



Qualys Platform: A 25 Year Journey of Relentless Innovation

Shailesh Athalye

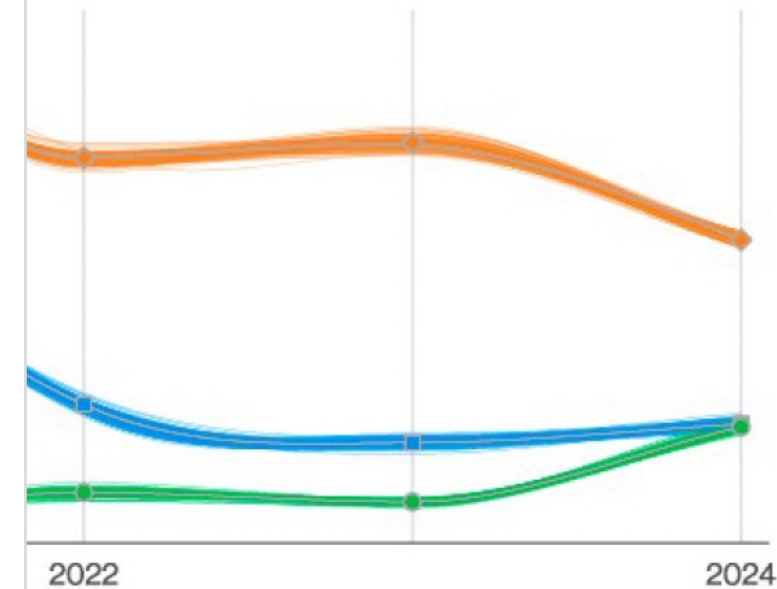
Qualys Product Management

Operationalize

The Risk Operations Center (ROC)

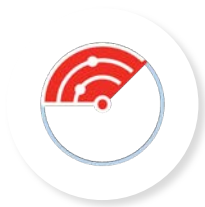


What are the most the largest Risk factors ons Center



Most growing vector of attacks
in 2 years - **Vulnerabilities**

Fastest, Most Comprehensive and Accurate in Vulnerability Detection



103K

CVE-based
detections



16K

Detections for
Open-source



13K

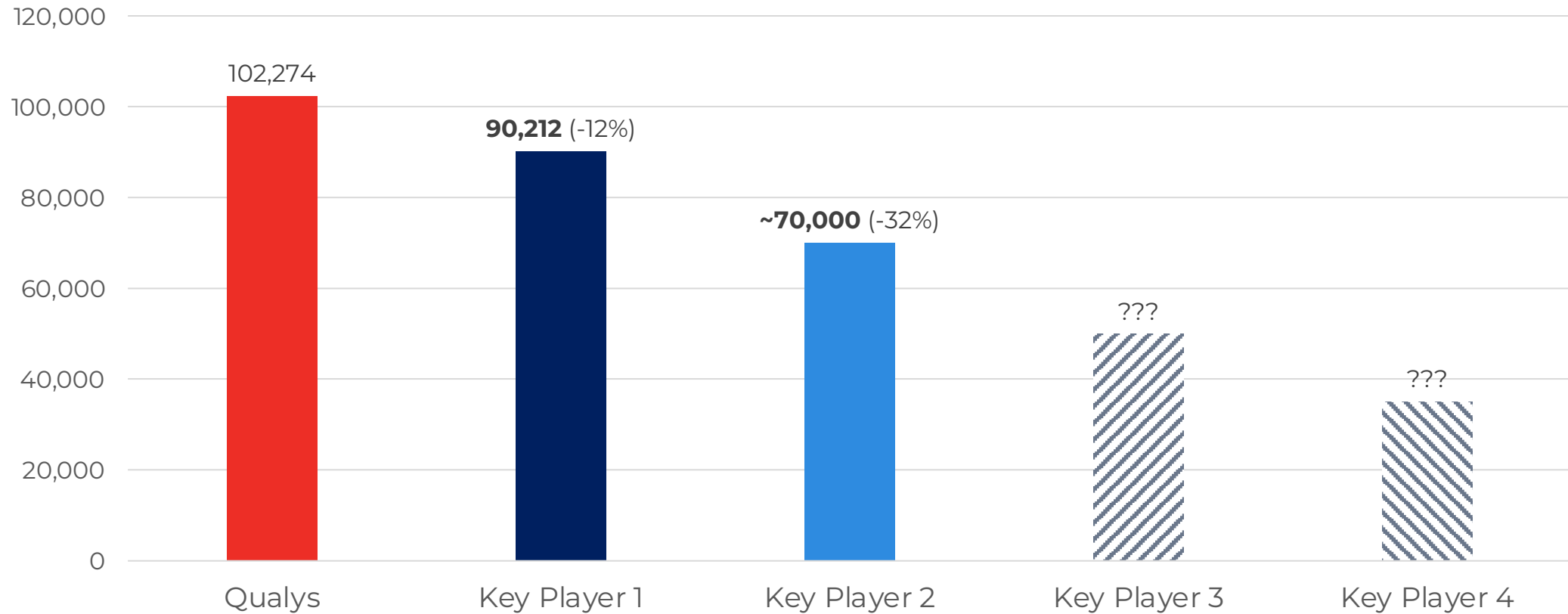
Signatures
w/active probing



16 hrs

Response Time -
Zero days

Industry Leading Coverage for CVEs



Bringing Multi-Sensor Approach for Detections

22%

of CVEs applicable
for exploited
network and
perimeter devices

70%

of Risky vulns
exploitable remotely

78%

detected locally

Remote + Local
dynamic environment



Agents

Remote Scanners



CAPS



1172/1187

99%

Coverage
for CISA KEVs

Is Cyber Risk Problem Really a Cyber Risk Problem?



Geoff Belknap (He/Him) • 1st

Microsoft | Former LinkedIn,
Slack, Palantir

[View my blog](#)

