Remediating the Nightmares: Preparing to Reduce Risk Comprehensively with TruRisk Eliminate

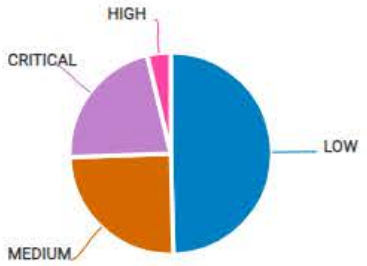
Eran Livne
Sr Director Product Management

STEP 1: FIX BY AUTOMATION

18.36%

128K Fix by automation / 700K Total vulns

STEP 1: AUTOMATE: VULNERABILITY BREAKDOWN BY QDS



STEP 1: AUTOMATE: CURRENT MEAN TIME TO R...

1M

1.1M Vulnerabilities

33.3K Assets

STEP 1: AUTOMATE: VULNS REDUCTION OVER TIME

128K

9.13%

showing last 63 days

STEP 2: OLD MICROSOFT VULNS THAT C...

27.54%

193K Old Microsoft Vulns / 7... Total vulns

How can we be more efficient?

...CK PROGRESS, VULNS REDUCTION OVER TIME

193K

-0.07%

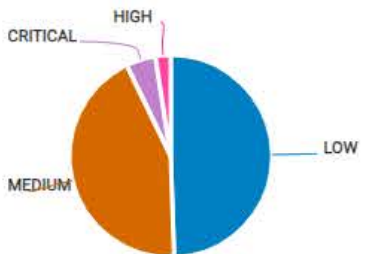
showing last 63 days

STEP 3: VULNS WITHOUT A PATCH THAT CAN BE FIXED OU...

13.22%

92.5K / 700K

STEP 3: VULNERABILITY BREAKDOWN BY QDS



STEP 3: CURRENT MEAN TIME TO REMEDIATE

5M

50.5K Vulnerabilities

30.4K Assets

STEP 3: TRACK PROGRESS, VULNS REDUCTION OVER TIME

92.5K

0.32%

showing last 63 days

GUIDANCE

Vulnerability management

This area provides advice, guidance and other resources aimed specifically at those with an interest in vulnerability management.

1. Put in place a policy to update by default

Apply updates as soon as possible, and ideally automatically, in line with our best-practice timescales.

Thinking behind this principle

Installing the latest updates is critical to ensuring the security of your estate. **You should put in place a policy to update by default, where you always apply software updates as soon as possible, and ideally automatically.** This should be at the core of your update

National Cyber Security Centre

Type of estate	Rollout	Update completed within
Internet-facing services and software	Install on test environment or backup first. Test and rollout (a phased rollout can be used if applicable).	5 days
Operating system and applications	These updates should be applied automatically, as soon as an update is published. Phased rollout, for example 10% of the estate updated per day. Pause/rollback if issues encountered.	7 days
Internal/air-gapped service and software	Install on test environment or backup first. Test and rollout.	14 days

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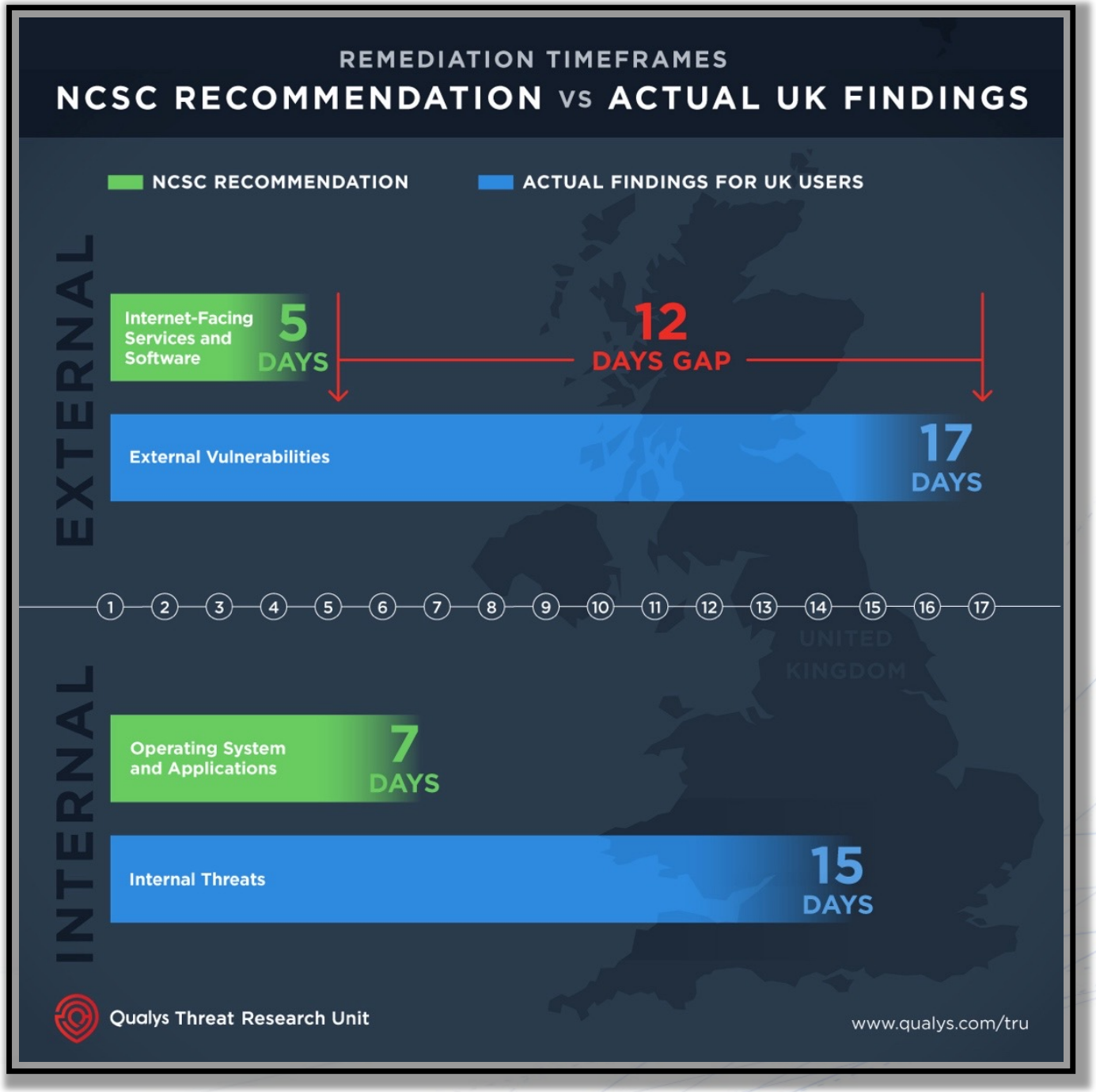
REMEDIATION TIMEFRAMES
NCSC RECOMMENDATION vs ACTUAL UK FINDINGS
NCSC RECOMMENDATION
ACTUAL FINDINGS FOR UK USERS
EXTERNAL
Internet-Facing Services and Software
5 DAYS
12 DAYS GAP
External Vulnerabilities
17 DAYS
1 2 3 4 5 6 7 8 9 10 11 12 13 14 15 16 17
INTERNAL
Operating System and Applications
7 DAYS
Internal Threats
15 DAYS
UNITED KINGDOM
Qualys Threat Research Unit
www.qualys.com/tru

