

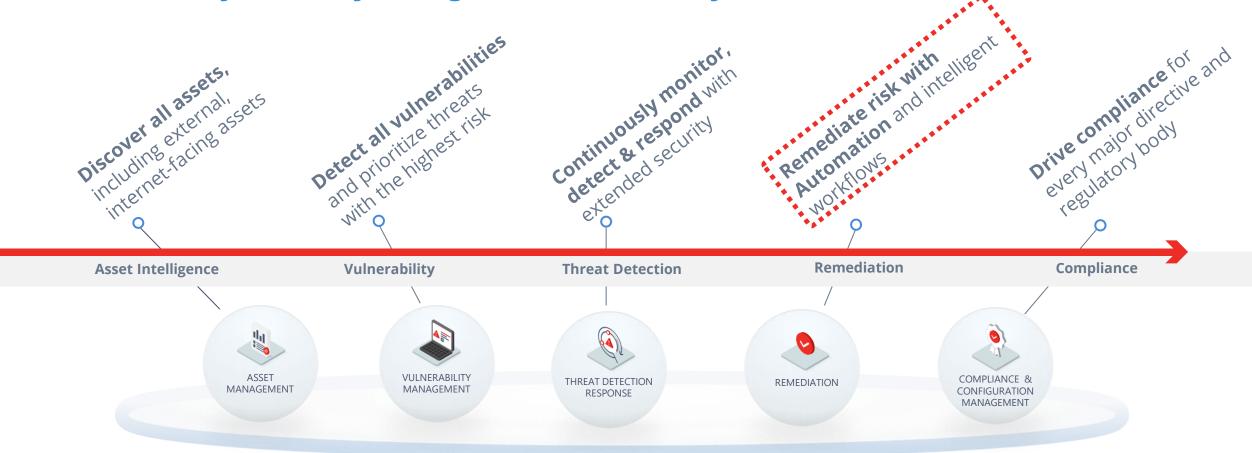
Unlocking Intelligence-Backed Remediation: Insights from the Qualys Threat Research Unit

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A Risk-based Approach to Cybersecurity

All Security Journey's Begin with Discovery



Qualys Threat Research Unit



Prevention Is Key to Reducing Digital Risk



Speed is the Key to Out-maneuvering Adversaries



Misconfigs Still Prevalent in Web Applications



Automation is the Difference Between Success and Failure



Infrastructure Misconfigs Open the Door to Ransomware



Initial Access Brokers Attack What Organizations Ignore



CISA Updates Its List of Known Exploited Vulnerabilities

The Cyber Security and Infrastructure Security Agency (CISA) in the US has made 17 new additions to its list of vulnerabilities that are known to be exploited by malicious actors.

Software vulnerabilities are exploited by a range of actors to gain initial access to a network, which then enables them to carry out further attacks.

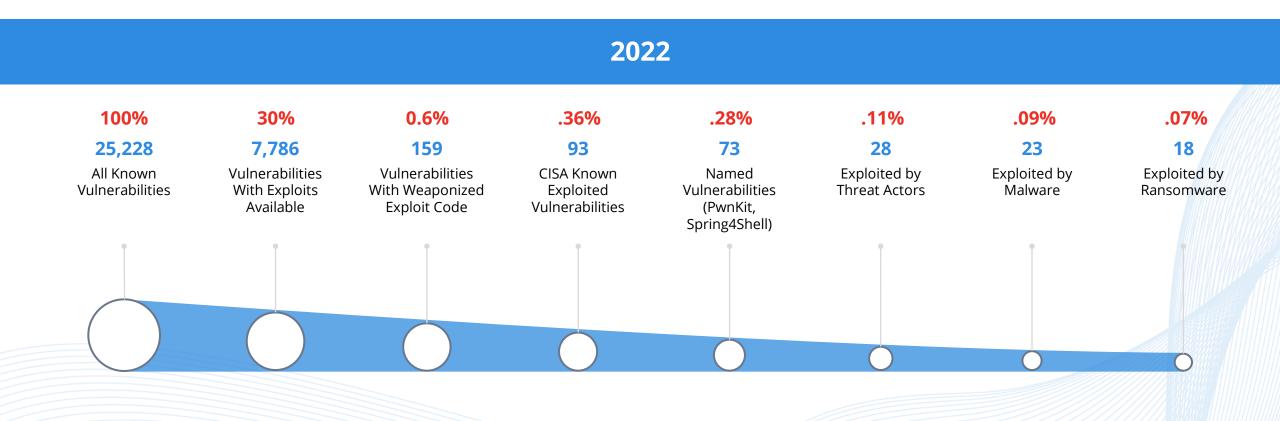
Two notable additions to the list are: the vulnerability in 'October CMS' (CVE-2021-32648) that may have been used to deface Ukrainian government websites and the new SolarWinds vulnerability (CVE-2021-35247) that actors unsuccessfully attempted to exploit to propagate Log4j attacks.