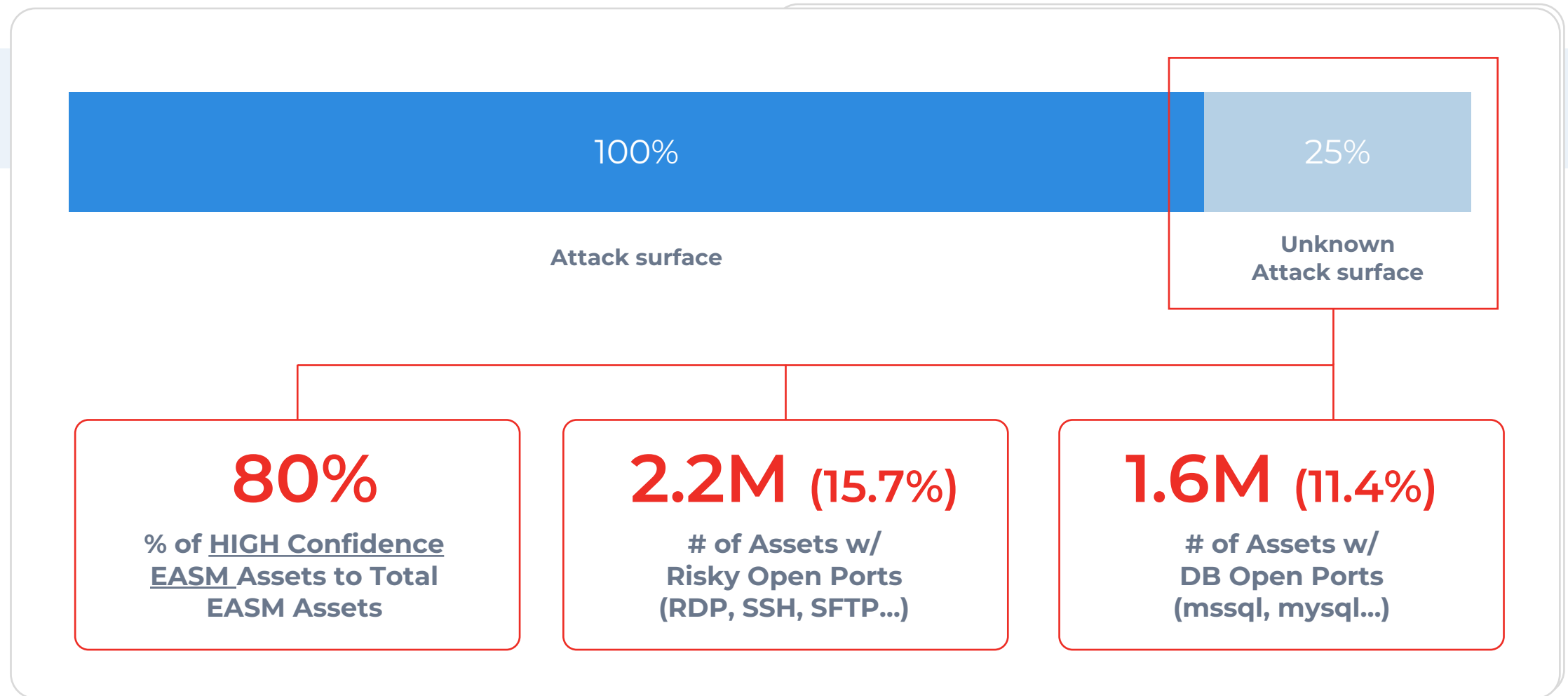
1w • 🌐

Today's thought: The hardest problems in Security aren't really "Security" problems.

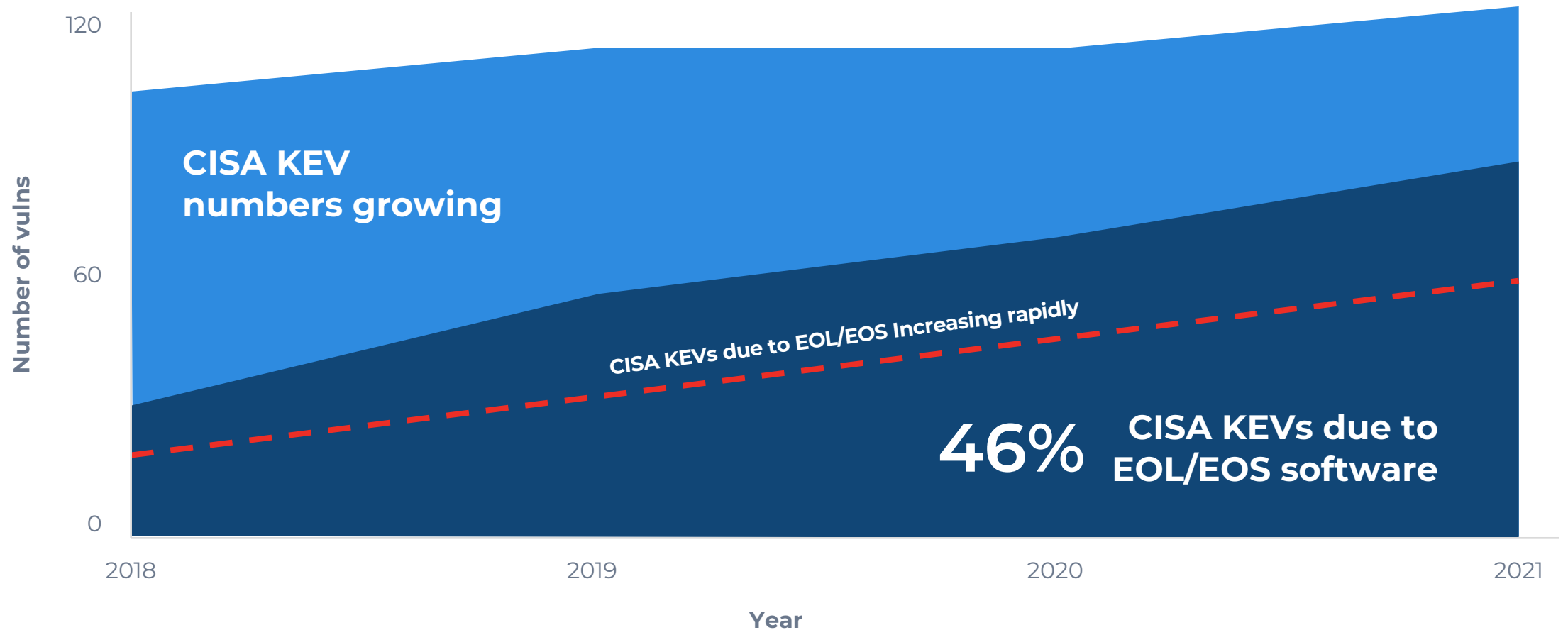
- Asset Inventory
- Patching Automation
- Config Management
- Device Administration

[#security](#) [#Cybersecurity](#) [#ITSecurity](#)
[#AssetManagement](#) [#Automation](#)
[#TechManagement](#) [#infosec](#)

Known Inventory & Attack Surface != Risk Surface



EOL/EOS Increasing the Risk of Vulnerabilities...