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Qualys Patch can Help

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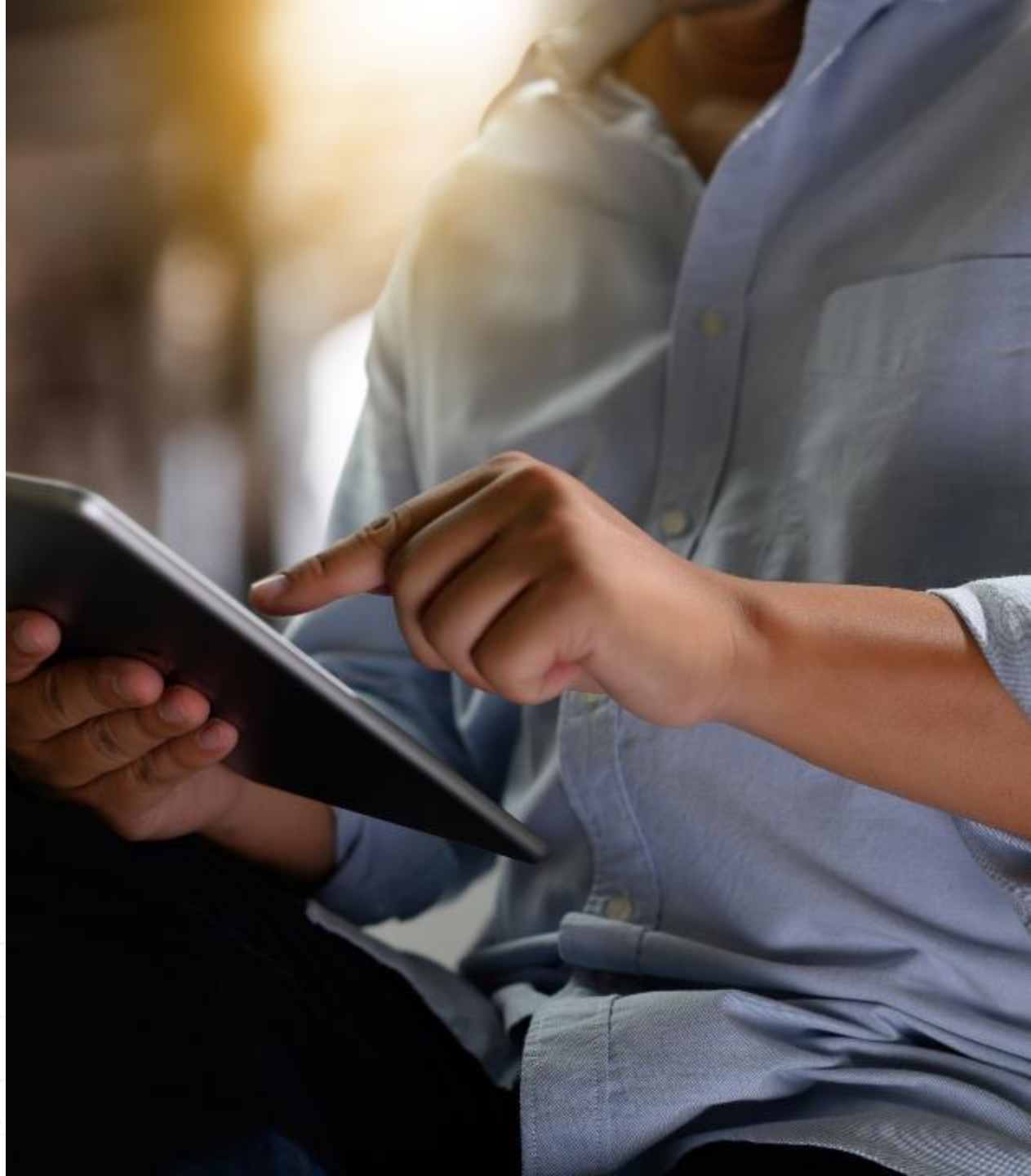
Step 1:

Smart Automation for Low Hanging Fruit



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Chrome: 2647
(2008-2023)

Firefox: 2131
(2003-2023)

Adobe: 1530
(2004-2023)

iTunes: 613
(2005-2023)

VLC: 105
(2007-2022)

Smart Automation

Automate Low Hanging Fruit: 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.

