

Remediation & Beyond: Alternative Mitigation Paths for Reducing Operational Risk

Eran Livne Sr Director Product Management



Enterprise TruRisk[™] Platform

Measure, Communicate, and eliminate cyber risk.

De-risk your business.



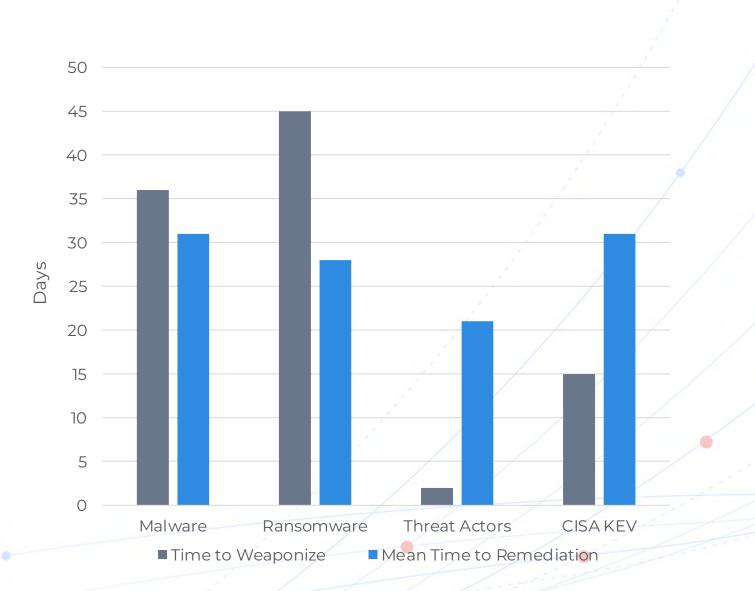
Weaponized Vulns



19.5 Time to Weaponize (Days)

30.6 Mean Time to Remediate (Days)

57.7% Remediated Vulnerabilities







Top Detected Weaponized Vulnerabilities

# of detections	CVE	Product	RTI
1	CVE-2022-2856	Google Chrome	Weaponized, CISA
2	CVE-2022-41049	MS Windows	Weaponized, CISA
3	CVE-2022-4135	Google Chrome	CISA
4	CVE-2022-2294	Google Chrome	Weaponized, CISA, APT
5	CVE-2022-3075	Google Chrome	Weaponized, CISA
6	CVE-2022-30170	MS Windows	Weaponized, APT
7	CVE-2022-24521	MS Windows	Weaponized, CISA, APT, Ransomware, Malware
8	CVE-2022-26904	MS Windows	Weaponized, CISA
9	CVE-2022-37969	MS Windows	Weaponized, CISA
10	CVE-2022-1096	Google Chrome	Weaponized, CISA







TruRisk Eliminate



Patch Management (Remediation)

- Qualys Patch Management
- Jeff Huffman, Senior Director, IT Security and Administration - New Orleans Saints
- Panel: Haydur Agha, VP, Global InfoSec – Sony Music
 Nick Shimmen, Technical Consultant, CISO group
 Associated British Food

Mitigation

 \checkmark

Announcing Mitigation



How Qualys Patch Management helps Organizations Eliminate Risk?

(without replacing IT patching tools)



