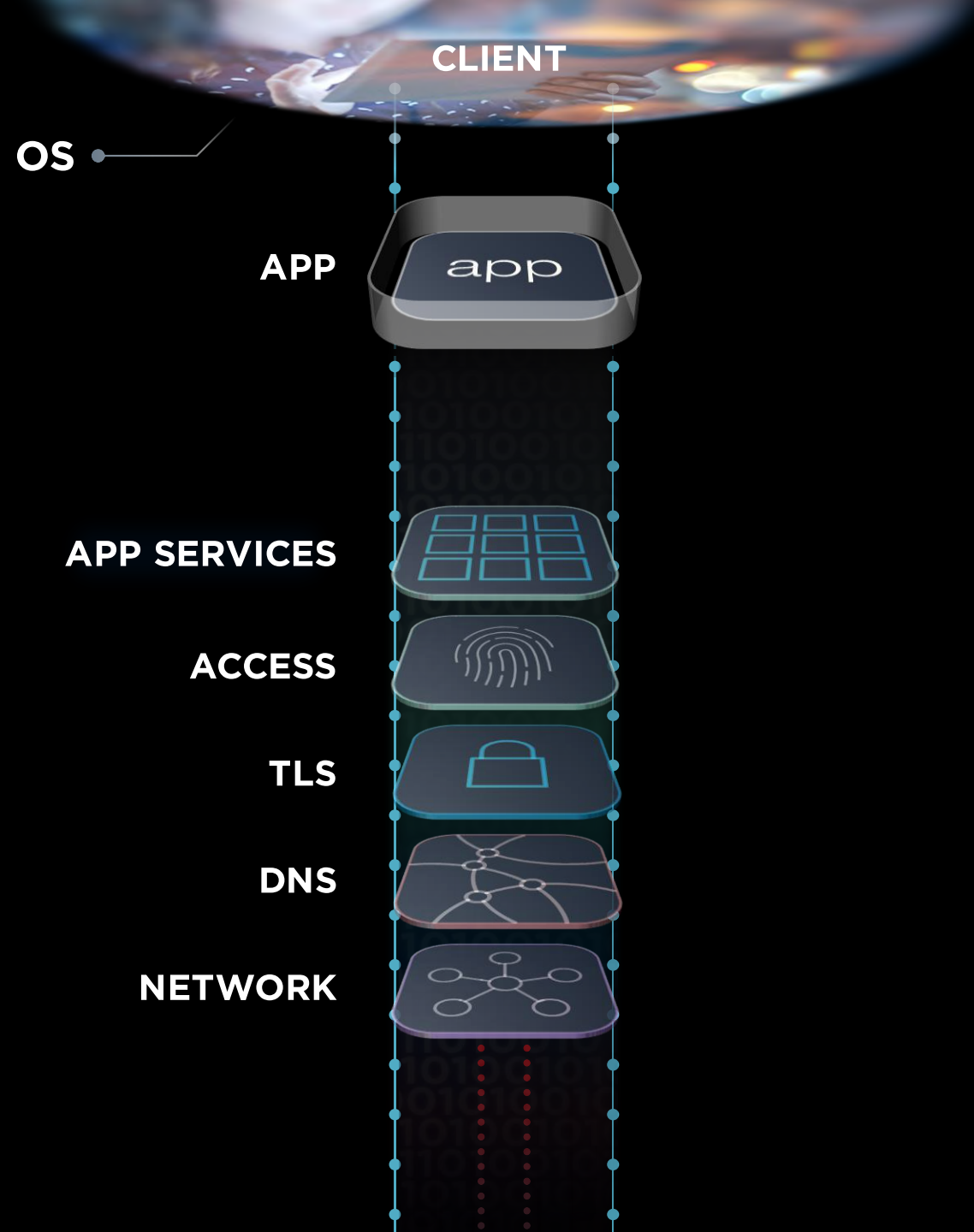


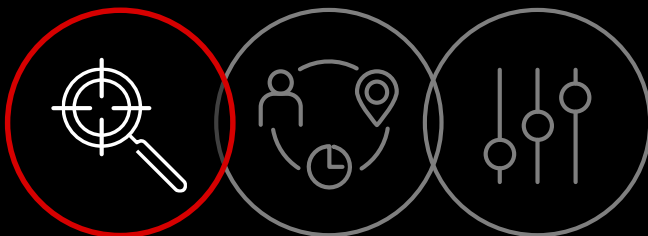