Increased Risk Due to Unnecessary Software

5M/26M

**Servers across
Environments**

20%

Servers w/highly
vulnerable desktop
software

22

**Vulnerable
Desktop
Software**

4.7K

Unique High/Critical
Vulnerabilities (CVE)

~14

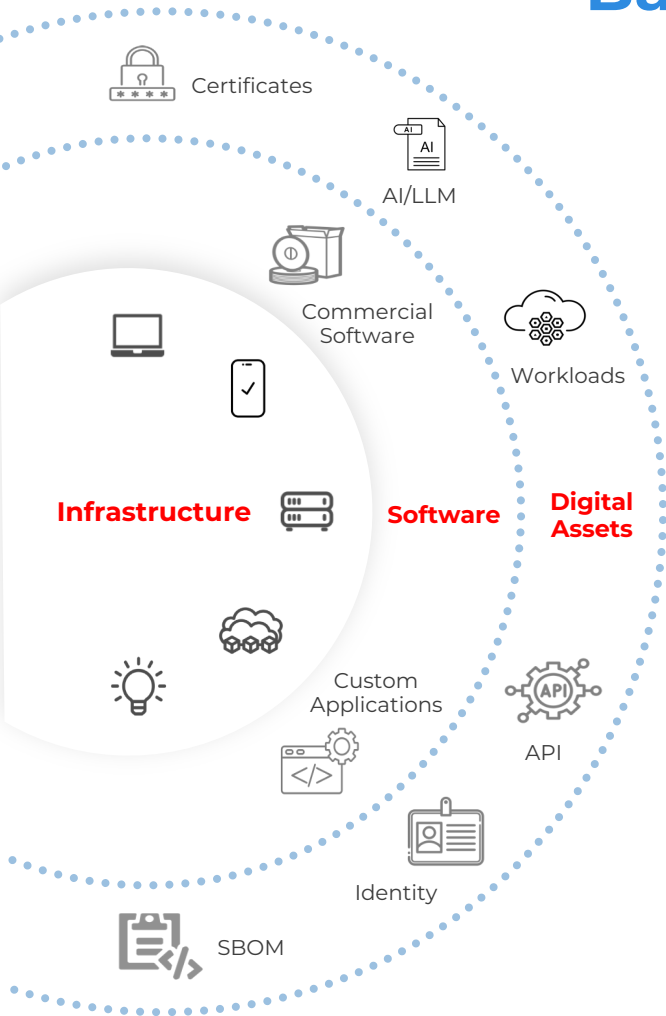
**Critical
Vulnerabilities per
Asset that can be
avoided!**

CyberSecurity Asset Management

| Product | Install Count | Risky Vulns | Total Vulns | Total EOS | % of Unpatchable Vulns (EOS) |
|-------------------|---------------|-------------|----------------|-----------|------------------------------|
| Internet Explorer | 1,894,087 | 1,636 | 3,098,726,332 | 81,514 | 4% |
| Chrome | 1,368,291 | 3,518 | 4,813,647,738 | 679,551 | 50% |
| Firefox | 606,945 | 2,667 | 1,618,722,315 | 354,512 | 58% |
| Acrobat Reader DC | 487,712 | 1,715 | 836,426,080 | 256,386 | 53% |
| Office | 439,730 | 829 | 364,536,170 | 130,198 | 30% |
| Acrobat Reader | 196,300 | 1,037 | 203,563,100 | 80,702 | 41% |
| Flash Player | 68,573 | 1,084 | 74,333,132 | 67,586 | 99% |
| WinRAR | 61,592 | 23 | 1,416,616 | 12,713 | 21% |
| Zoom | 57,181 | 69 | 3,945,489 | 24,523 | 43% |
| VLC media player | 49,374 | 114 | 5,628,636 | 55 | 0% |
| Thunderbird | 17,799 | 1,139 | 20,273,061 | 5,613 | 32% |
| Foxit Reader | 14,195 | 376 | 5,337,320 | 1,619 | 11% |
| Foxit PDF Reader | 6,299 | 231 | 1,455,069 | - | 0% |
| QuickTime | 3,523 | 246 | 866,658 | 2,884 | 82% |
| Safari | 504 | 1,455 | 733,320 | 503 | 100% |
| iTunes | 256 | 920 | 235,520 | 141 | 55% |
| Photoshop | 138 | 80 | 11,040 | 132 | 96% |
| Illustrator | 48 | 120 | 5,760 | 46 | 96% |
| RealPlayer | 26 | 170 | 4,420 | 4 | 15% |
| Fusion | 1 | 129 | 129 | - | 0% |
| Grand Total | 5,272,574 | 17,558 | 11,049,867,905 | 1,698,682 | 32% |

CyberSecurity Asset Management

Base for your Risk Operations Center (ROC)