The full list of known exploited vulnerabilities is on the CISA website. This is also a reminder to organizations of the need to install security updates to patch vulnerabilities. See NSCS guidance on **mitigating malware** and **vulnerability management** for more information.

https://www.ncsc.gov.uk/report/weekly-threat-report-28th...



Vulnerability Threat Landscape





Weaponized Vulns



19.5

Time to Weaponize (Days)



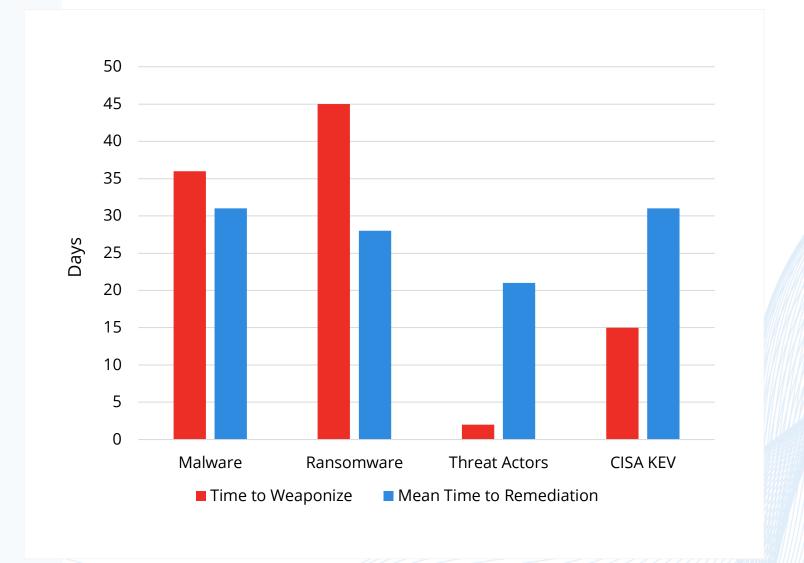
30.6

Mean Time to Remediate (Days)



