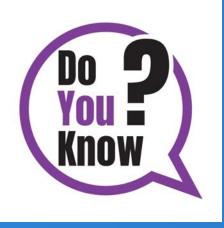


Attack Surface Management: The Crucial First Step in Controlling Your Risk



Kunal Modasiya

Vice President, Product Management Attack Surface Management, Cloud & Container Security, Web App & API Security



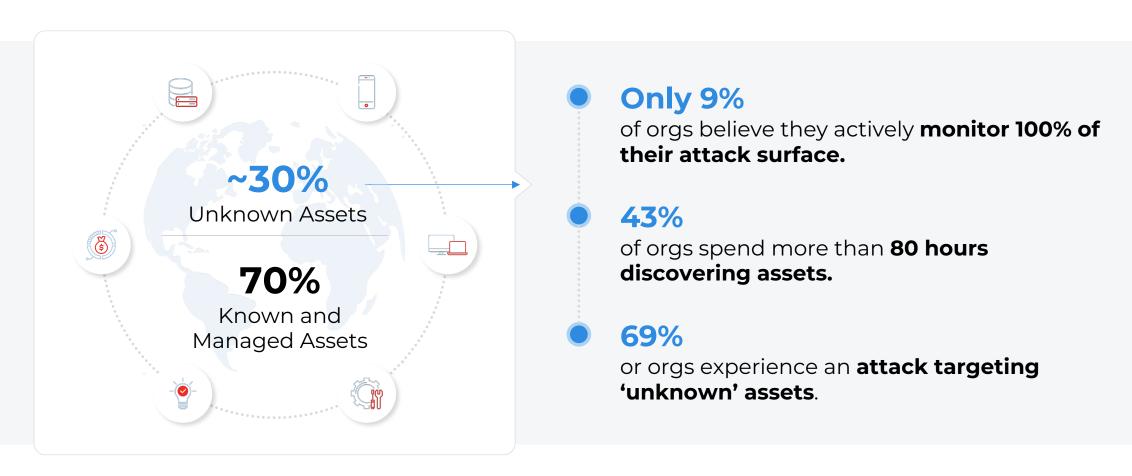
How many assets you have?

The Crucial First Step in building
Attack Surface Management Program
is knowing all your assets.



Impact of Unknown Assets

Not Known to Your VM, But Known to Attackers



Success Formula

For Your Attack Surface Management Program

01

Discover and inventory **ALL** assets with **business** context

Monitor cyber risk with toxic 2 Combinations beyond CVEs

03

Operationalize with IT systems to remediate faster

Outcomes

- Meet compliance requirements (FISMA, FEDRAMP, DORA, PCI, etc.)
- Set the foundation for actionable cyber risk management across your environment

Asset Management, CAASM, EASM...

Multiple consoles to do the job?

IT Asset Management & CMDB

- Known internal assets
- Great source for IT use cases (Warranty, licensing, etc.)
- Business Context: who owns/ manages assets
- Does not have Cyber Risk context
- × Limited discovery & coverage

Cyber Asset Attack Surface Management (CAASM)

- Quickly ingest and correlate asset data from 3rd-party tools
- Confirm security coverage from multiple sources
- × Not real-time
- Data becomes stale
- Data is limited & not always actionable, e.g. can't find log4j, EoL/EoS, etc

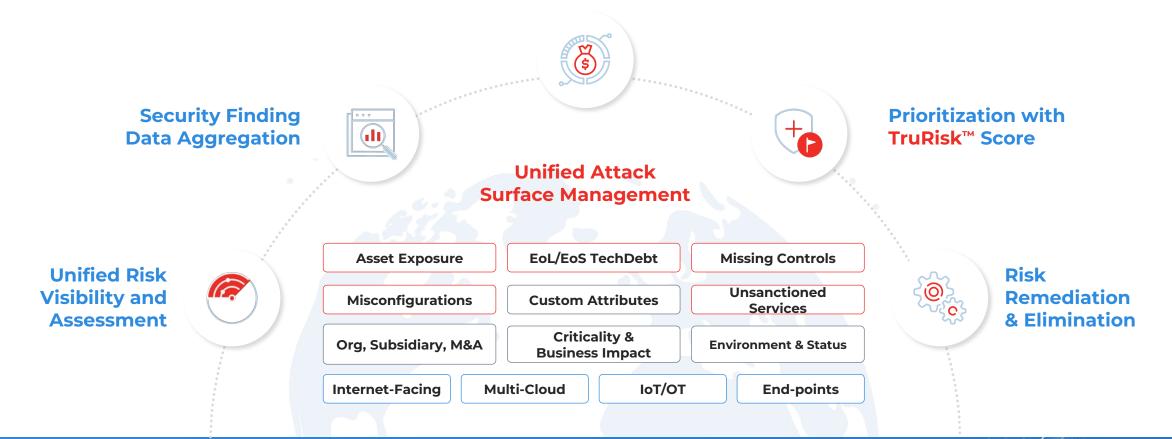
External Attack Surface Management (EASM)