CONTROL



VISIBILITY

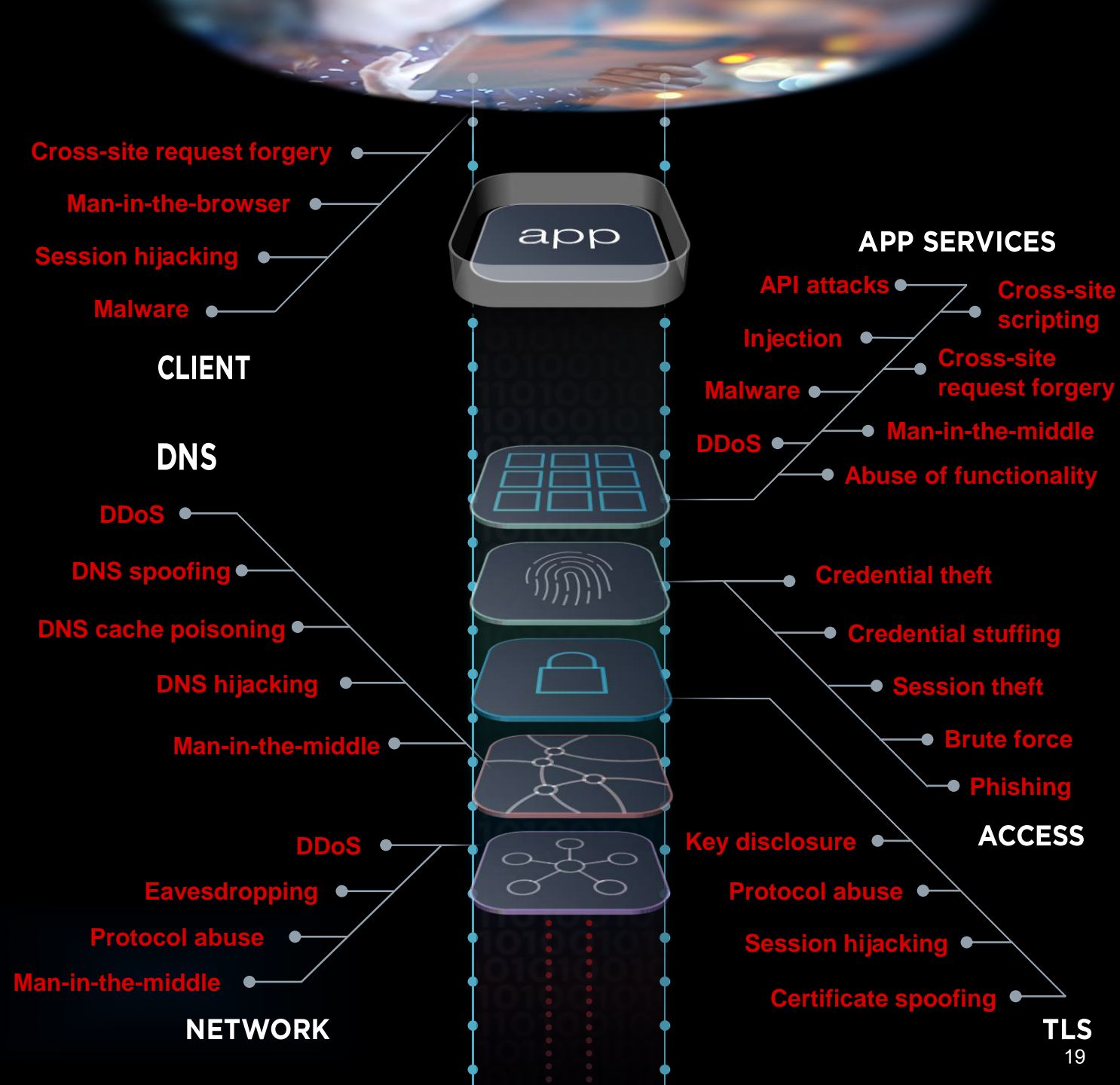
Visibility into the app...