57.7%

Remediated Vulnerabilities



Typical Vulnerability Lifecycle



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



Automation is Key



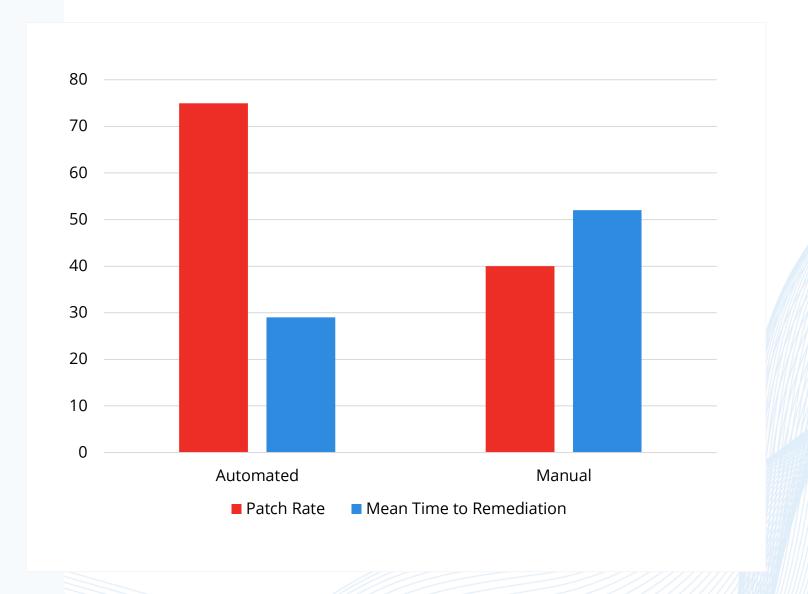
89.5%

Improvement in Patching Rates



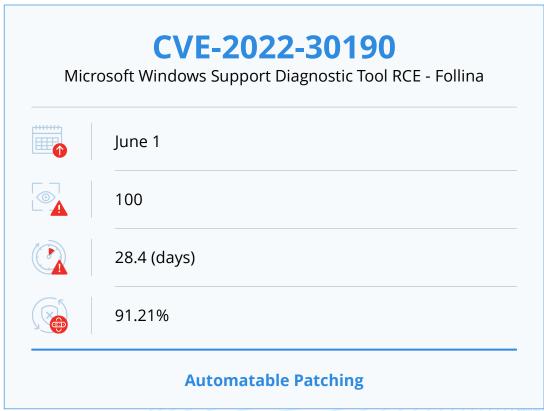
43.1%

Improvement in MTTR Speed



The Tale of Two Vulnerabilities