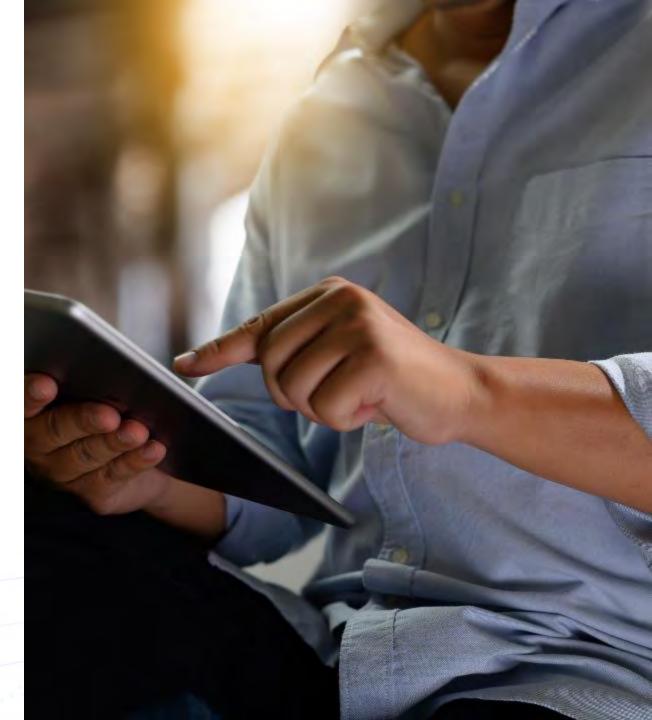




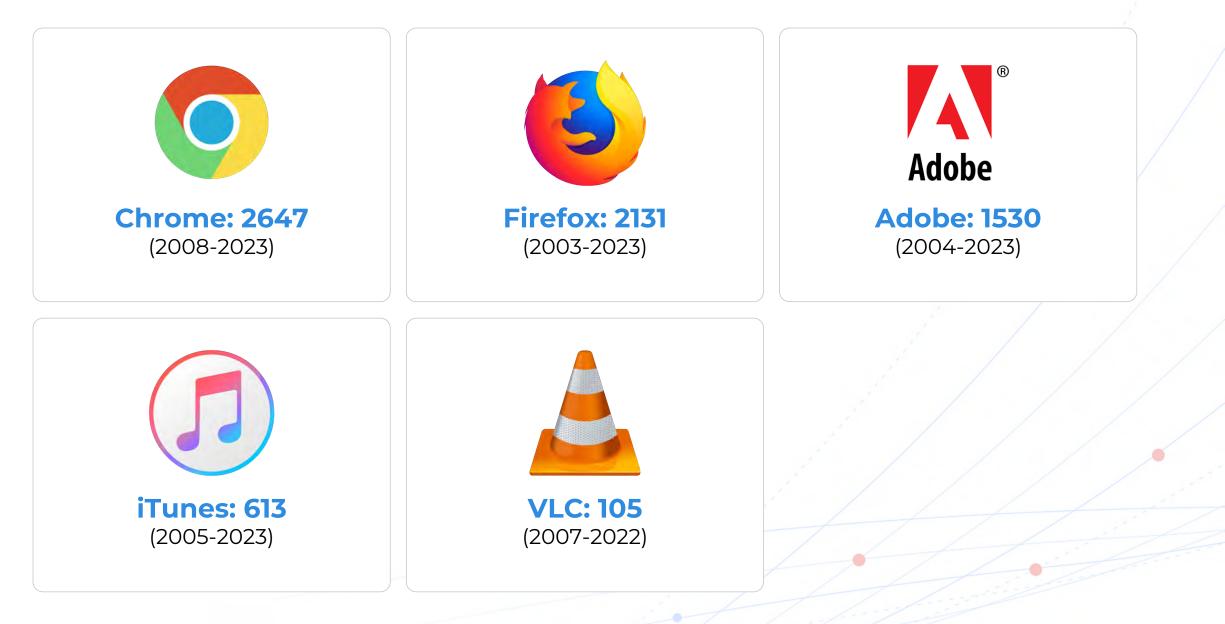




Smart Automation for your Low Hanging Fruits









Smart Automation



Automate Low Hanging Fruits: Make sure products that introduce low risk of breaking when patched are always up to date



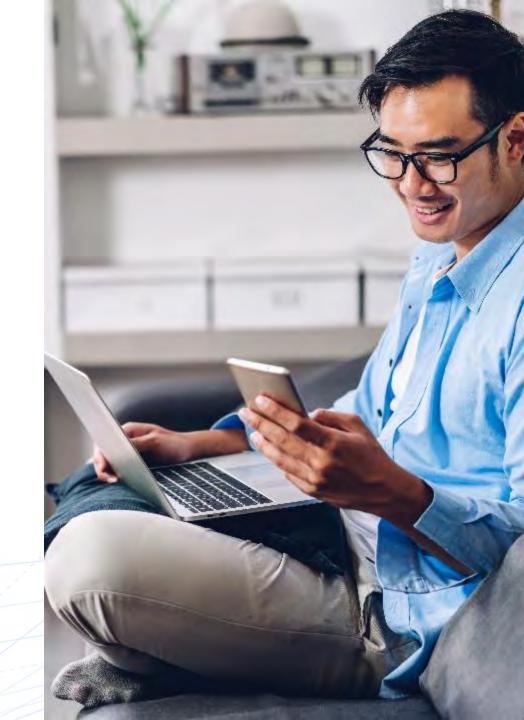
Focus on High-Risk high Reward Products: identify products that introduce the most risk to your environment and focus on those first



Automate based on Risk where Possible:

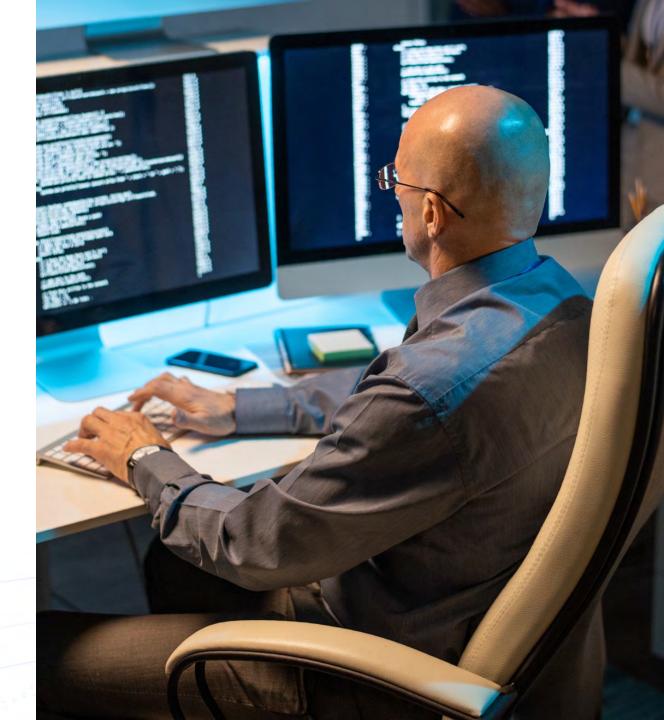
Automatically patch assets if a ransomware related vuln is detected, a CISA related one etc.







Simplify Remediation for the Measured Risk **Smart Automation**





Vulnerability **Not** Equals a Patch

CVE-2021-34527 "PrintNightmare"

"In addition to installing the updates, in order to secure your system, you must confirm registry settings are set to 0"

Remediation = RegKey Change + Latest Patch



Smart Automation

C

Let the Product do the research for you: Find the right patches and configuration changes required to remediate vulnerabilities



Test, Approve, Deploy: fully integrated with current IT best practices & tools



Communicate Results: view results in your risk and vulnerabilities dashboards.