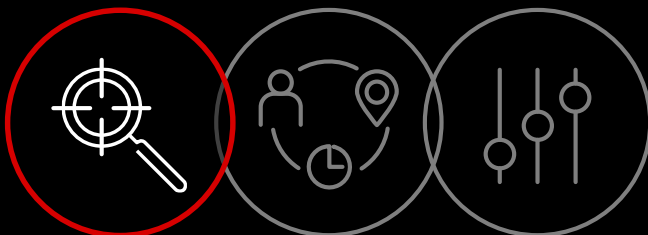




VISIBILITY

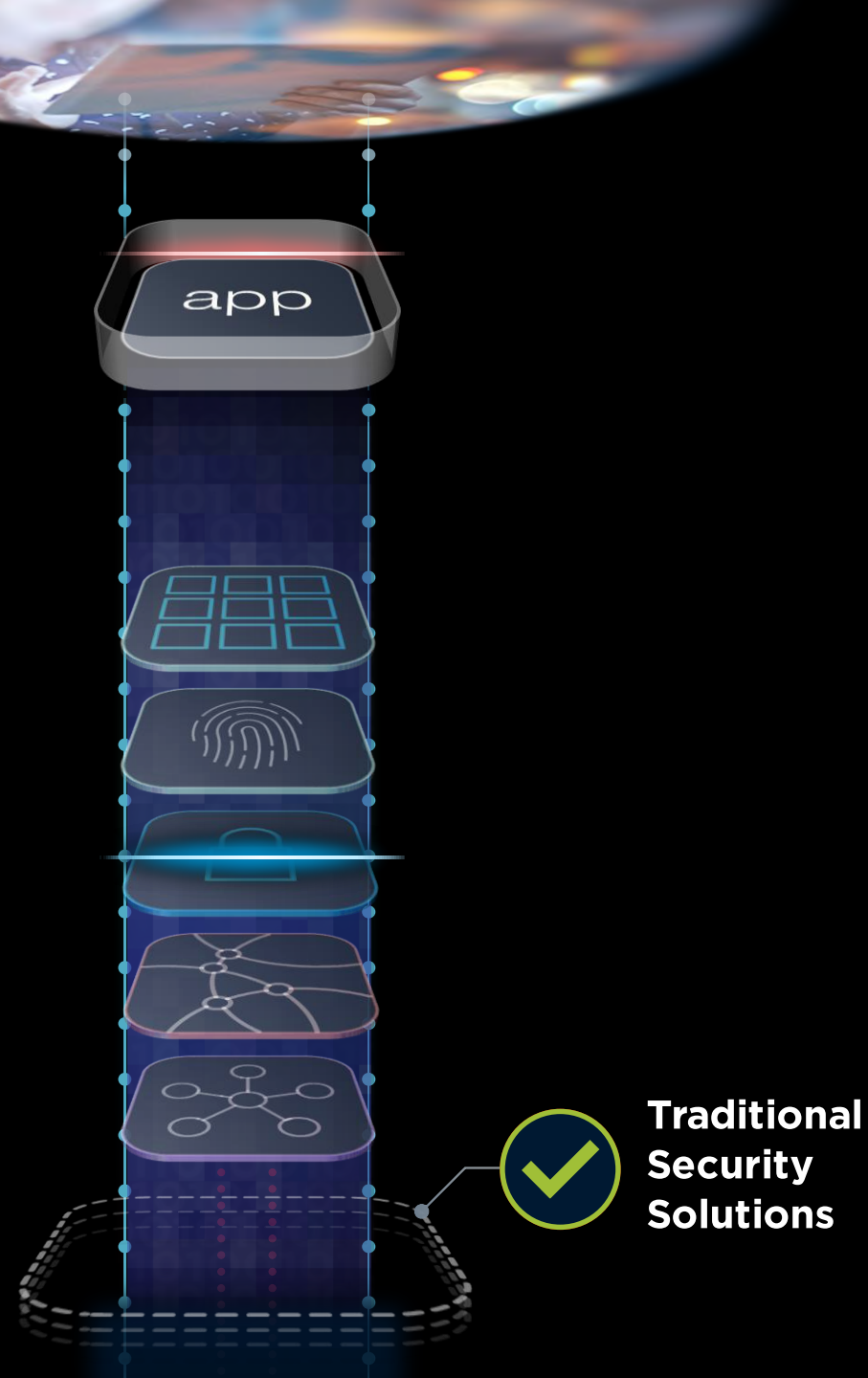
Visibility into threats...