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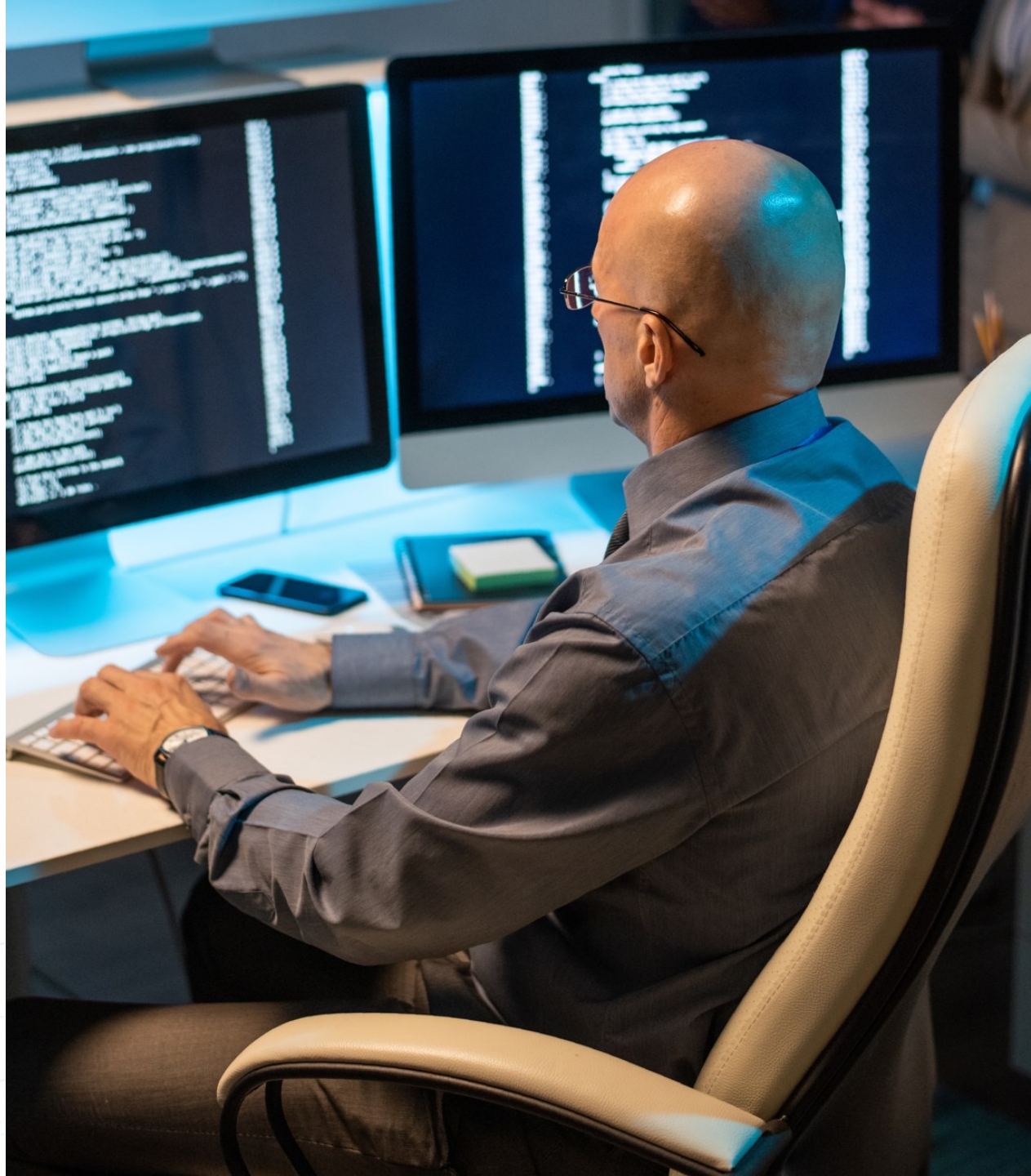
Step 2:

Complement & Simplify your Current Remediation Workflows



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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

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Smart Automation

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.

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Risk Elimination Across Multiple Attack Surfaces

On-Prem Assets

Cloud Assets

Work From Home (WFH)
or Roaming Assets

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54M

Patches Deployed Last Year

25%

Faster remediation of internet facing assets with Patch

71%

Ransomware vulns can be fixed with Patch!

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Demo

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5 Easy Steps for Eliminating Your Risk by Complimenting Your SCCM

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Any All | Last 30 Days

Total Widgets Count: 26 / 80

53551

440K
All Vulnerabilities

128K
Patchable with Automation

193K
Patchable Old MS Vulns

92.5K
Fixable No Patch Vulns

53.6K
Patchable Server 3rd Party

866
Patchable Mac Vulns

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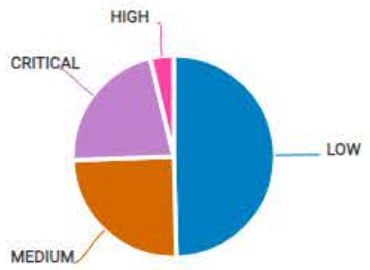
STEP 1: AUTOMATE: VULNERABILITY BREAKDOWN BY QDS



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STEP 2: VULNERABILITY BREAKDOWN BY QDS