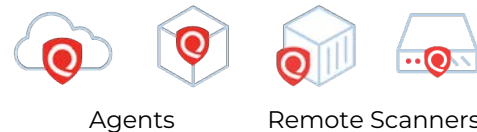
Cloud Connectors



Key IT Infra Connectors



Active Sensors



Passive Sensors



Cyber Inventory with
business and risk context

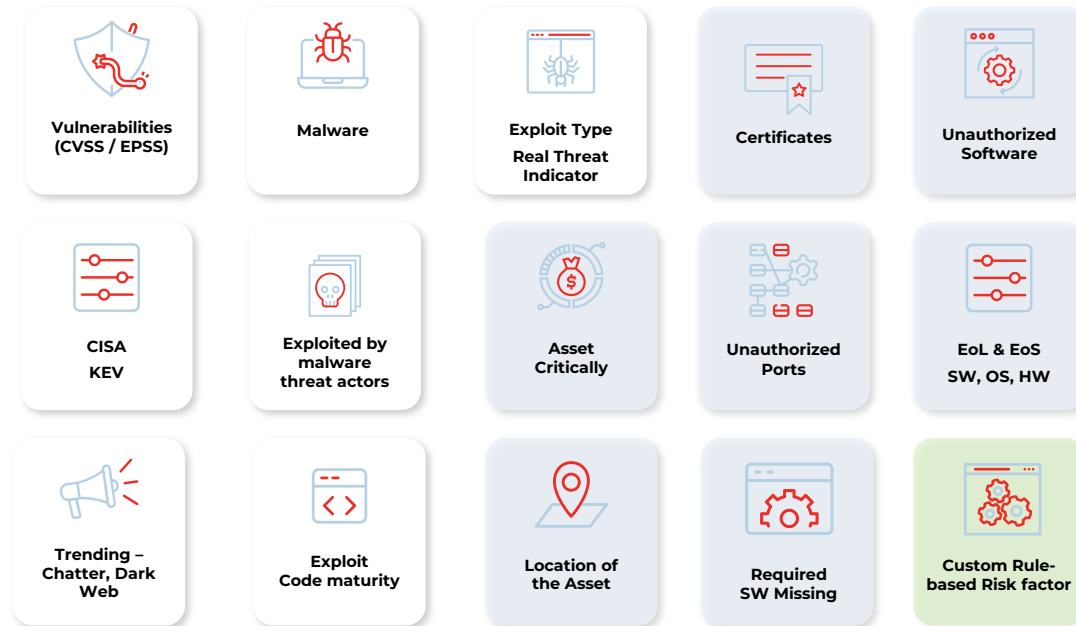
Internal and External
Attack Surface

Integrated w/Risk
Management Program

DE-RISK YOUR BUSINESS



Enhancements to TruRisk™ 2.0



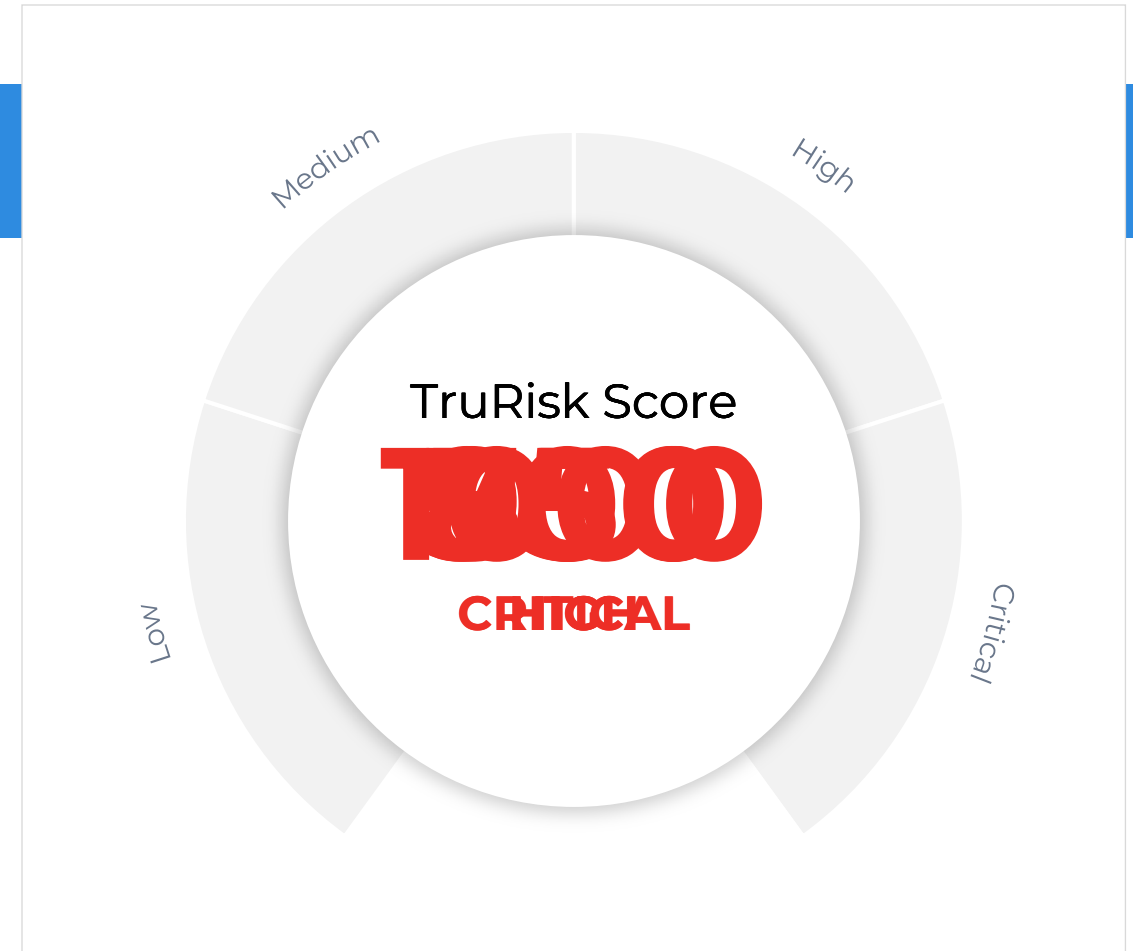
DE-RISK YOUR BUSINESS



TruRisk... By Correlating Security Data

Contributing Factors

- External facing
- Ransomware vulnerabilities
- RDP misconfiguration
- Business-critical asset
- Not running Anti-virus software



Prioritizing the Cyber Risk Needing Attention!

SSH Toxic Combination

| | | | | |
|------------------|-------------------|---------------------------|----------------------|--|
| 100% | 31% | 10% | 4% | 1% |
| Total IFA assets | assets with VULNS | assets with SSH Port Open | Assets with CISA KEV | assets with SSH open port and CISA KEV |

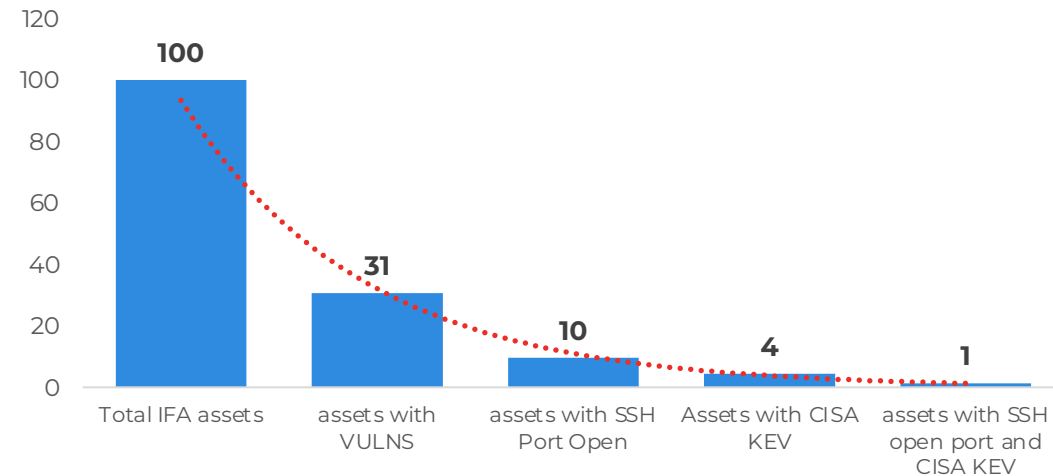
TruRisk Score
500

TruRisk Score
750

TruRisk Score
850

TruRisk Score
950

TruRisk Score
1000



RDP Toxic Combination

| | | | | |
|------------------|-------------------|---------------------------|----------------------|--|
| 100% | 31% | 7% | 4% | 2% |
| Total IFA assets | assets with VULNS | Assets with RDP Port Open | Assets with CISA KEV | assets with RDP open port and CISA KEV |