Automation is Key

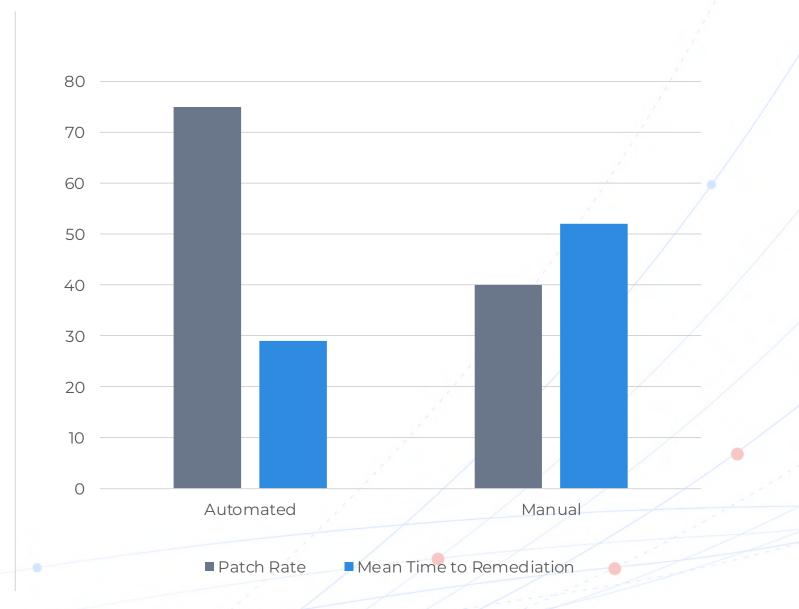


89.5% Improvement in Patching Rates



43.1%

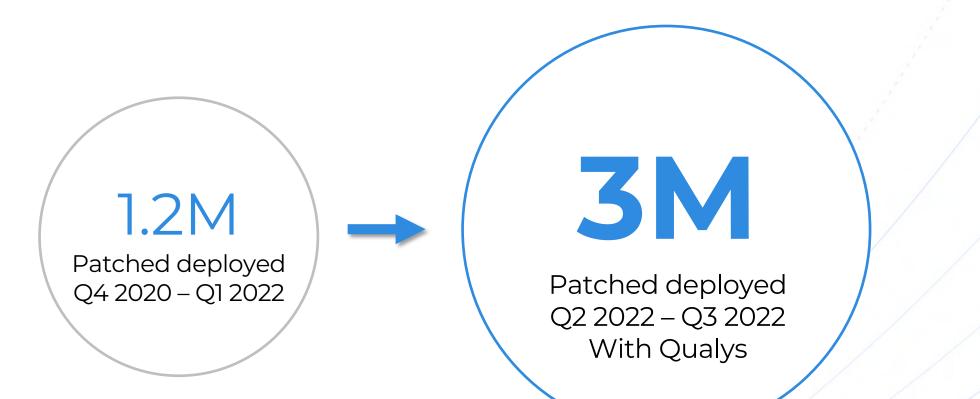
Improvement in MTTR Speed





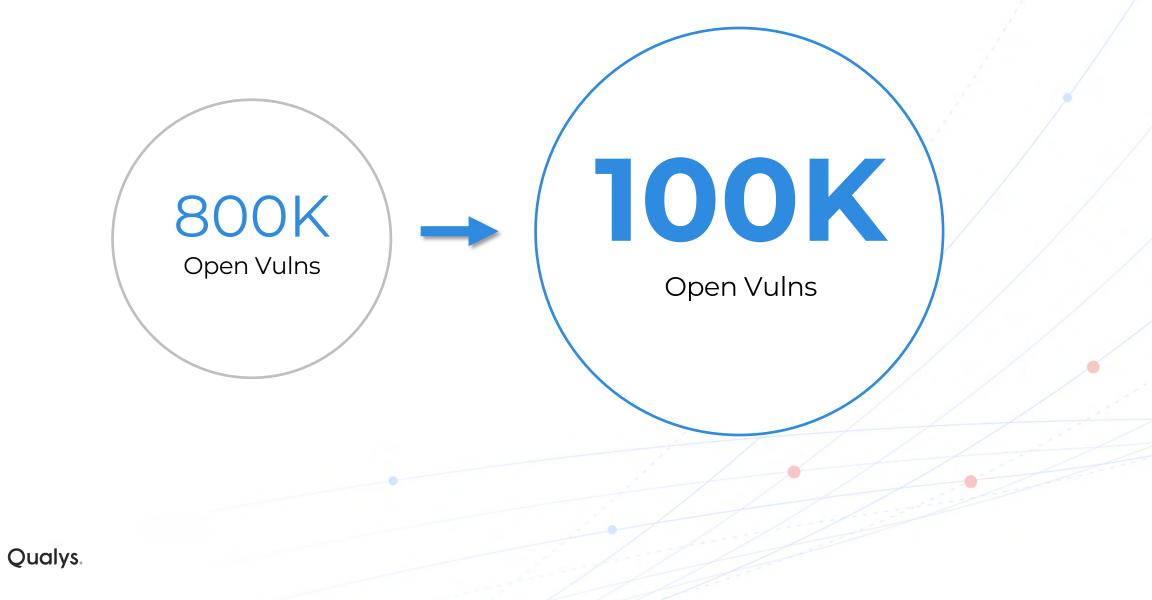


Customer's Real Risk Elimination





Customer's Real Risk Elimination: in a Month



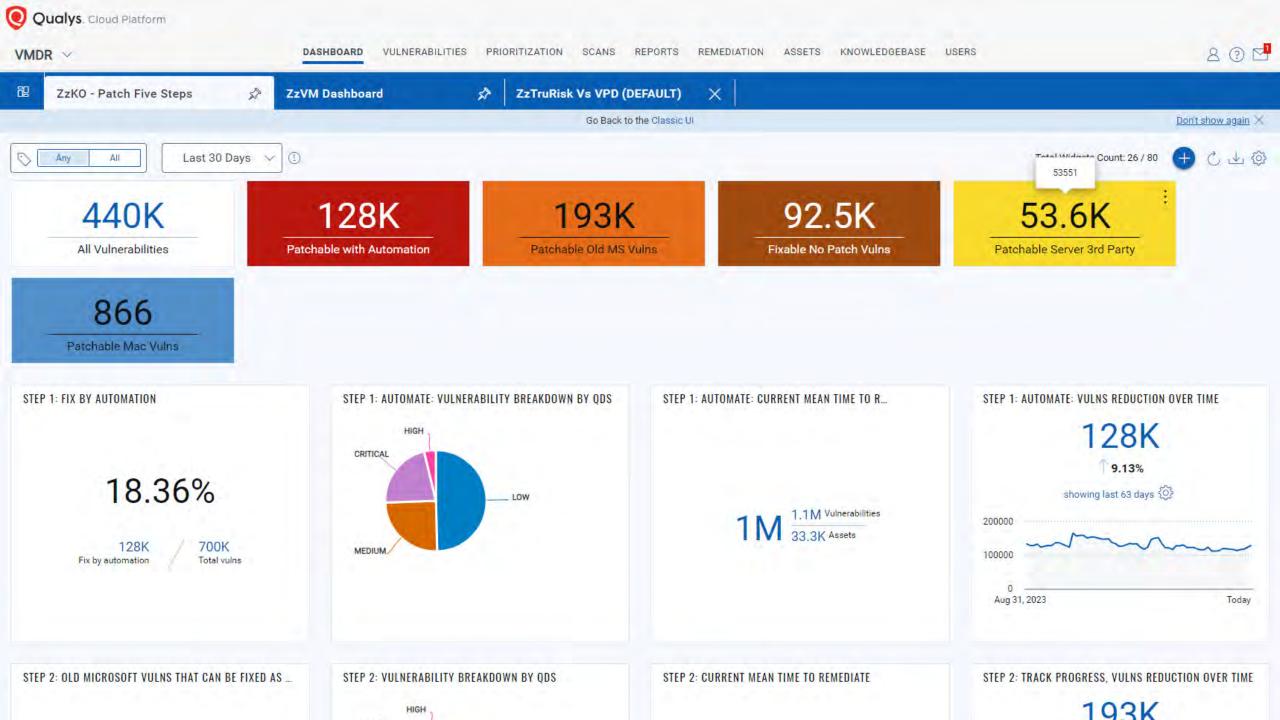
Risk Elimination Across Multiple Attack Surfaces