STEP 2: CURRENT MEAN TIME TO REMEDIATE

STEP 2: TRACK PROGRESS, VULNS REDUCTION OVER TIME

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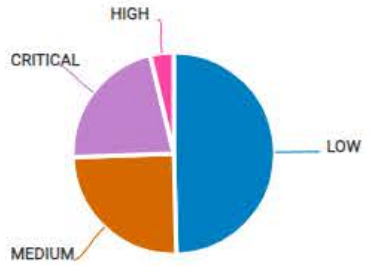

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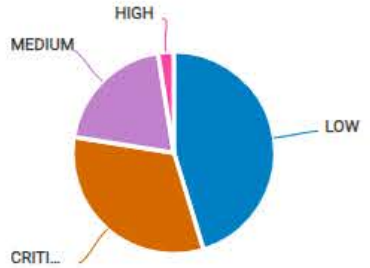

STEP 2: CURRENT MEAN TIME TO REMEDIATE

1M

1.56M Vulnerabilities

35.4K Assets

STEP 2: TRACK PROGRESS, VULNS REDUCTION OVER TIME

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-0.07%

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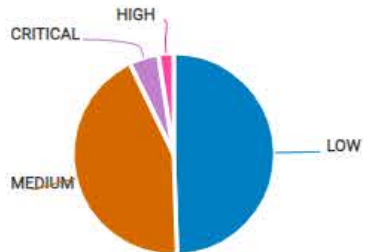

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STEP 3: TRACK PROGRESS, VULNS REDUCTION OVER TIME

92.5K

0.32%

showing last 63 days

13.22%

92.5K
No Patches Vulns

700K
Total Vulns

5M

50.5K Vulnerabilities

30.4K Assets

showing last 63 days

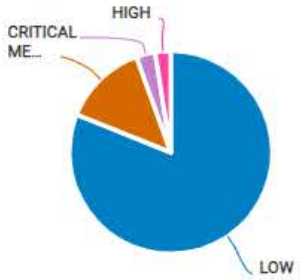
STEP 4: JAVA, WEBSERVERS, SQL, ETC OUT OF TOTAL VUL...

7.65%

53.6K
Fix by automation

700K
Total vulns

STEP 4: VULNERABILITY BREAKDOWN BY QDS



STEP 4: CURRENT MEAN TIME TO REMEDIATE

6M

72.4K Vulnerabilities

12.1K Assets

STEP 4: TRACK PROGRESS, VULNS REDUCTION OVER TIME

53.6K

0.32%

showing last 63 days

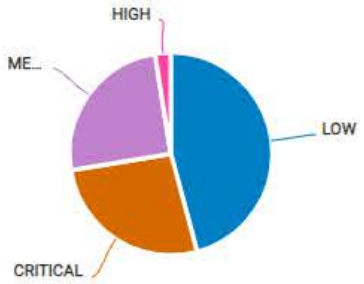
STEP 5: PATCHABLE MAC VULNS OUT OF TOTAL VULNS

0.12%

866
Fix by automation

700K
Total vulns

STEP 5: VULNERABILITY BREAKDOWN BY QDS



STEP 5: CURRENT MEAN TIME TO REMEDIATE

24D

883 Vulnerabilities

34 Assets

STEP 5: TRACK PROGRESS, VULNS REDUCTION OVER TIME

35

0%

showing last 63 days

TruRisk Eliminate with Mitigation

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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

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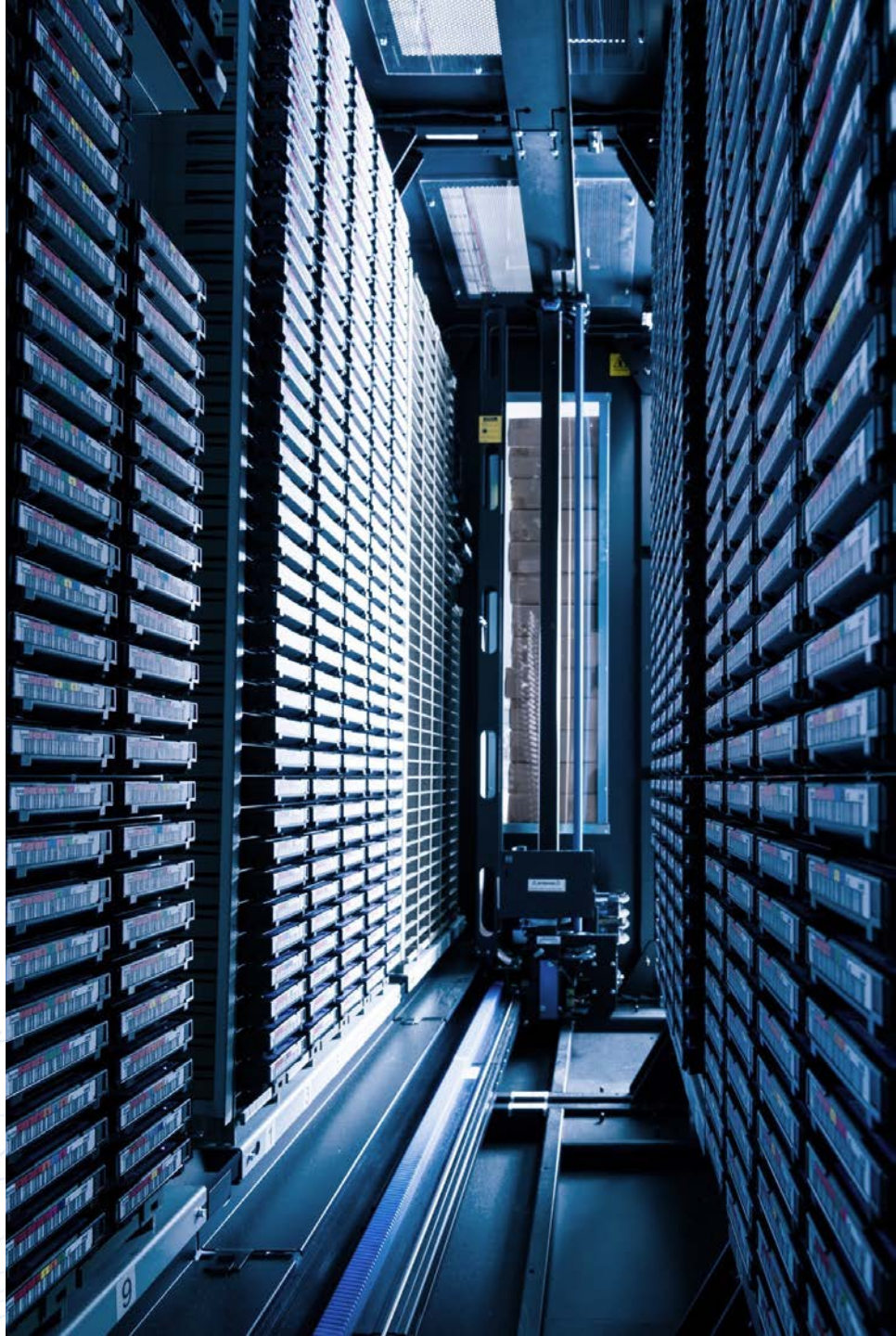