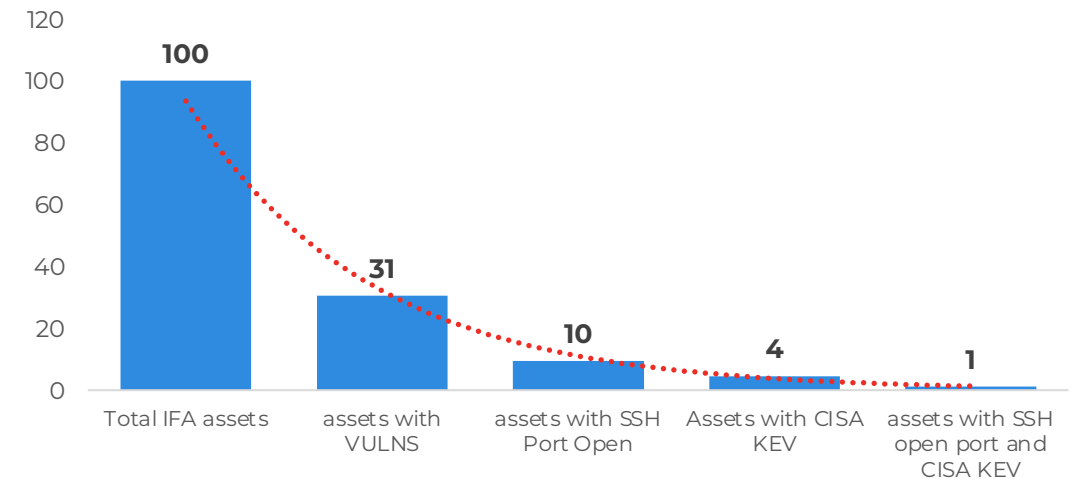
TruRisk Score
500

TruRisk Score
750

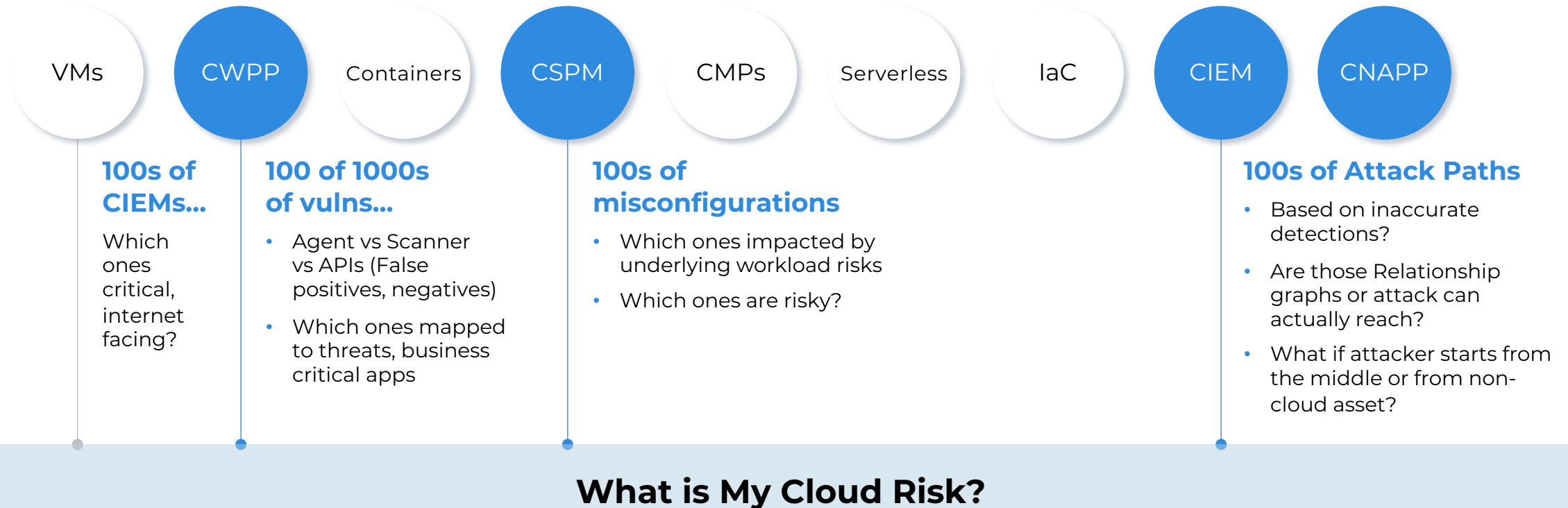
TruRisk Score
850

TruRisk Score
950

TruRisk Score
1000



How Many Tools = CNAPP?



What is My Cloud Risk?

Cloud Accounts

54

Overall Cloud Resources

2352

Vulnerable Public Instances

182  +10 (0.10%)
High Risk

Critical Misconfigurations

251  +72 (40%)
High Risk

Threats

4  +1 (33%)
Very High Risk

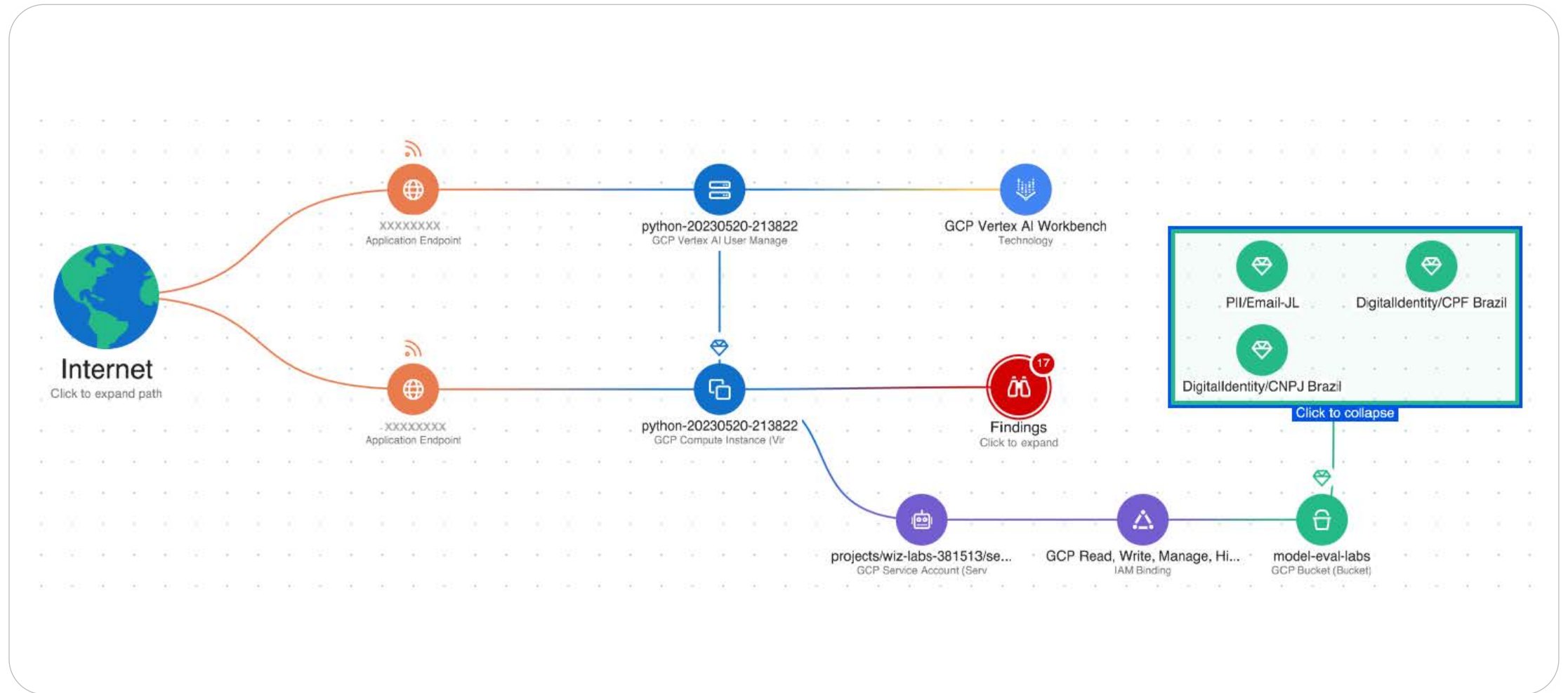
Perimeter Vulns

92

Container Images with Malware

128

Attacks Paths Show Relationship Data..Not Risk!