VISIBILITY

Visibility through decryption ...

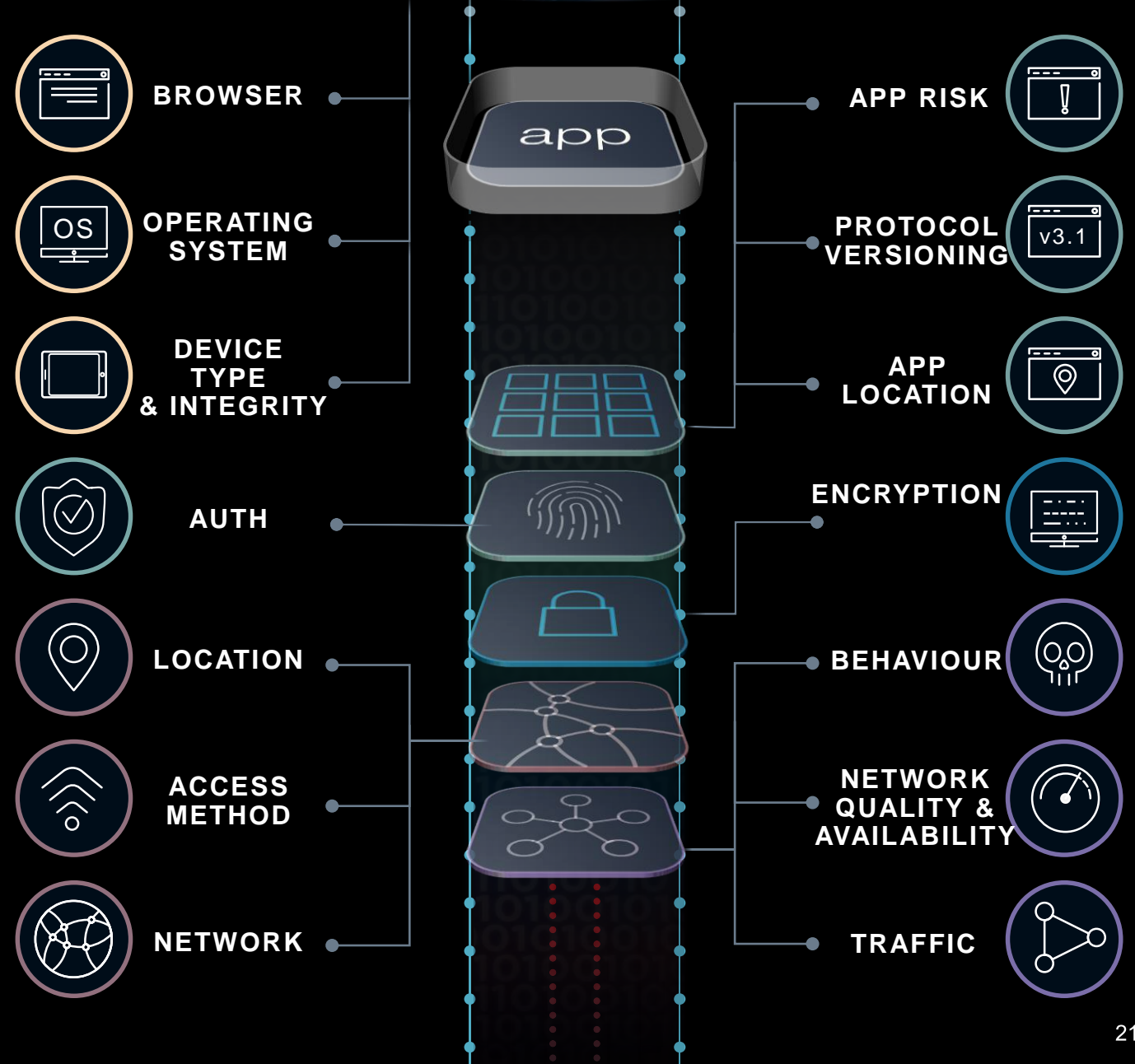


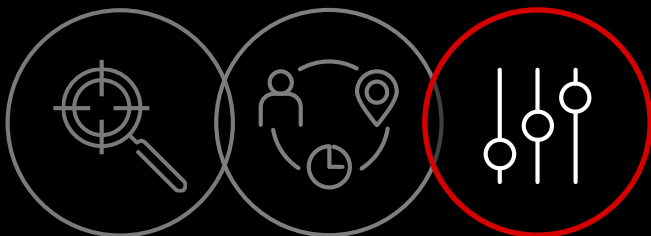


CONTEXT