- Discover External Internet-facing Unknown assets
- Attribute assets to your different Subsidiaries and M&A
- List of CVEs and misconfigs
- × Noise and false-positives
- Additional cost to correlate and integrate with your VM Program

Challenge: Disjoined portals, no single view of risk ...and increased TCO

One Platform for Centralized Risk Management

Enrich & Contextualize for Cyber Risk Quantification



Qualys CyberSecurity Asset Management

Purpose-built for Cybersecurity teams for Unified Attack Surface Program

External Attack Surface

Attacker outside-in perspective

Continuously monitor internet-facing digital footprint to discover unknowns

Attribute assets with confidence to Subsidiaries & Lines of Business

Accurate risk prioritization with market-leading vuln detection, threat intel and toxic combinations







Internal Attack Surface

Defender inside-out perspective

Discover Cloud, On-prem, Data center, IT, OT/IoT and Rogue Assets

Maintain asset relation with Business Entities & Criticality to **drive accurate Risk Prioritization**

Accurate risk assessment with missing security controls & tech debt increasing asset's risk

Operationalize with IT tools to orchestrate remediation

Respond to Compliance Audits with out-of-box playbooks

Consolidate and reduce TCO!



External Attack Surface Management (EASM)

Outside-in Attacker's View

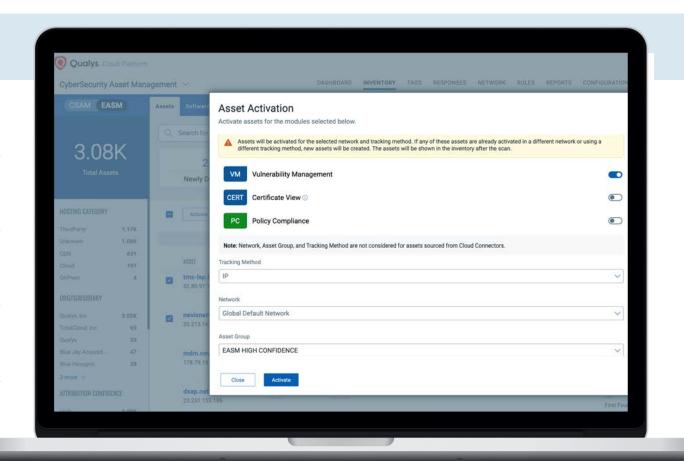


External Attack Surface Management (EASM)

Attackers' View – Outside-in perspective

Real-time Attack Surface Monitoring

- Discover '**Previously Unknown**' internet-facing assets
- Monitor Cyber Risk for M&A Entities and Global Subsidiaries
- Identify & remediate security gaps and misconfiguration issues
- Continuous monitoring: Be alerted when unknown domains & subdomains are found
- Operationalize asset data with One-click into VM, WAS, Patch, ITSM & SOC



Patent-pending EASM Discovery, Attribution & Risk Scoring

United States Patent

Patent Pending: 18385892



SYSTEM AND METHOD OF DISCOVERING EXTERNAL ATTACK SURFACE BASED ON IDENTIFICATION DATA

User Input: Org / Top Domain Name

1

Organization Name Lookup

EASM Catalog validates Org & Domain

2

Subsidiary Enumeration

Fetch all subsidiaries & acquired companies

3

BGP lookup

Query **BGP ASN Catalog** for related orgs and Netblocks.

4

Horizontal **Enumeration**

Query **Whols** for **primary domains** of Parent Org and Subsidiaries.

5

Subdomain Enumeration

Query Whols, to find sub-domains of each primary domains

6

DNS Lookup

Resolve all domains and subdomains to IP Addresses 7

Scan

Scan by resolved **IPs**

crunchbase





















Business Outcomes

With native, built-in Qualys EASM

36%

More assets discovered

Remove Blind-Spots

Find 30-40% unknown internet-facing assets with high fidelity and attribution confidence scores.

60%

Reduction in false positives

Accurate Risk Assessment

Leverage Qualys' market-leading Scanning to focus on critical, confirmed vulnerabilities while reducing noise. **3X**

Faster Remediation

Operationalize Remediation

Fully integrated with CMDB & IT Workflows / ITSM to accelerate investigation, ticketing and significantly reduce MTTR.

Internal Attack Surface Visibility with Business & Cyber Context

Inside-out Defender's view



Focus on Use Case and Progressive Discovery



Extending the Power of Qualys Agent

to Discover Unmanaged Assets

Connect for a LIVE DEMO SSID: QSC Americas / QSC Americas 6E

Password: QSC_2024



CSAM with Cloud Agent Passive Scanner (CAPS)

Enables already-deployed Qualys Agents to discover unmanaged devices in real time



Complete Internal Attack Surface Coverage

Completes your inventory risk program with visibility to IoT devices, unauthorized cloud instances and any network devices



Lays the Foundation for Zero Trust Security Architecture

Proactively identifies in real-time devices connected to the network that are not authenticated, missing security agents, or otherwise, untrusted.