Extending the Power of VMDR TruRisk for Cloud

TruRisk™ Score



Cloud Security Posture Management (CPSM)



External Facing Assets
CISA-known Exploitable Vulnerability



Suspicious Connection
Cloud Detection and Response (CDR)

68
External Facing Assets

14%

Introducing Qualys TotalAI

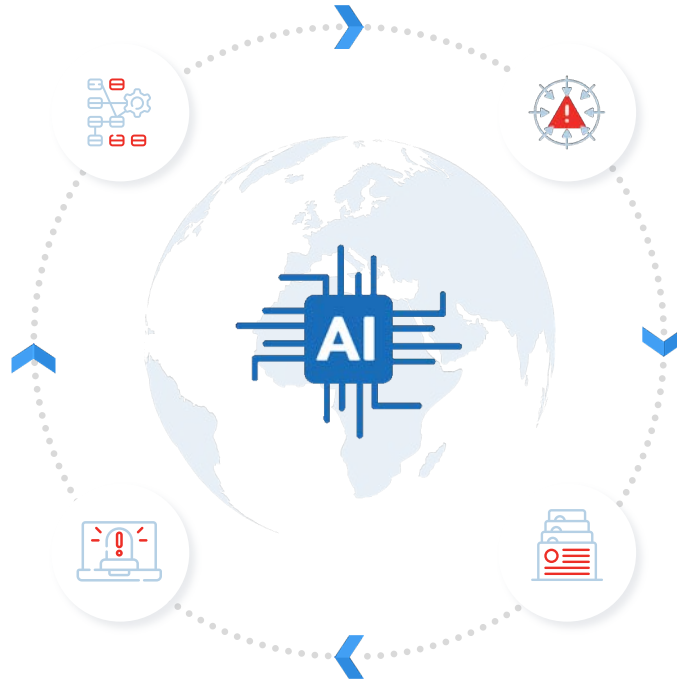
Single platform for a unified view of LLM risk, AI-Workloads, and AI-vulnerabilities

Know where AI is running

- Discover all your AI-Workloads
- Get inventory of AI packages, AI-software and AI-hardware (GPUs)

Know the risk of Model and Data Thefts

- Scan LLM and Application endpoints
- Prompt your LLMs for OWASP TOP 10 to ensure they are not leaking data, showing bias, or can be jailbreak.



Know the risk of AI Infra vulns

- 1000+ AI-specific vuln detections correlated with threats for TruRisk
- Patch vuln risks to harden Infra from model and data theft

Be Audit-ready for using AI

- Prevent fines due to compliance violations (e.g., GDPR, PCI)
- LLM security report for management