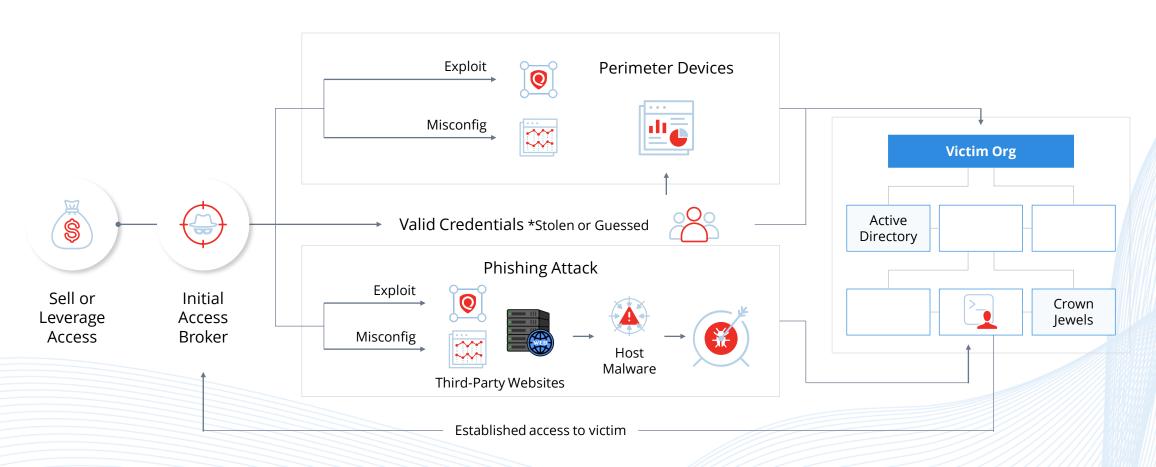




Threat Actors are Diversifying from Common Vulnerabilities



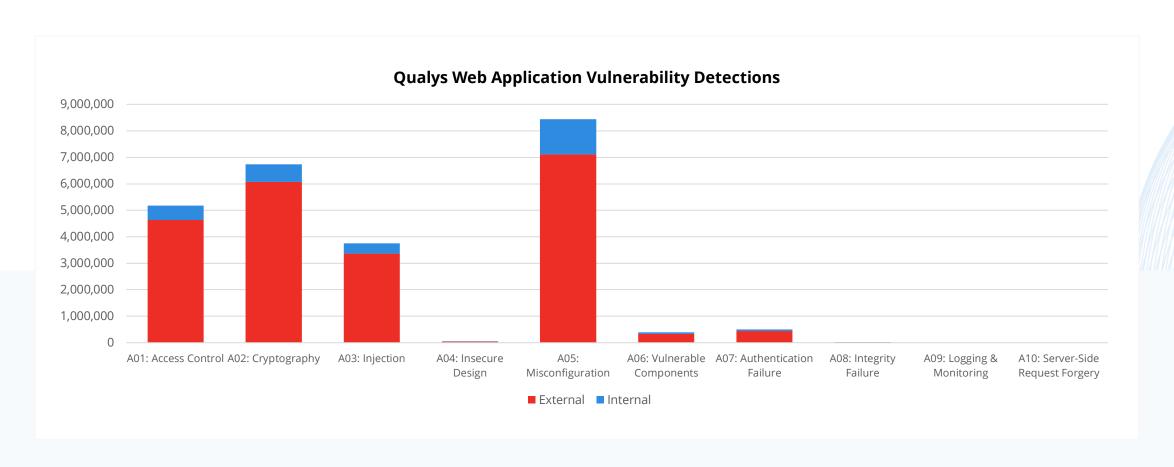
About Initial Access Brokers



2022 Vulnerabilities Exploited by IABs

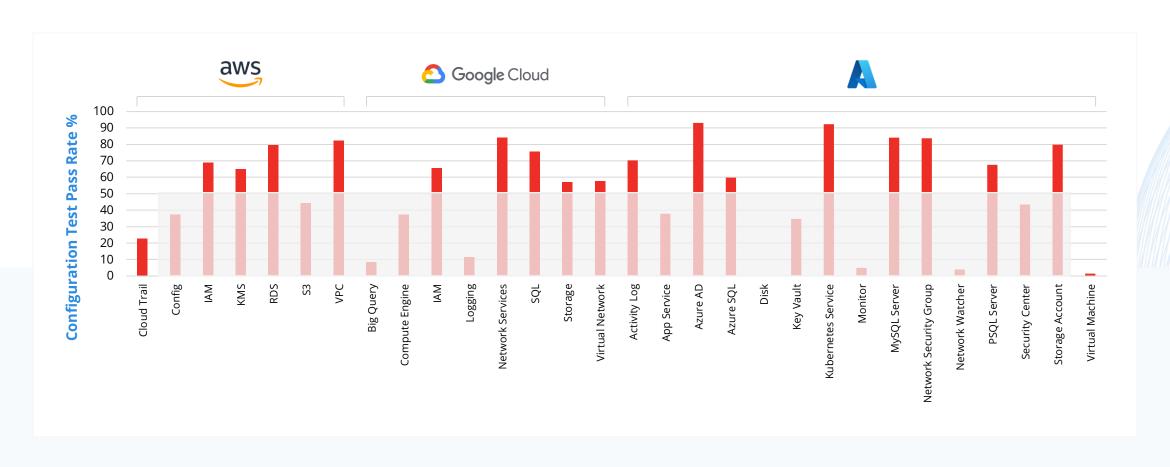


Web Application Security Scans





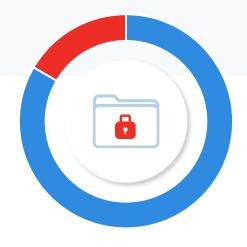
Failing Controls in Cloud Infrastructure