Eliminate risk by applying the **right remediation** or **mitigation** action in the **context** of your business application.
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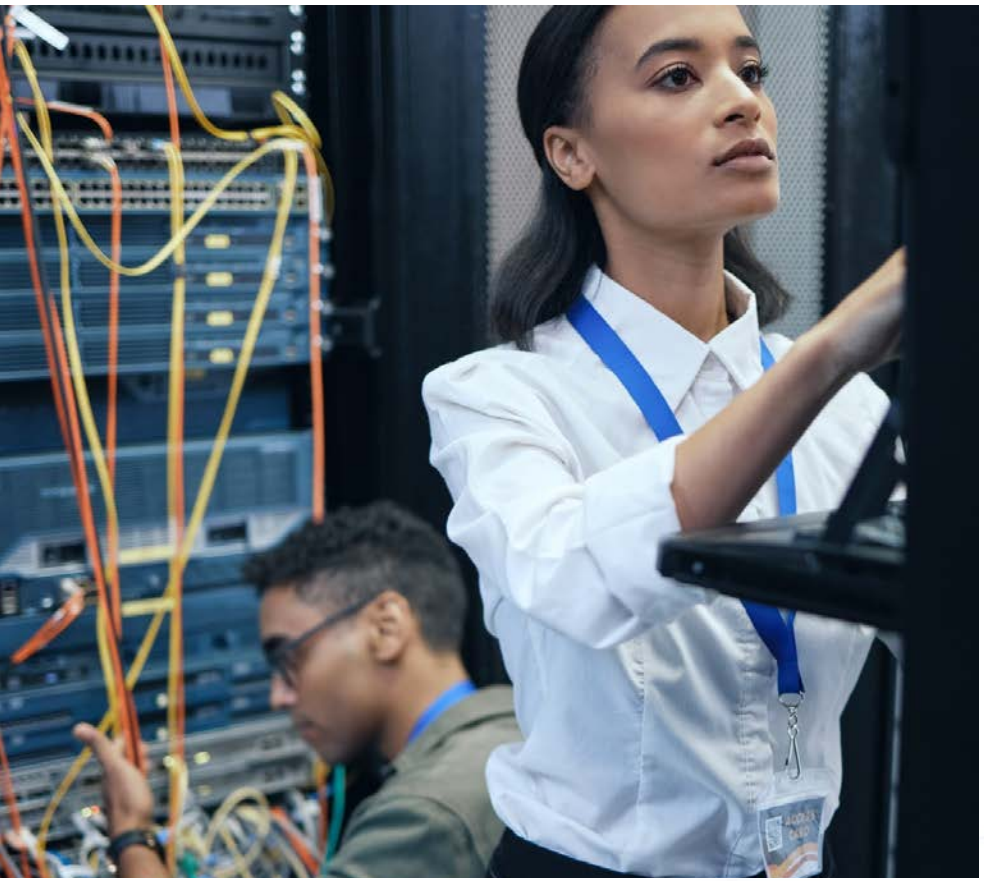
REMEDIATION: Any action required to fix the risk completely as defined by the vendor.



Patches

Deploy patches to the right devices, anywhere

Configuration Changes

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

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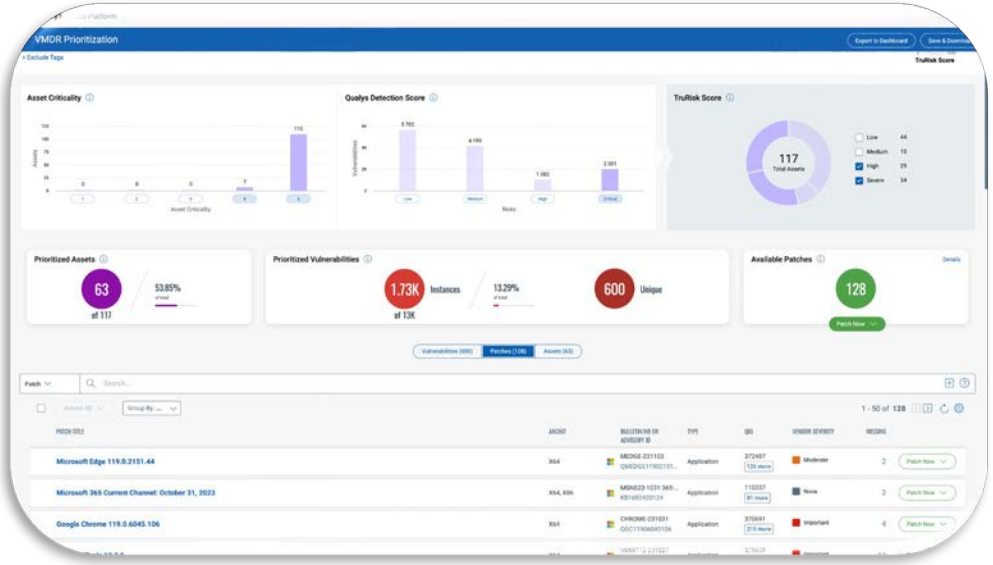