Leverages existing Qualys Agent and Scanner

DE-RISK YOUR BUSINESS

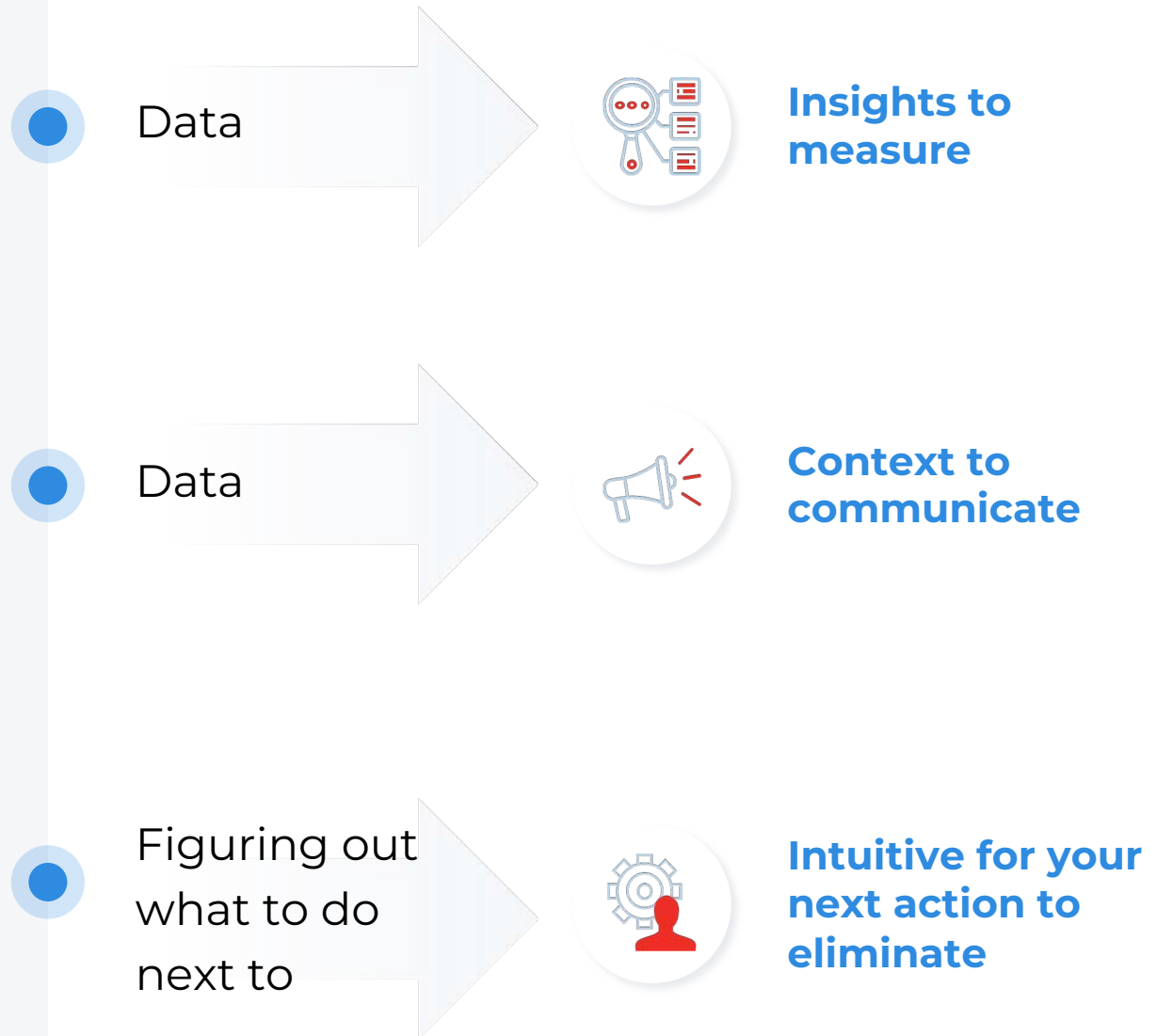


Transformative Evolution of Qualys Console



Transformative Evolution of Qualys Console

Measure, Communicate
and Eliminate Risk Faster



Problem in VM is Remediation

~4

Avg number of Open CISA KEVs on Internet facing asset

1 in 4

Vulns used in top ransomware attacks of last 3 years

NCSC Guidelines on Remediation

14 Days

Internal

5 Days

External

5 Days

External

Avg MTTR for External assets

64 Days

Healthcare/Pharma

93 Days

Banking/Financial

100+ Days

Hospitality

~47 Days

Avg MTTR for External assets

Know Your Low-Hanging Risk Reduction Fruits?



Internet-Facing Assets

33%

Residual Old MSFT Patch Tuesday Patches not deployed

40%

Vulns due to 3rd party software not patched

DE-RISK YOUR BUSINESS



Impact of Qualys Patch Management

40%

Faster MTTR than traditional patch

5% customers in 0-5 days MTTR

9% customers in 6-10 days

32% customers in 11 to 17 days

60%

Reduction in vulns on internet-facing assets within

Prevented 8 out of Top 10

Ransomware Attacks, including:

✓ Conti

✓ Lockbit

✓ Cl0p

✓ Petya

✓ REvil

78M

Patches Deployed in last 12 months

Impact of Qualys Patch Management

01

Maps right Patches to Risky Vulns & Assets

02

Provides Plan to reduce Risk

03

Patches Win, Mac, Linux and 200+ 3rd party apps, no need of VPN

04

RBAC, ITSM Integrated

40%

Faster MTTR than traditional patch

5% customers in 0-5 days MTTR

9% customers in 6-10 days

32% customers in 11 to 17 days

60%

Reduction in vulns on internet-facing assets within

70M

Patches Deployed in last 12 months

Prevented 8 out of Top 10 Ransomware Attacks, including:

- ✓ Conti
- ✓ Lockbit
- ✓ Cl0p
- ✓ Petya
- ✓ REvil

Risk Reduction Challenge

Patch OR Not Patch

Patch

Not Patch

Which Patches to reduce most risk/most vuln



Asset too critical for downtime

Which ones to Automate vs On-demand



No Patch, Zero-day, Patch needs testing



Reduce Risk



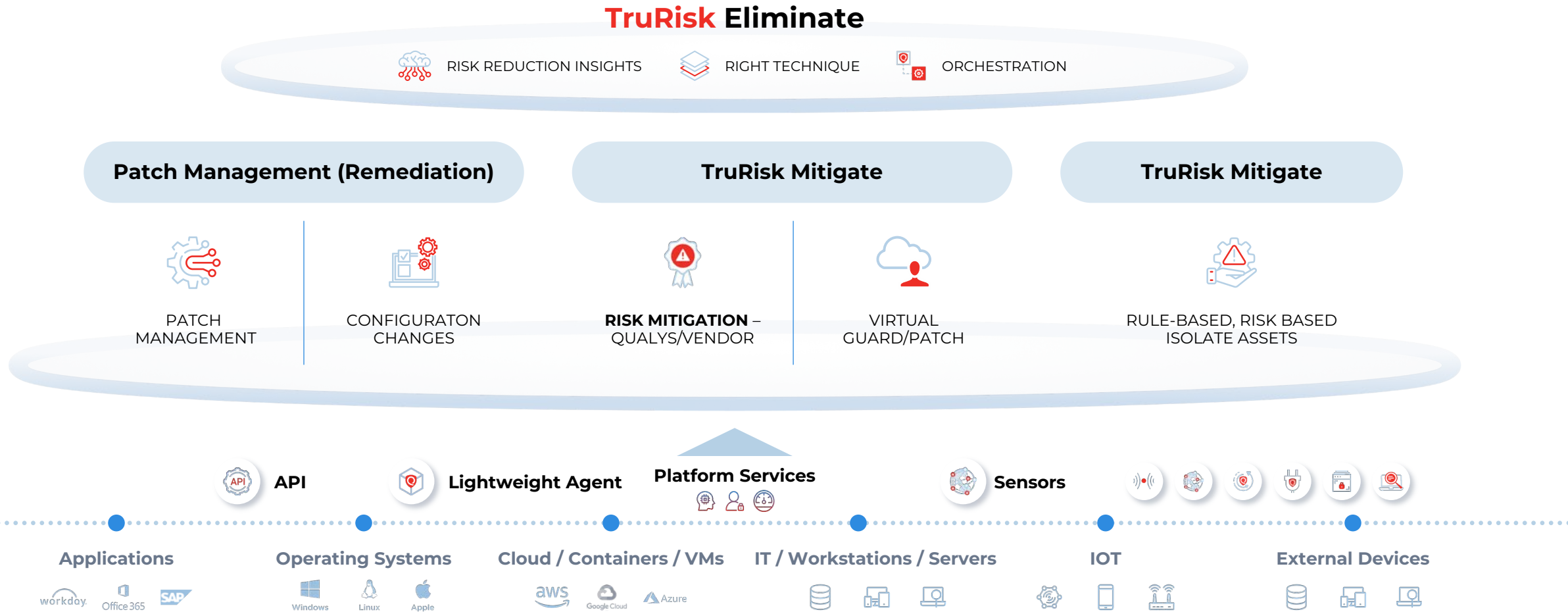
Reduce MTTR



Continue Business Operations

TruRisk Eliminate

Reduce Risk... with Patch or Without



DE-RISK YOUR BUSINESS



Eliminate Your Risk... Don't Just Measure It!