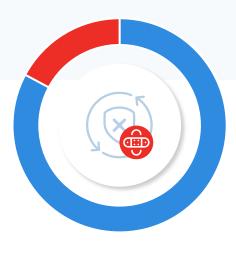
Endpoint Misconfigurations



Password Hygiene



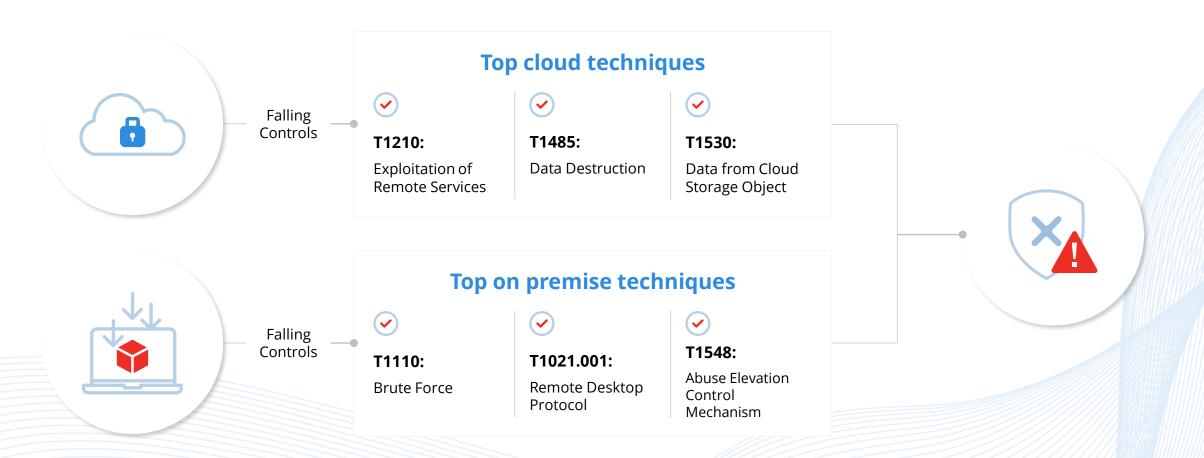
User Permissions



Update Settings



Misconfigurations Leading to Ransomware







https://www.qualys.com/forms/tru-report/

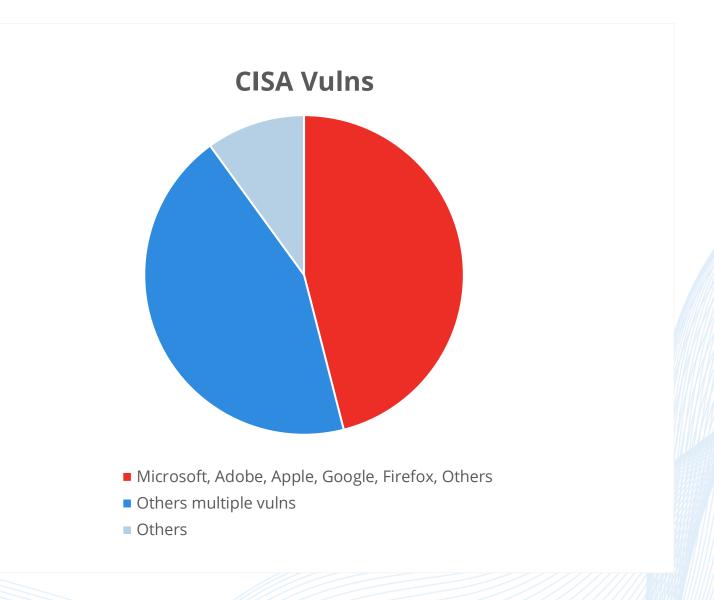




Automation is Keyfor Successful Risk Reduction



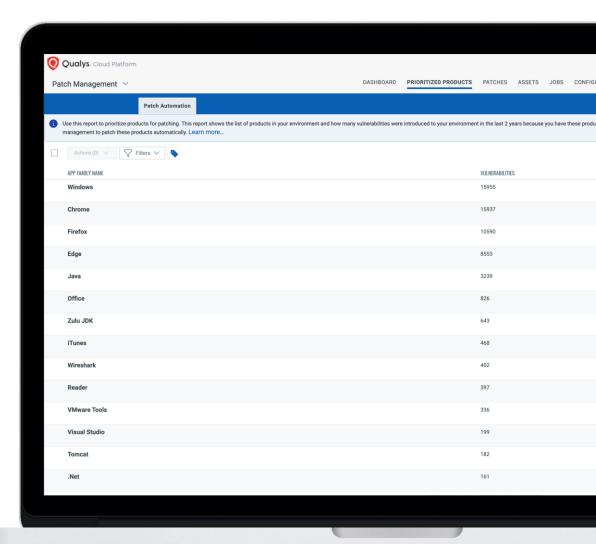
Start with the Low Hanging Fruits





Smart Automation

- Risk Based Automation
- Automate where it make sense from operational perspective
- Test and automate where needed