RIGHT Patches

Deploy the right patches to the right devices, anywhere

RIGHT Configuration Changes

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

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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

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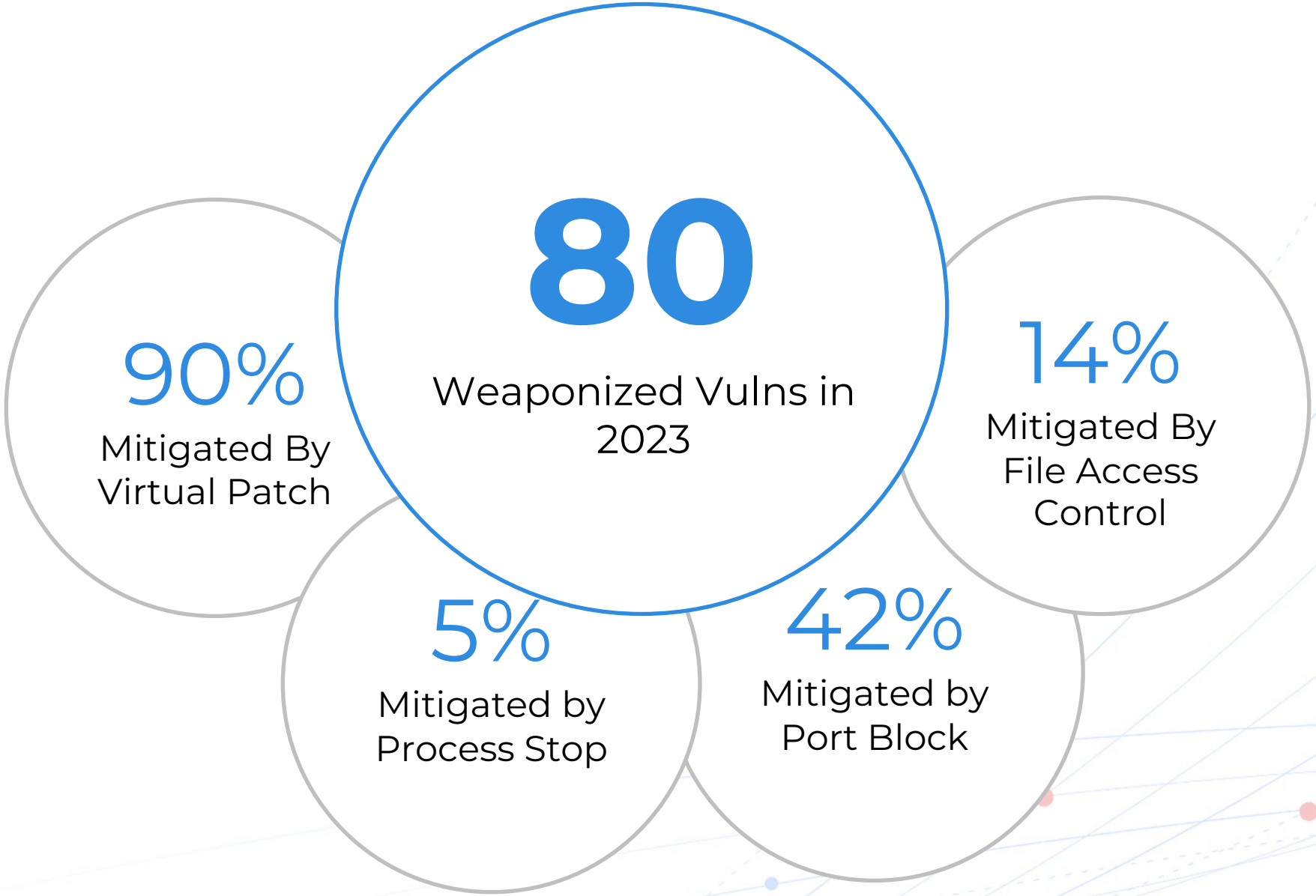

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Conclusion

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"A vulnerability management process shouldn't exist in isolation. It is a cross-cutting effort and involves not just those working in IT operations, but also security and risk teams."

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Try Now

Master Vulnerability Remediation in 5 Steps.

Gain unmatched insight into a tailored security risk profile using your data and environment through a custom dashboard.

Accelerate vulnerability remediation by 43% with practical recommendations and a strategic roadmap to bolster your security.

Achieve a 90% patch rate improvement through smart automation and Qualys Patch Management.

Download Now

www.qualys.com

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.