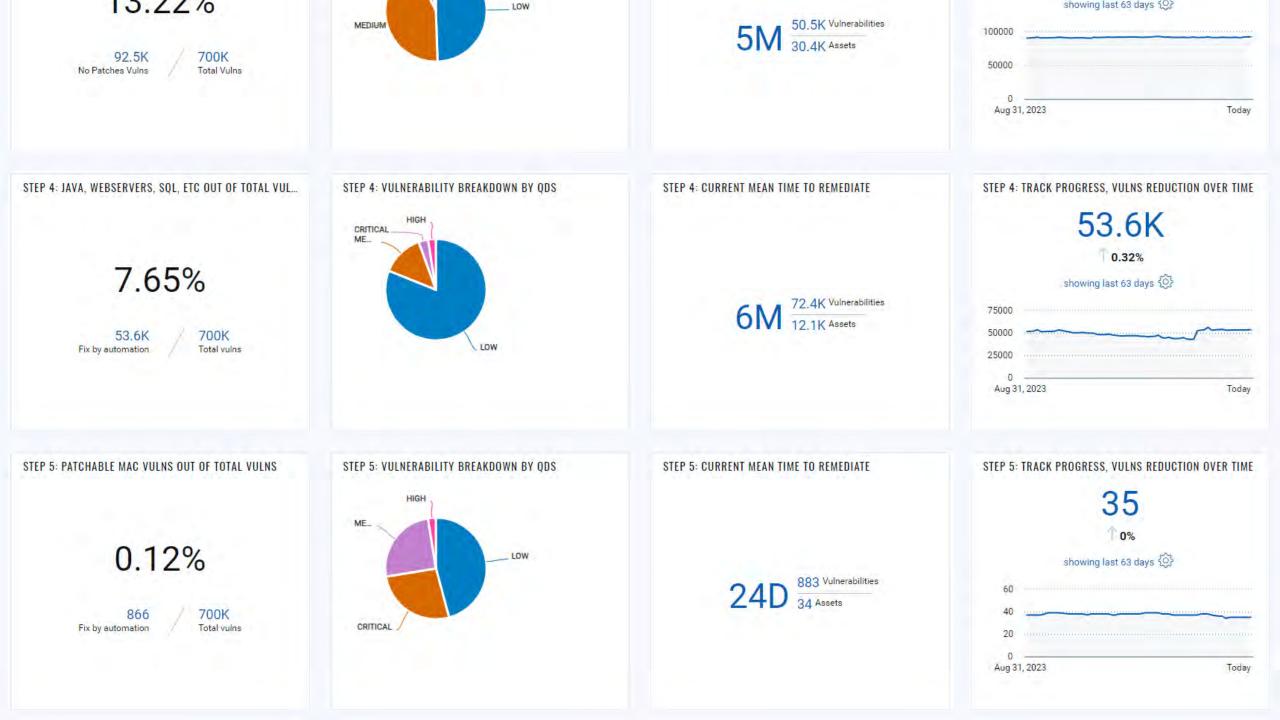


5 Easy Steps for Eliminating your Risk by Complimenting your SCCM













Jeff Huffman

Senior Director, IT Security and Administration

New Orleans Saints

Patch Management



Real Value with Real ROI



SONY MUSIC

Haydur Agha, VP, Cybersecurity

Associated British Foods plc

Nick Shimmen Technical Consultant, CISO Group



Introducing TruRisk Eliminate with Mitigation



Critical Vuln Detected but, Patch Cannot be Deployed



Business Continuity: The operational risk of deploying the patch is too high



Cannot Wait for the Next Maintenance Window: a critical vuln has been released but the next maintenance window is in 2 month!



JDK 1.5 Only! Cannot update Java

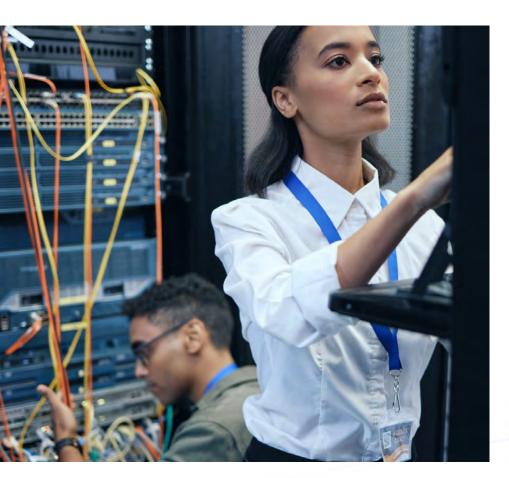




Eliminate risk by applying the **right remediation** or **mitigation** action in the **context** of your business application.



REMEDIATION: Any action required to fix the risk completely as defined by the vendor.