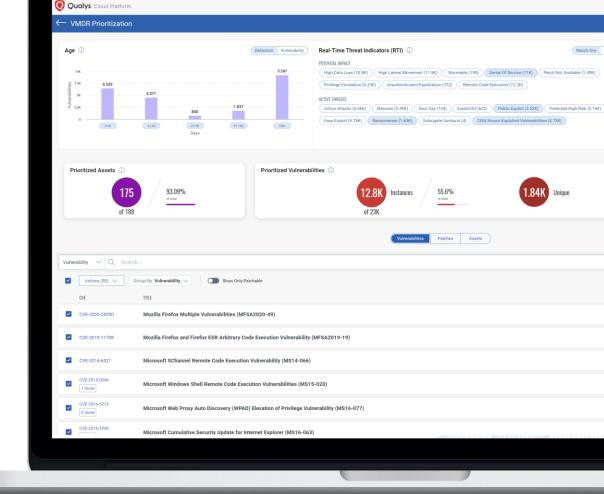
TruRisk Based Automation

Remediate riskiest vulns

Block ransomware before it starts

Focus on active attacked vulns

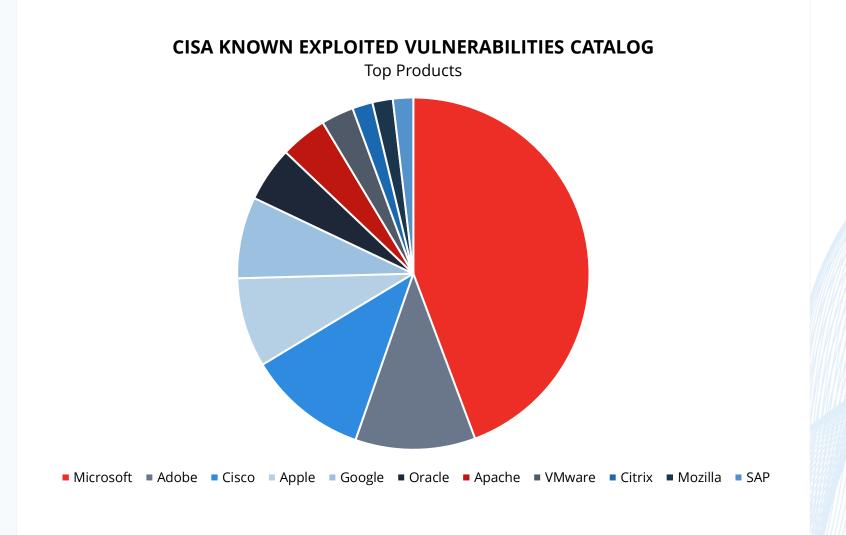
Etc.



Risk is Everywhere

Out-of-the-box support for patching Windows OS, Linux, macOS and 3rd party applications

Patch any device
anywhere AND
automatically where it
makes sense





Automation is Key



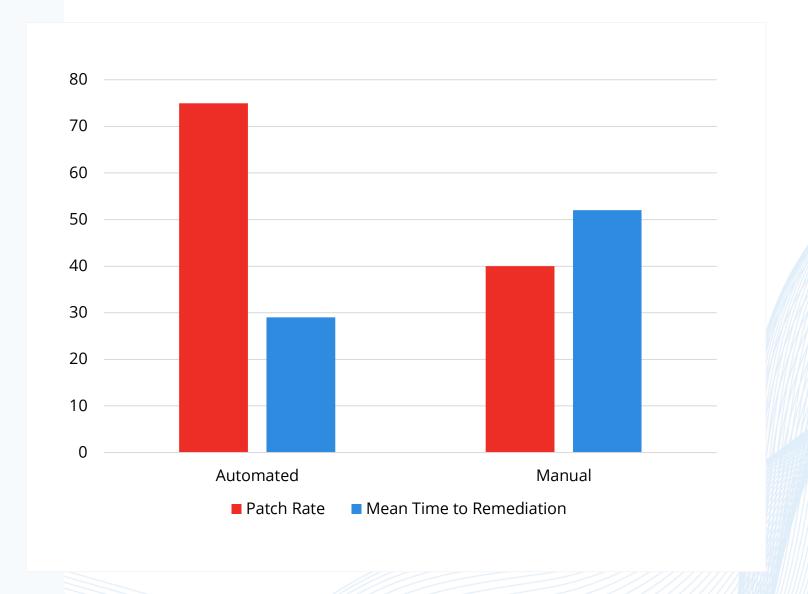
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Improvement in Patching Rates