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SC
24

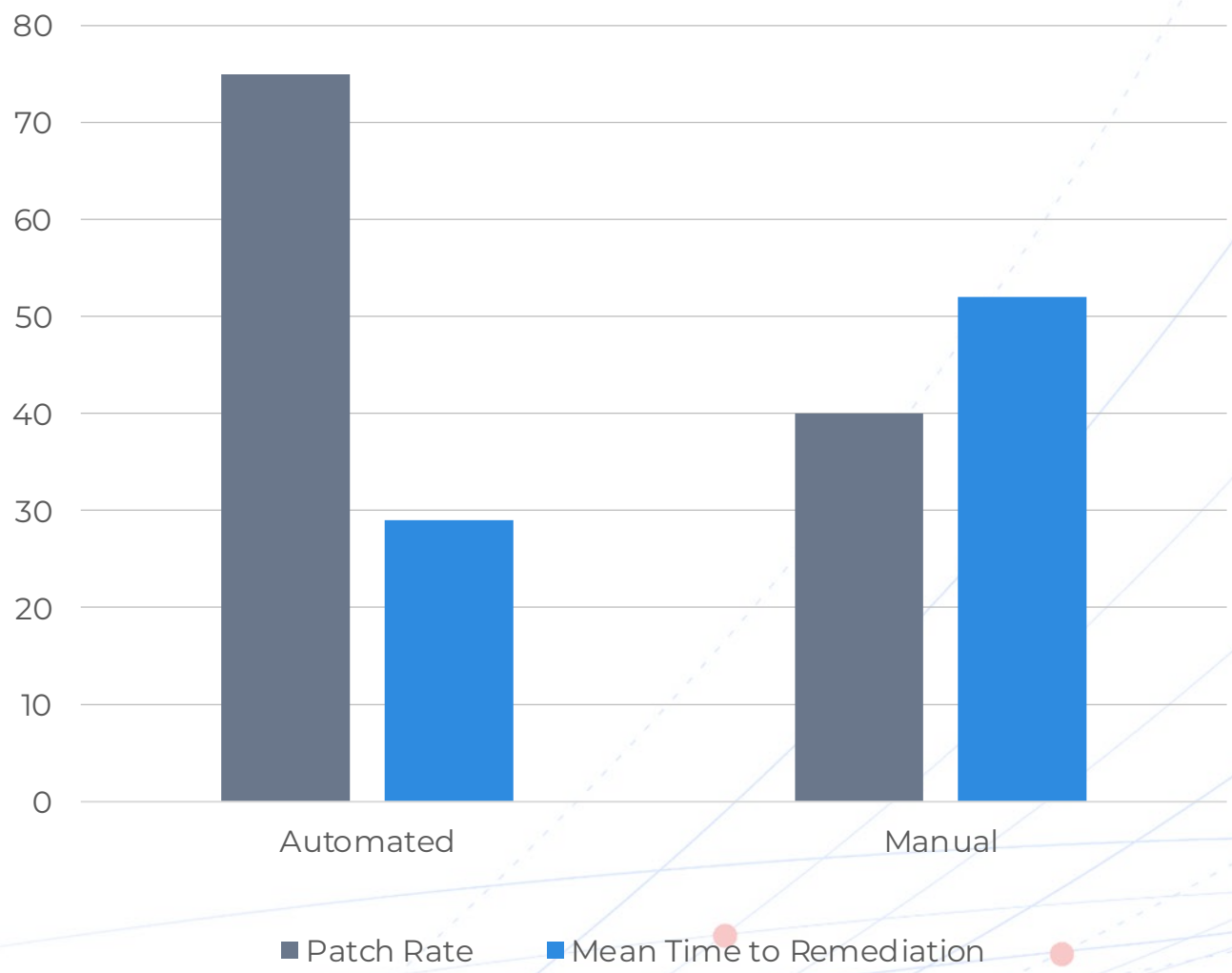
Automation is Key

89.5%

Improvement in Patching Rates

43.1%

Improvement in MTTR Speed



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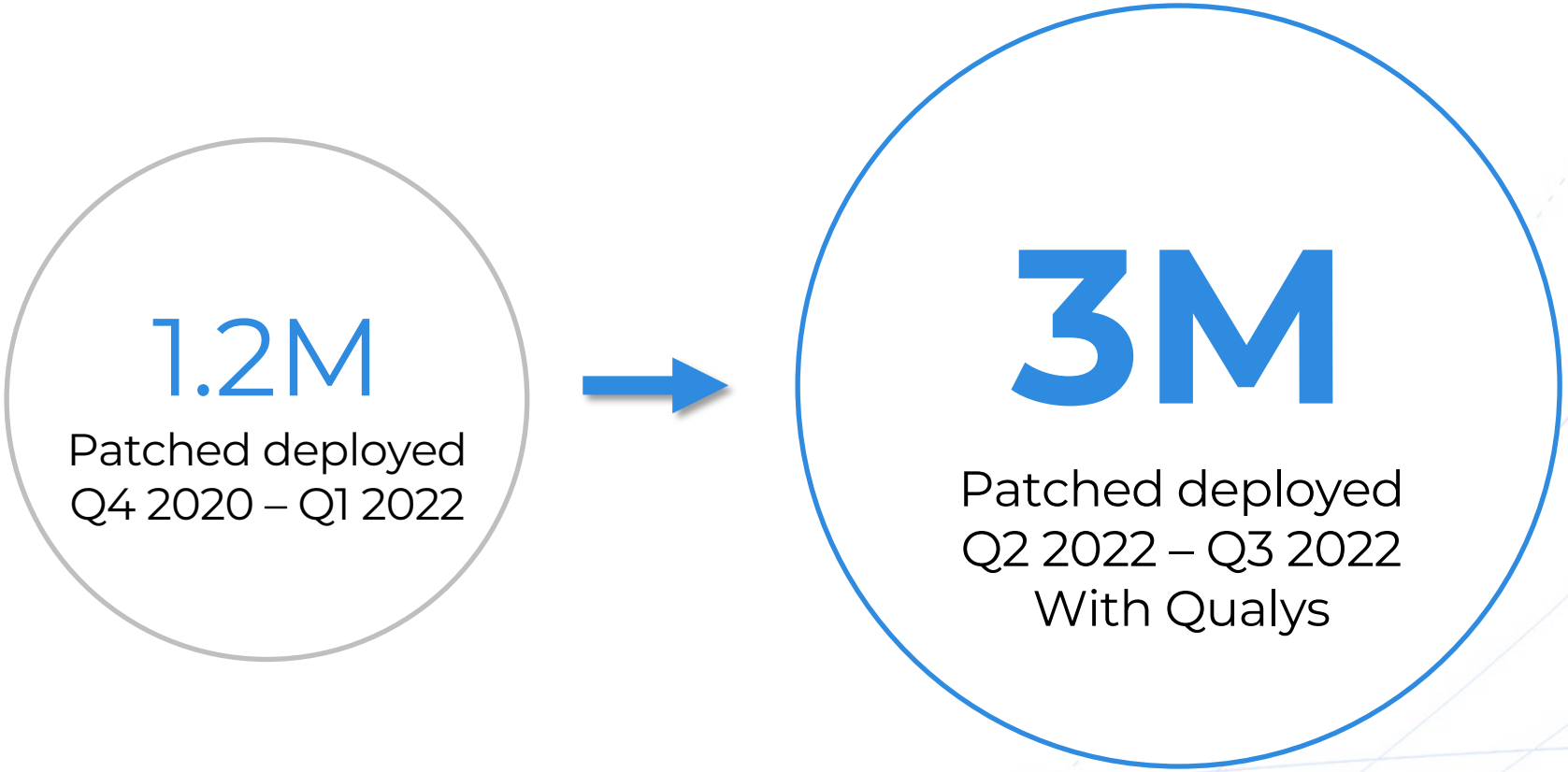
Customer's Real Risk Elimination