TruRisk Eliminate

Address All Types
Of Vulnerabilities
with or without a
Patch



TruRisk Patch

- Test and deploy patches to fix vulns
- Fully automate patch deployment based on risk
- Windows, Mac, Linux OS and 3rd party app support



TruRisk Mitigate

- Remediate vulns that don't have a patch
- Mitigate vulns that cannot be patched due to operational risk
- Address Zero Day vulns before the patch is available



TruRisk Isolate

- Isolate device to ensure vulns cannot be exploited
- Allow exceptions to ensure device can be patched and managed

Audit-Ready, Continuously Compliant

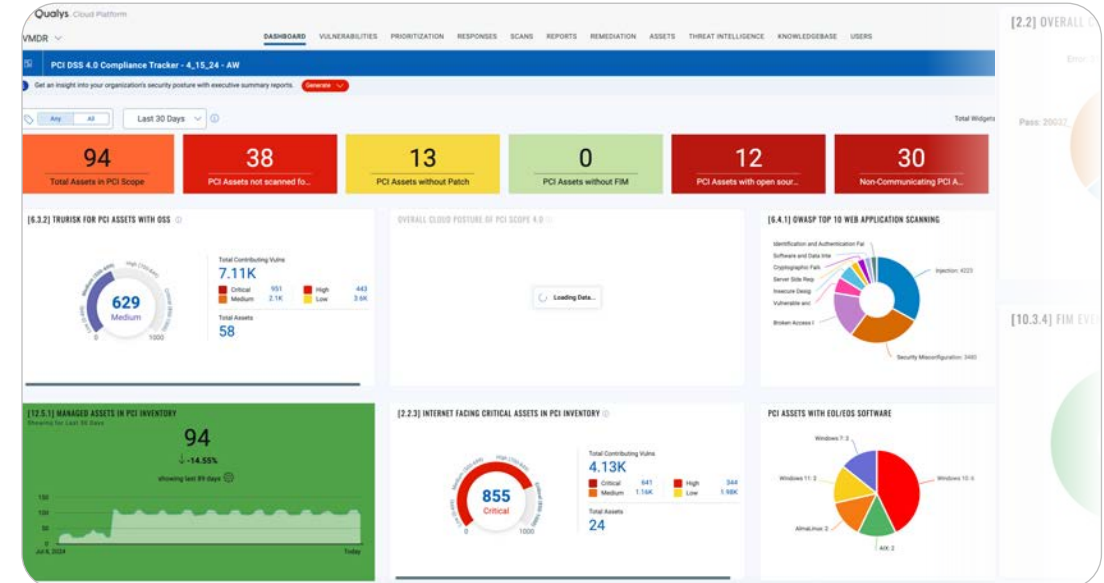
From Mandates to Requirements to Assessment to Reporting to Remediation

Regulations



...and many more!

- 01 Authenticated Vuln scans
Auto-discover compliance
scope for assessment
- 02 File Integrity & access monitoring
- 03 Assess, Prioritize and Remediate
Risk based assessment
Misconfigurations
- 04 Cloud & container environment
- 05 Noise-canceling FIM for
compliance & risks of changes
- 06 Bespoke S/W and risk



API



Lightweight Agent

Platform Services



Sensors



Applications



Operating Systems



Cloud / Containers / VMs



IT / Workstations / Servers



IOT



External Devices



DE-RISK YOUR BUSINESS



ROC-Ready from Day 1

With Asset Inventory to TruRisk
Prioritization to Risk Reduction...

Created through 25
years of Innovation

RESPONSE

Ticketing

Patching

Mitigate

ROC

AI-driven Collection,
Normalization &
Orchestration

ETM

RISK ORCHESTRATION

Customized Risk Scoring, Prioritizing,
Risk Workflows, Reporting

AGGREGATED FINDINGS

Normalization, Correlation, Enrichment

UNIFIED ASSET INVENTORY

Consolidation, Contextualization

Threat Intelligence
(Qualys
Built-in,
Custom)

Business Context
(CMBD,
Custom Data
Sources)

RISK IDENTIFICATION

Qualys Sources

VULNERABILITY SCANNING

VMDR CSPM IaC

WAS CWPP AISPM

COMPLIANCE

PC FIM SCA

RUNTIME SECURITY

KCS EDR XDR

CWPP CDR

Non-Qualys Connectors

Vulnerability Management

RAPID7

tenable

Nessus

Microsoft Defender

Cloud Security

Amazon Inspector

Microsoft Defender

Google Cloud

WIZ

PRISMA CLOUD

Endpoint Security

crowdstrike

SentinelOne

Symantec

TANILUM

cybereason

Application Security

VERACODE

snyk

Fortify

Checkmarx

Burp Suite

Asset Management

bmc helix

ivanti

servicenow

flexera

DE-RISK YOUR BUSINESS



Endpoint Security

Proactive and Reactive Detection & Response

25%

02 Avg % of External **UNKNOWN** Asset to Total Asset

Reactive Endpoint Security

Defect to create exposure for risk

Attack surface and/or context to prioritize and respond of attacks

Close loop intelligent risk remediation to stop repeating attacks

70% Reported that attack started from unknown, external asset

| Name | Criticality | TrifRisk™ Score | Operating System | Last Logged In | Last Scanned | Sources | Tags |
|---|-------------|-----------------|--|--|------------------|----------------------------------|----------------------------------|
| WIN7-30-114 10.11.103.167 | 3 | 532 | Microsoft Windows 7 Ultimate 6.1 SP1 Build 7601.24511 32-Bit | Administrator VM: 2 hours ago PC: 16 hours ago | PC: 16 hours ago | Last Checked In 9 minutes ago | EOL OS 37 more |
| win11carfim1 10.115.140.196 | 5 | 857 | Microsoft Windows 11 Pro 21H2 Build 22000.2538 64-Bit | Administrator VM: an hour ago PC: an hour ago | PC: an hour ago | Last Checked In an hour ago | Type: Client 34 more |
| vw10eltsx64.mspt.rdlab... 10.11.78.30 | 2 | 344 | Microsoft Windows 10 Enterprise 2015 LTSB 1507 Build 10240 64-Bit | Administrator VM: 5 hours ago PC: 2 days ago | PC: 2 days ago | | QID 45361 HashHost... 40 more |
| win-gf1q36ghd3 10.11.77.175 | 3 | 522 | Microsoft Windows Server 2019 Standard 1809 Build 17763.1999 64-Bit | Administrator VM: 5 hours ago PC: 2 days ago | PC: 2 days ago | | QID 378332 CVE-20... 37 more |
| vsw2015tsbu 10.11.77.70 | 5 | 870 | Microsoft Windows 10 Enterprise LTSB 2015 1507 Build 10240.16384 64-Bit | Administrator VM: 6 hours ago PC: 2 days ago | PC: 2 days ago | | Type: Client 38 more |
| vsw10bt2004p 10.11.77.141 | 2 | 347 | Microsoft Windows 10 Enterprise 2004 Build 19041. | Administrator VM: 6 hours ago PC: 2 days ago | PC: 2 days ago | | Authentication Su... 38 more |
| 91935 SMB Client and Server Remote Code Execution Vulnerability | | | | | | | CVE-2022-35804 97 |



Do you Have What it Takes to Earn the Title of Agent TruRisk?

Risk Busters Contest

Live Capture The Flag (CTF)

Wednesday, October 9,
5:30 PM to 6:30 PM
Silver Pearl Ballroom

Winners Prize Ceremony

Thursday October 10, **12:35 PM**
Silver Pearl Ballroom
(Must Be Present to Win)



ADD TO YOUR
CALENDAR



ENTER TO

WIN

PRIZES