43.1%

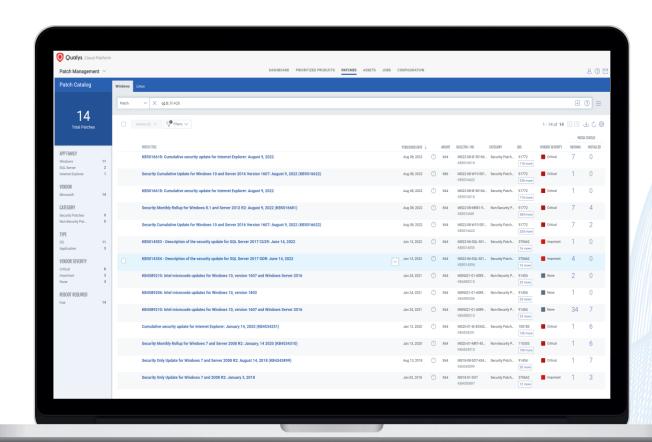
Improvement in MTTR Speed



Vulnerability # Patch

Save your IT time – automatically map vulnerabilities to the right patches and configuration changes required for remediation!

Prioritize what to patch based on real risk reduction



IT & Security Teams Harmony

- ✓ Unified view across VM & IT
- Single source of truth increase collaboration and efficiencies in what to remediate
- Support all IT patch deployment workflows
- RBAC for "separation" where needed
- Complements your SCCM/WSUS where needed

Bridge the Gap between Security & IT Teams



Roadmap

What's Been Delivered. What's Around the Corner

Q4, Q1 2022/2023

Remediation on Any Device

- NEW: MacOS (OS and 3rd party), Alma, Ubuntu, Debian, Oracle Linux, SUSE.
- Business reports and improved operational reports
- Linux & Mac patch automation
- Automated Phased patch deployment

ServiceNow Integration

 Create change tickets based on open vulns and remediate directly from ServiceNow

Coming in 2023

Risk-Based Product Patching

Focus on patching products that reduce most risk

Cyber Remediation Insights

 Actionable recommendations on how to best fix vulnerabilities

Remediation Library

Qualys generated content to fix vulns without a patch

Reporting

Further improve business and operational reporting

2023 and Beyond

Virtual Patching

Temporarily protect assets that cannot be patched

Pre/Post Actions Library

- Manage pre/post actions in libraries
- Import actions from Qualys "canned" library

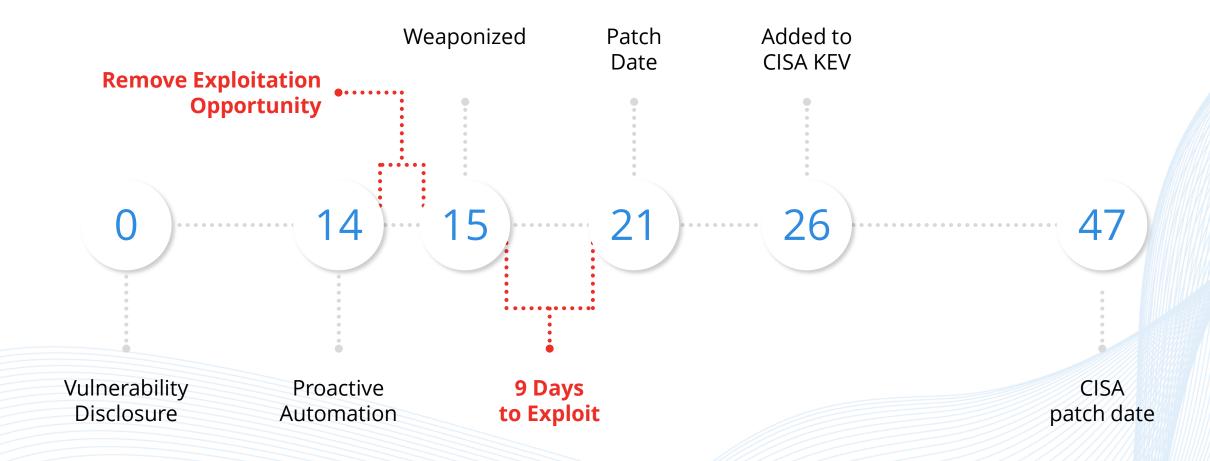


Real World Risk Reduction - Customers

- 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%

Ideal Vulnerability Lifecycle

Get More Security



Download:

2023 Qualys TruRisk Research Report





https://www.qualys.com/forms/tru-report/

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Customer Proof Point Slide