Understand

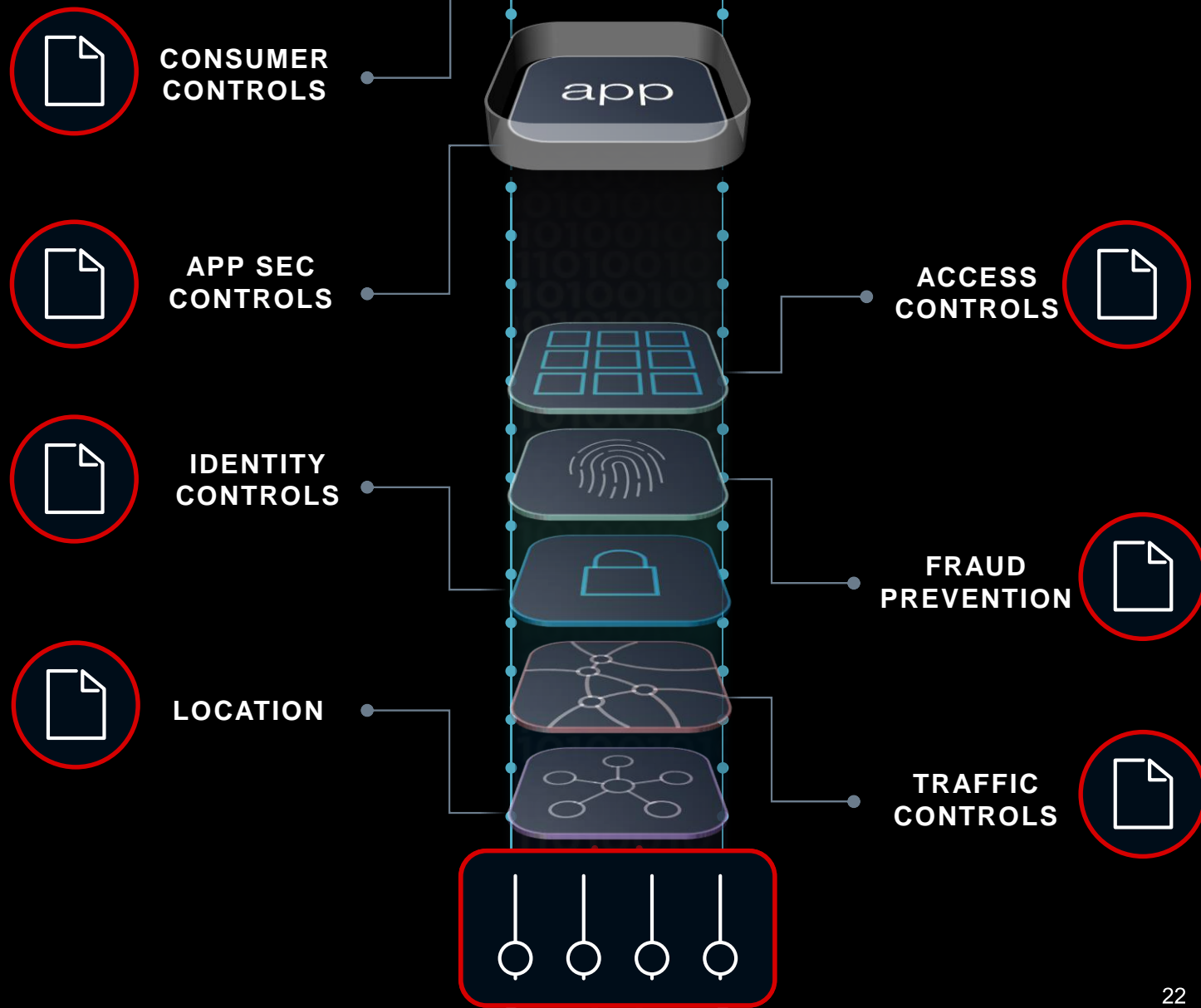
- who, how, where, when...
- usage, behaviour, abnormal ...
- risk, protocol, app...