Patches

Deploy patches to the right devices, anywhere

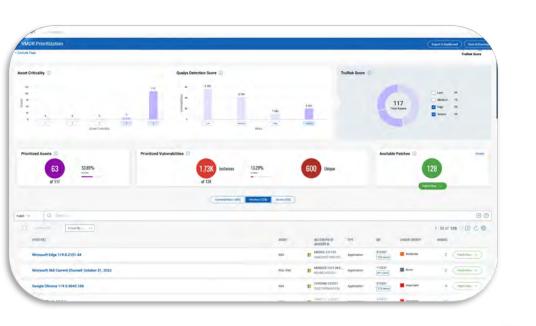


Configuration Changes

Some vulns require conf changes for remediation – provide the visibility and apply



REMEDIATION: Any action required to fix the risk completely as defined by the vendor.





RIGHT Patches

Deploy the right patches to the right devices, anywhere



RIGHT Configuration Changes

Some vulns require conf changes for remediation – provide the visibility and apply



MITIGATION: Qualys researched alternatives to remediation



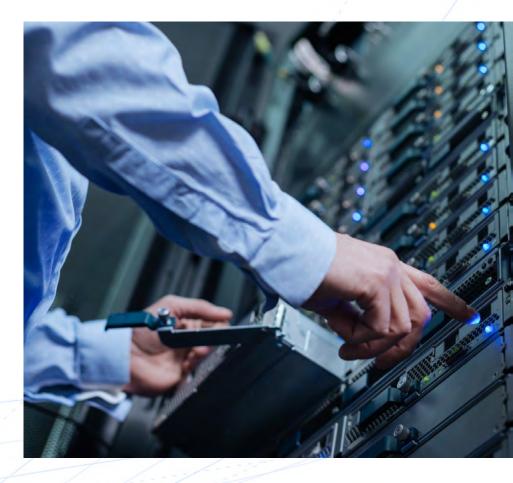
RIGHT Mitigation Actions

- Block port
- Isolate
- Restrict access
- Stop services
- Update network devices, firewalls, IPS etc
- Update cloud network polices
- Etc

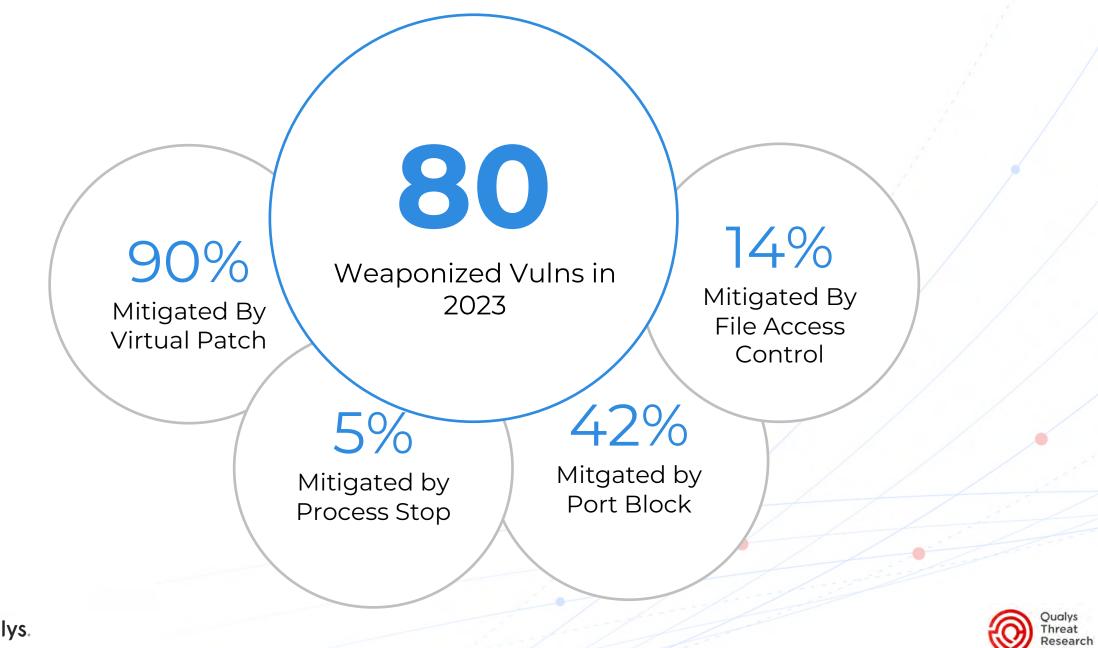


RIGHT Virtual Patch

In-memory protect a vulnerable asset







Unit



TruRisk Eliminate: Powered by Al





Reliability Analysis

Suggest best actions based on contextual historical patch and mitigation reliability



Learn from Others

Learn the operational impact of deploying patches & mitigations to similar customer's environments and suggest the best action



Automation

Automate where operational risk is minimal







TruRisk Eliminate



RIGHT Remediation or Mitigations: Based on Qualys research team



Test, Approve, Deploy: the remediation or mitigation actions that fits your needs



Fully Integrate: into Qualys TruRisk Platform



Smart Automation: ensure software is always up-to-date or mitigate new weaponized vulns automatically before patch is deployed



Works with your current IT tools: work with your SCCM, rollback mitigation when patch deployed etc.