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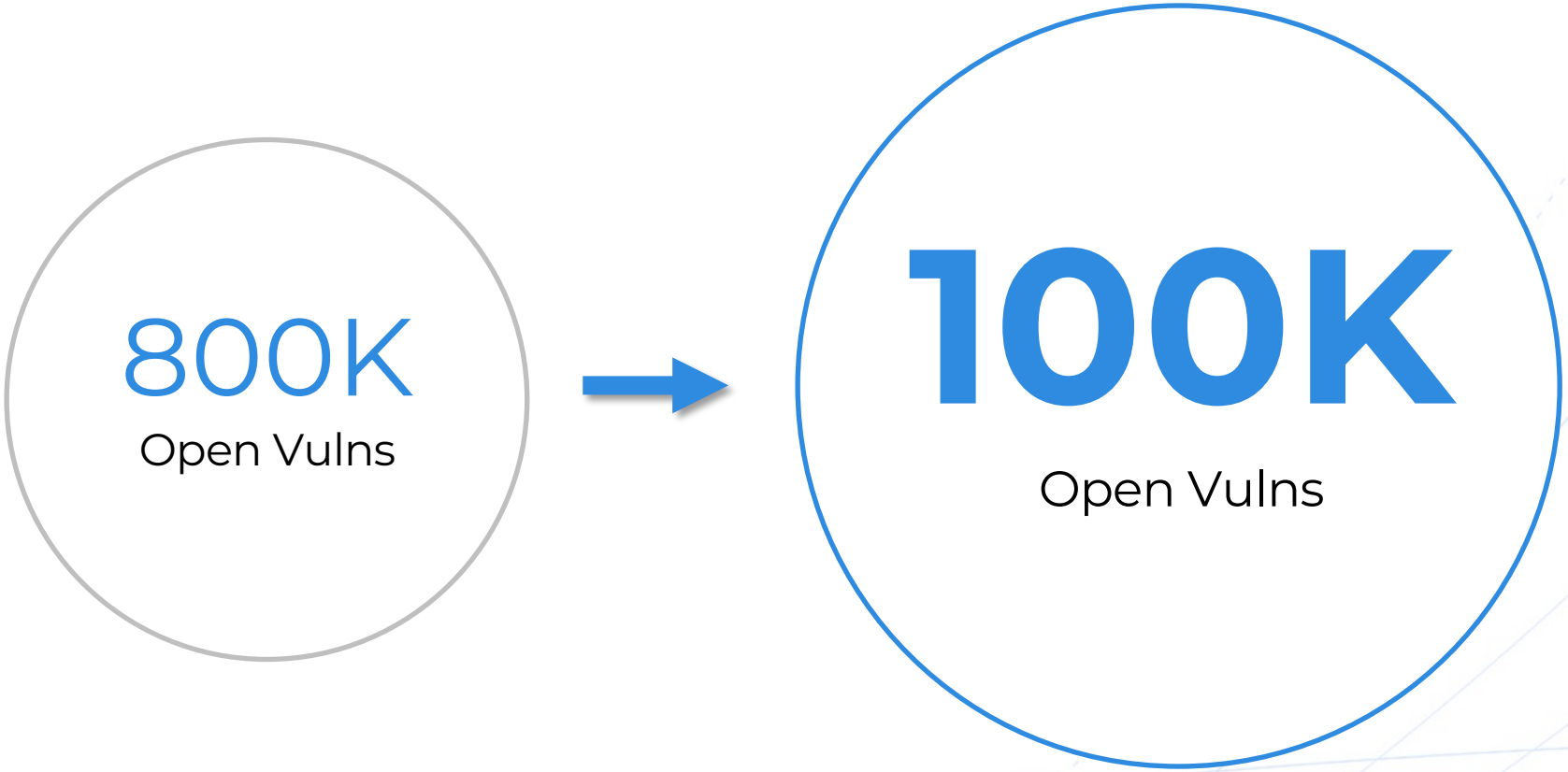
Customer's Real Risk Elimination: in a Month



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