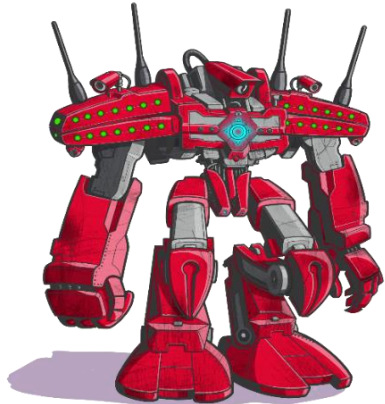




CONTROL

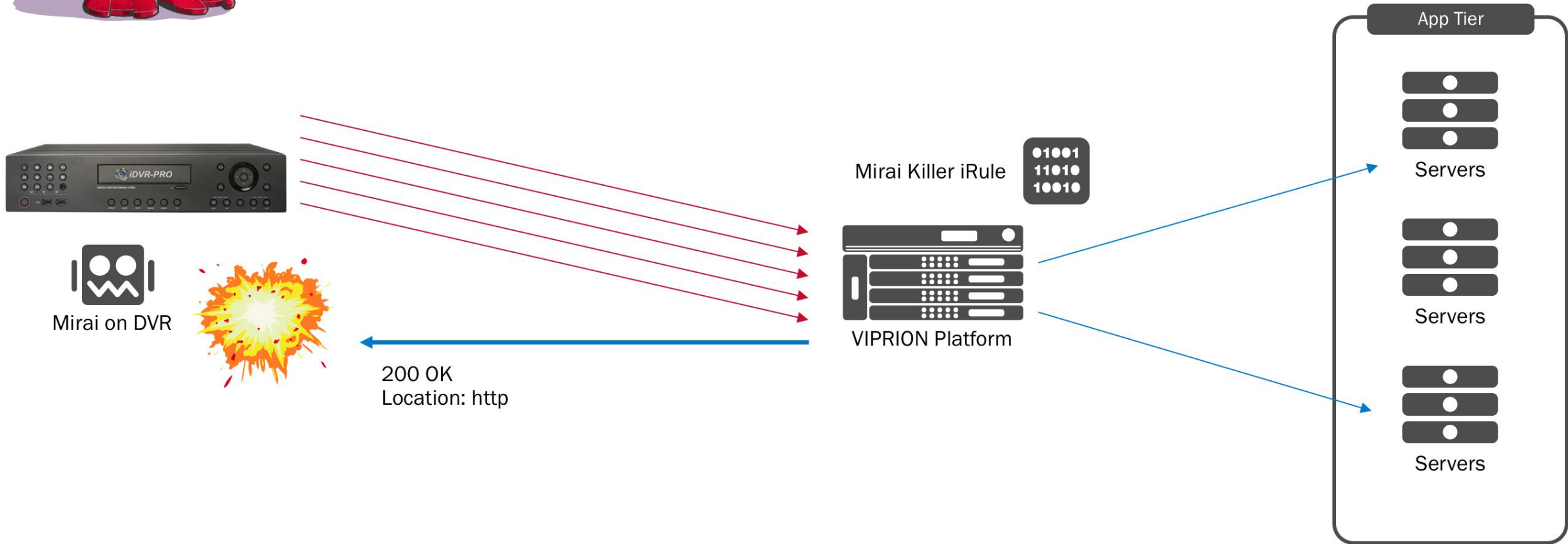
Asses risk and make informed decisions about security controls to protect your apps and data while automating provisioning