TruRisk Eliminate



 (\checkmark)

Mitigation Management

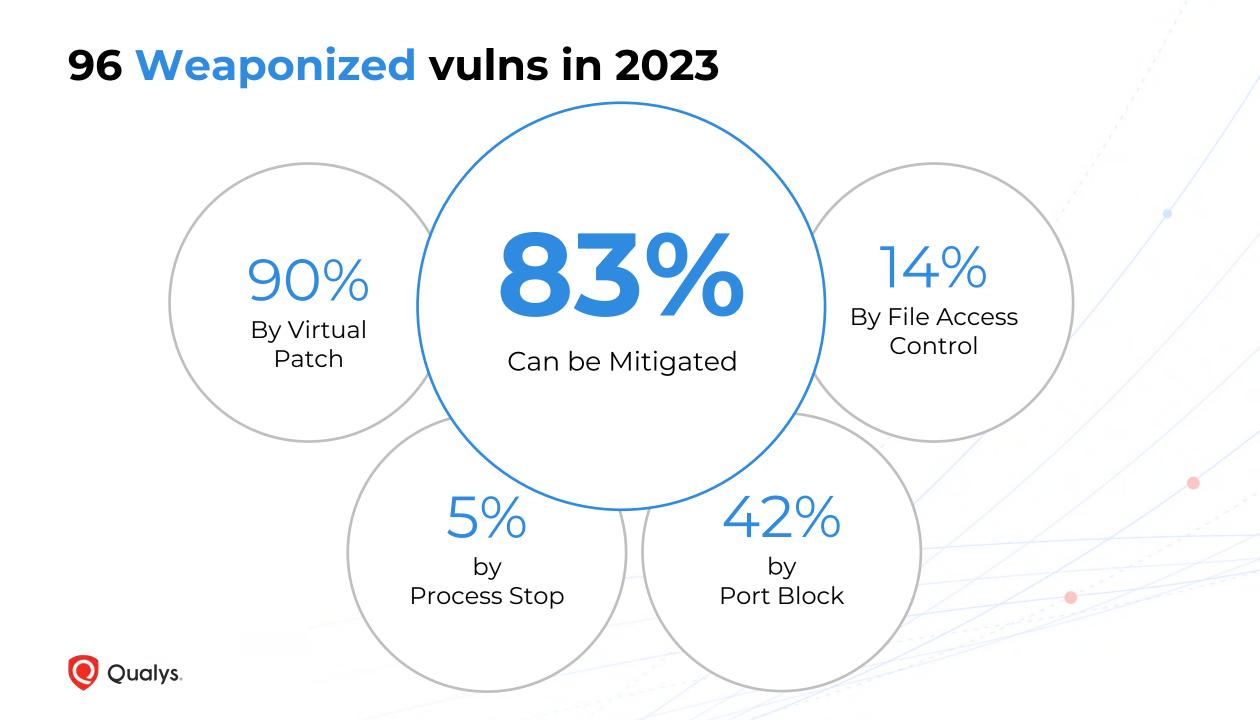
- Available Q2 2024!
- Accepting Design Partners Starting TODAY!

Patch Management (Remediation)

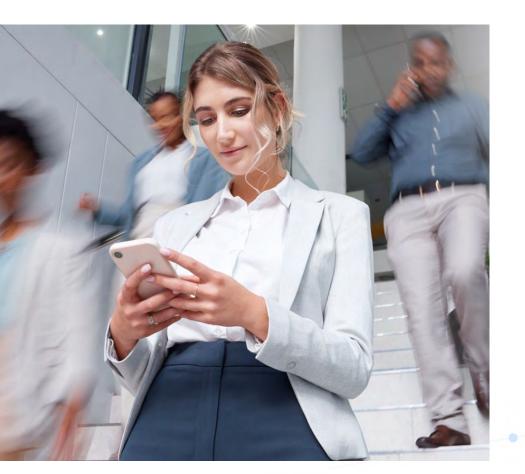
Already Available!







REMEDIATION: Any action required to fix the risk completely as defined by the vendor.





Patches

Deploy patches to the right devices, anywhere



Configuration Changes

Some vulns require conf changes for remediation – provide the visibility and apply





TruRisk Eliminate



Mitigation Management

- Virtual patching
- Contextual Mitigation Actions
- Block ports
- ✓ Kill processes
- 🖌 Etc

 \checkmark

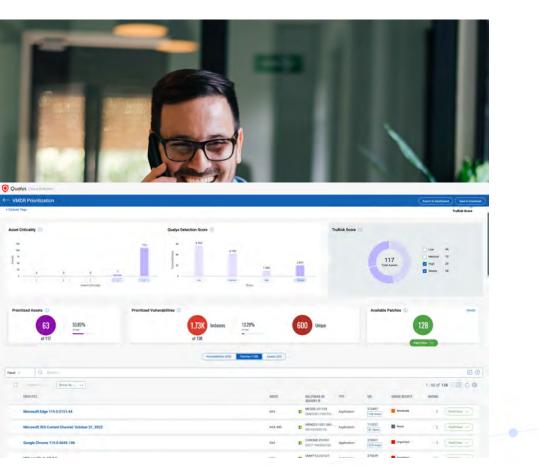
~

Patch Management (Remediation)

- Deploy patches & conf changes
- Already Available!



REMEDIATION: Any action required to fix the risk completely as defined by the vendor.





RIGHT Patches

Deploy the right patches to the right devices, anywhere



RIGHT Configuration Changes

Some vulns require conf changes for remediation – provide the visibility and apply





Real World Risk Elimination

Customers



Within few days of POC: 40% risk reduction in CISA vulns and 32% in 80+ QDS



Patched installed without Qualys Q4 2020 – Q1 2022 = **1.2M** Patches installed with Qualys Patch Q2 2022 – Q3 2022 **= 3M**