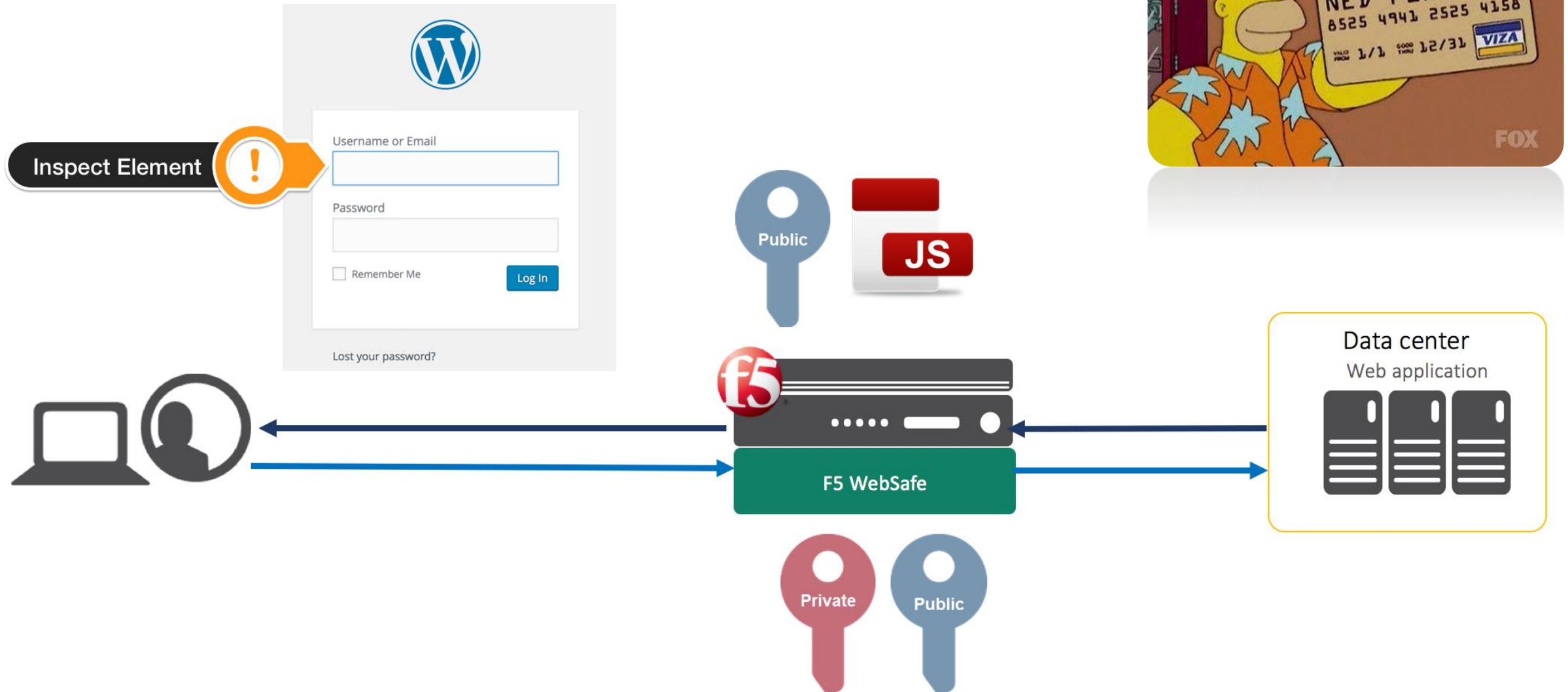
ARTICLE

Mirai Strikeback - an iRule to kill IoT Bot Processes from your F5



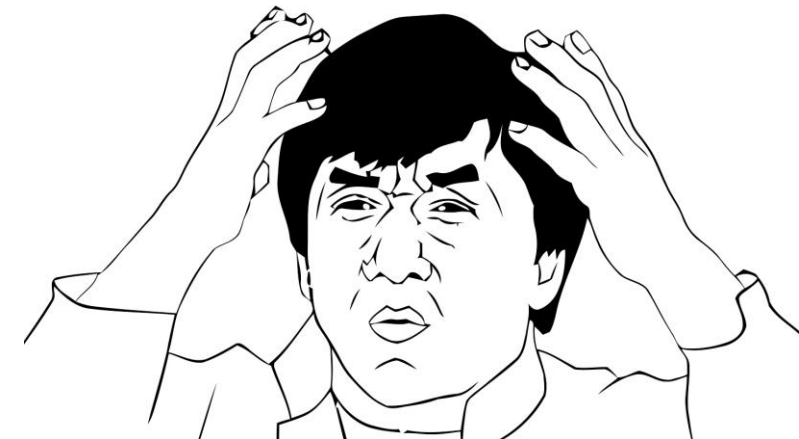


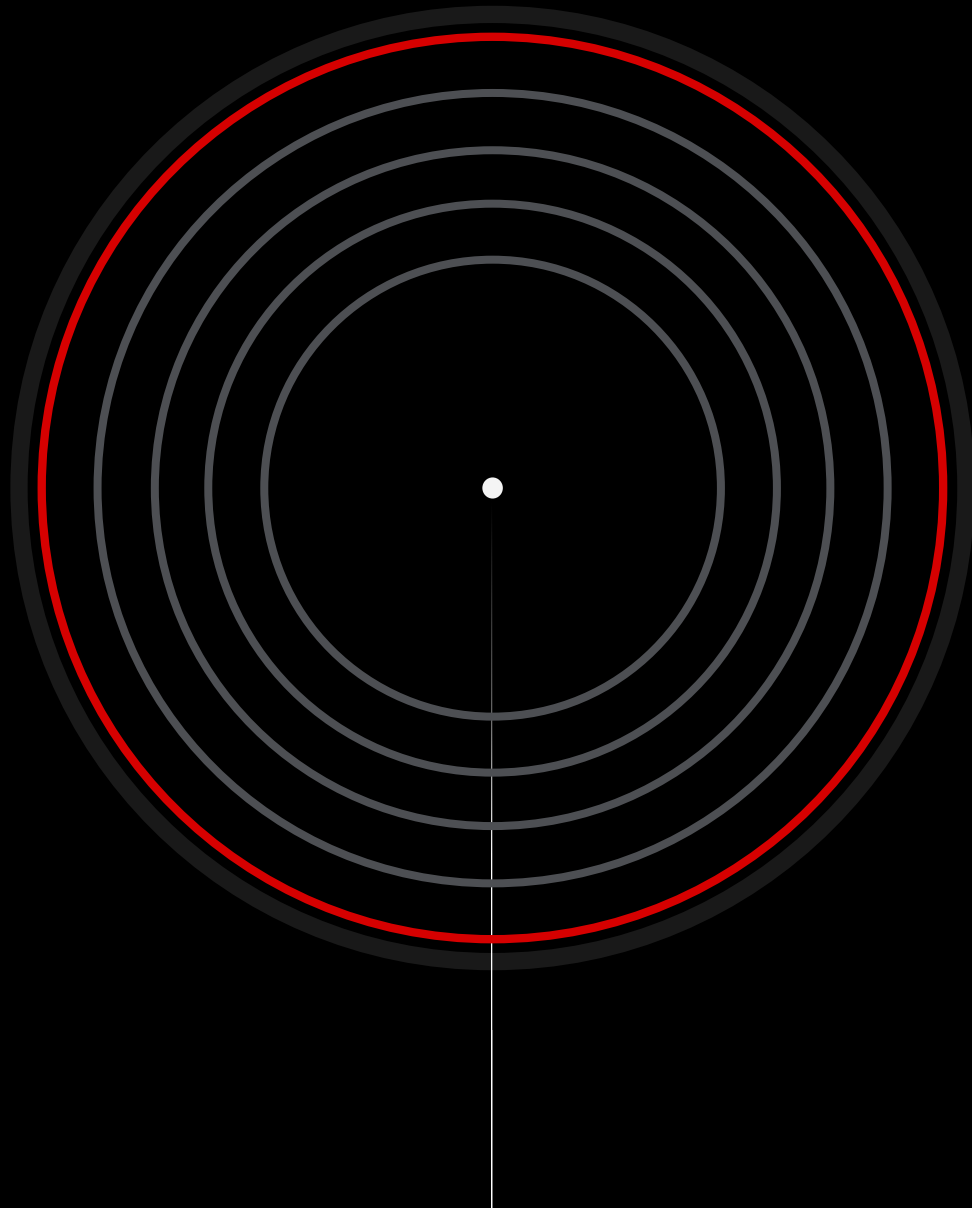
Clientless Fraud Protection





**No thanks,
we're moving
to the...**





Multi-Cloud



On-prem



Private
Cloud



Public
Cloud



Co-located



SaaS



Containers

artiom@.com

SOLUTIONS FOR AN APPLICATION WORLD