From 800K to 100K in a month



Reduced avg number of vulns per Windows 10 device by 90%



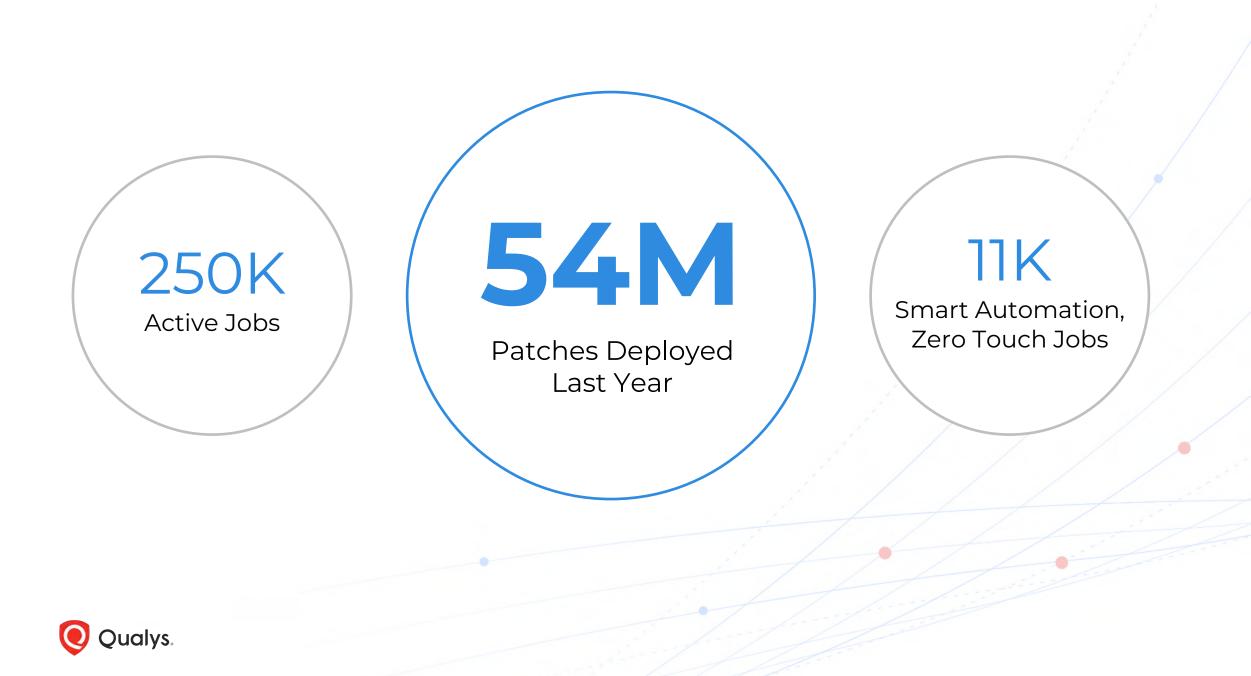
Vulnerability **Not** Equals a Patch

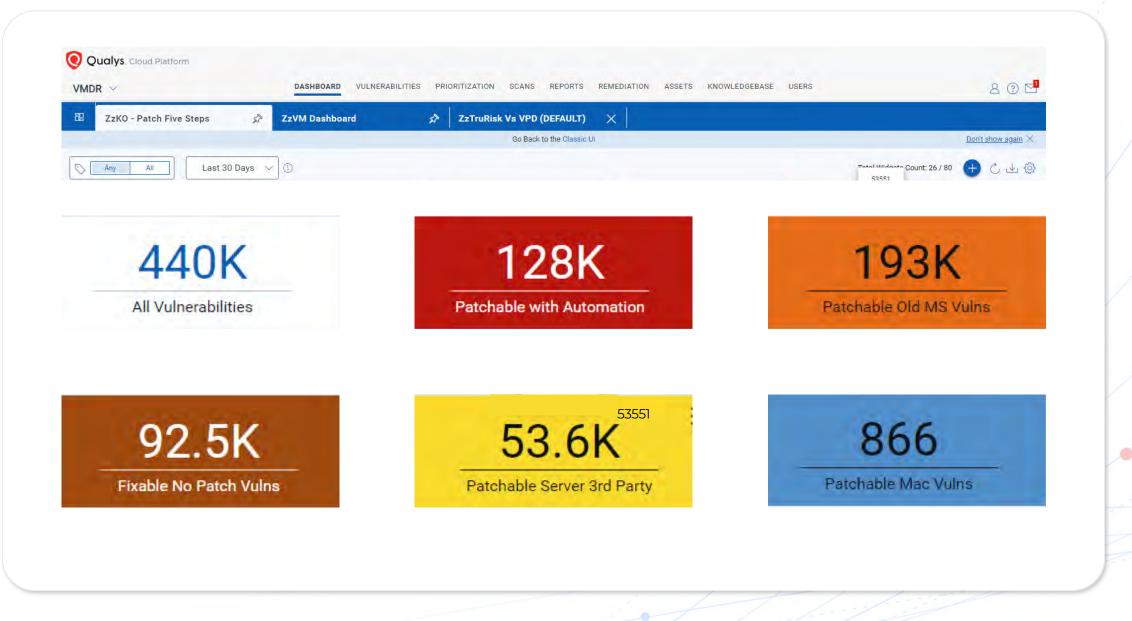
CVE-2021-34527 "PrintNightmare"

"In addition to installing the updates, in order to secure your system, you must confirm registry settings are set to 0"

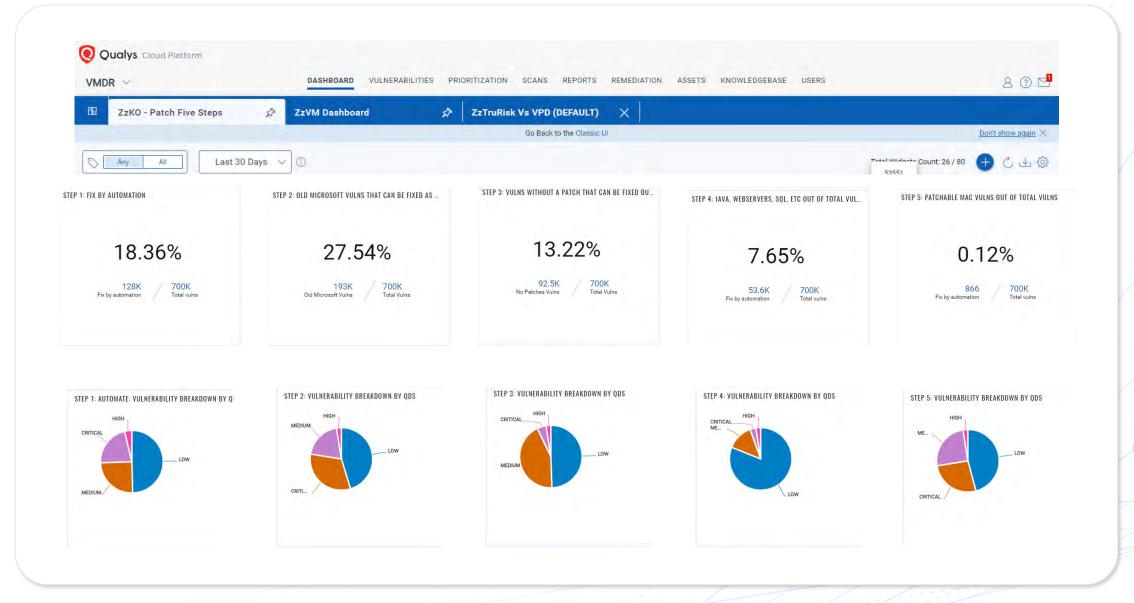
Remediation = RegKey Change + Latest Patch



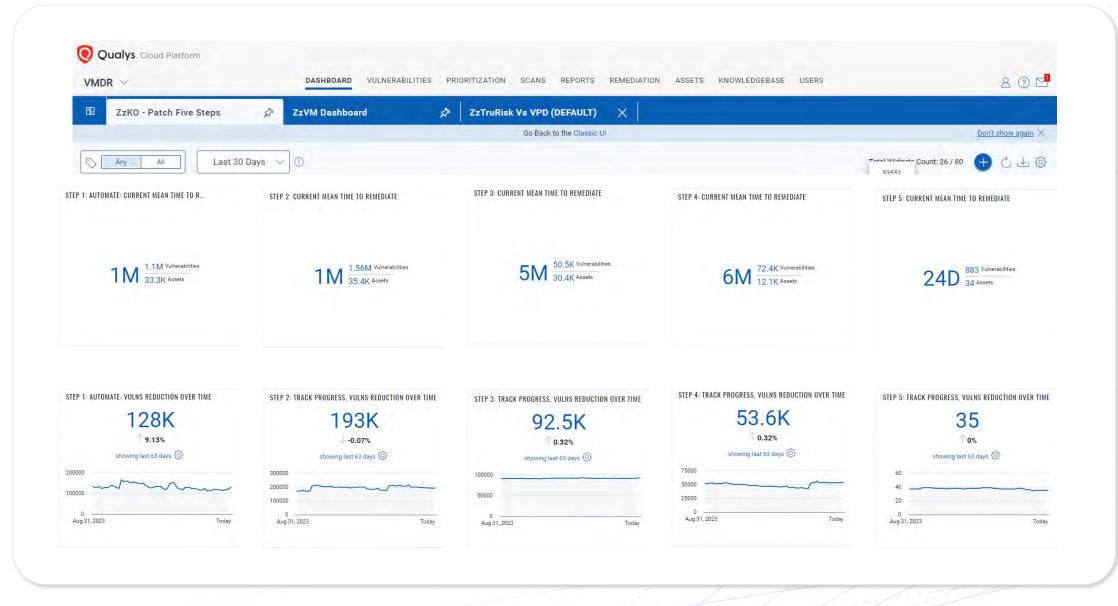




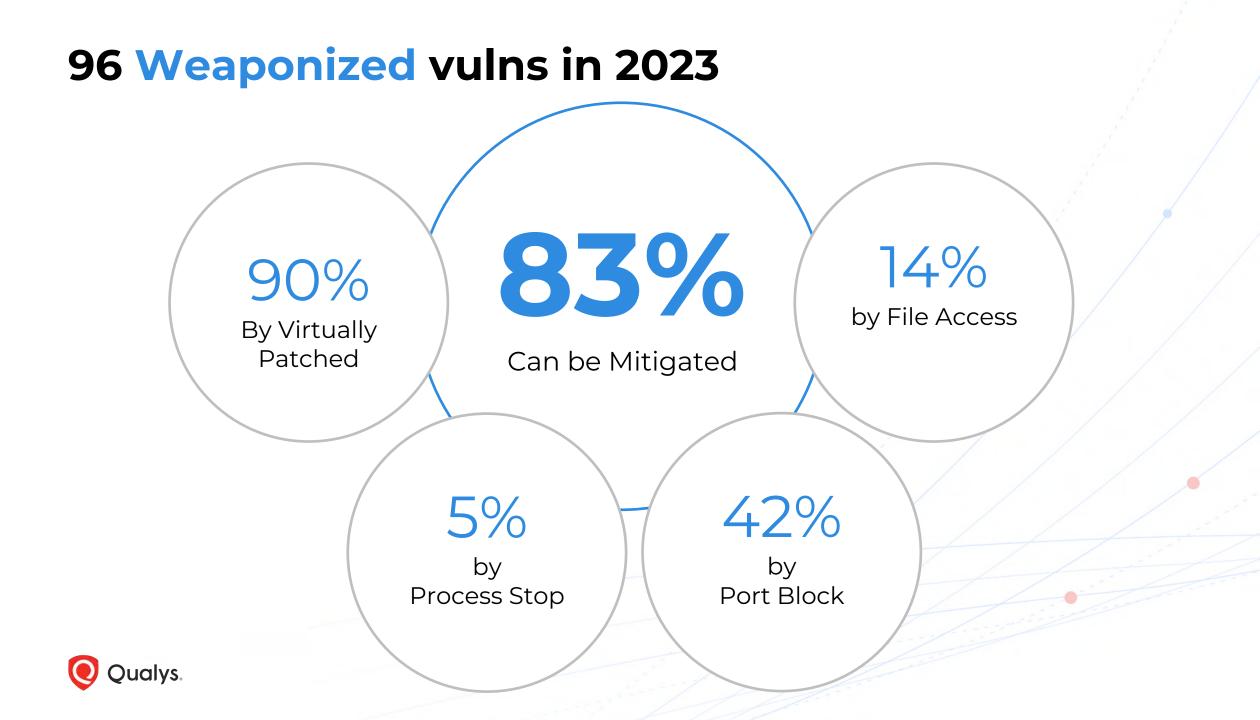












96 Weaponized vulns in 2023 90% 83% 5% Coverage Virtual Patch **Process Stop** 100% 14% 42% File Mitigation Qualys Guarantees **Block Ports**



96 Weaponized vulns in 2023 90% 83% 5% Coverage Virtual Patch **Process Stop** 100% 14% 42% File Mitigation Qualys Guarantees **Block Ports**