Fast-tracks CMDB Accuracy and Coverage

Correlates discovered assets to the configuration management database (CMDB), enabling IT with comprehensive visibility

Extend your Inventory with Connectors

Integrating with Key IT Tools



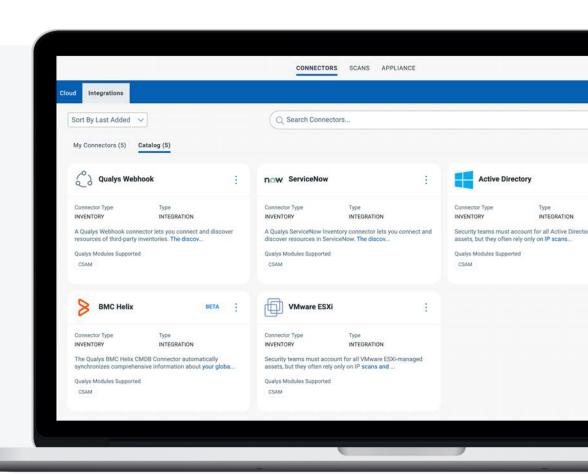
Find Assets Missing in Qualys

Completes your inventory risk program with visibility to IoT devices, unauthorized cloud instances and any unmanaged devices, while integrating with VMDR & Compliance assessment program with one-click.



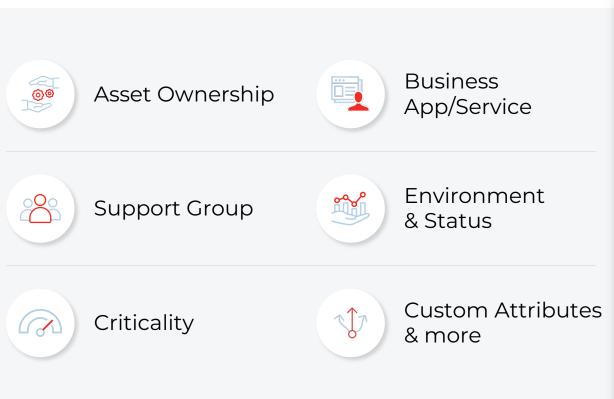
Automate VM/PM Workflows

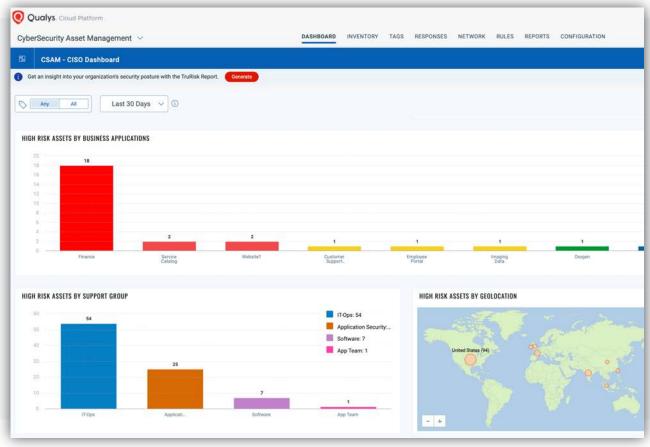
Import key attributes, such as Business Units, Groups, virtual machine labels & custom attributes, to automate vuln prioritization and patch management.



Enrich Asset with Business Context

To drive accurate Risk Scoring & Assessment





Inventory Risk Assessment

With Risk Factors Beyond Vulnerabilities

- Tech Debt (EoL/EoS)

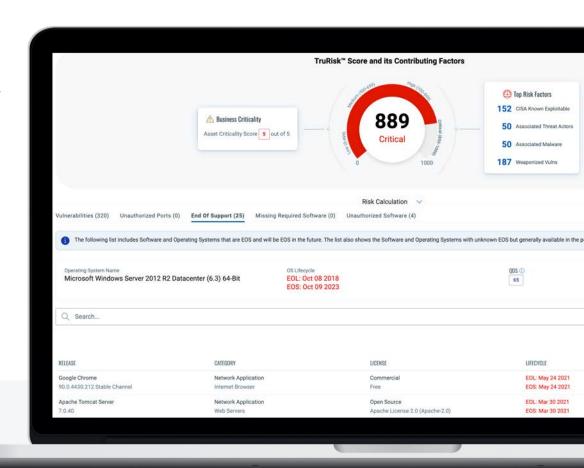
 End-of-life and end-of-support to
 - End-of-life and end-of-support tech contains unpatchable vulnerabilities. Damage multipliers from high-profile attacks such as log4shell & WannaCry
- Risky or Unauthorized Ports

 Misconfigured internet-facing ports can expose backdoors to the environment.
- Missing Security Controls

 Identify missing EDR agents or other required IT/Security software to mitigate risk proactively.
- Unauthorized Software

 This software shouldn't be in the environment. In addition, 40% of unauthorized software is EoL/EoS.

CSAM includes "toxic combinations" in TruRisk



Align Security and IT Ops for Faster Remediation



Engage with Every Key Stakeholder

To Drive Business Outcomes



Measure cyber risk

with a single source of truth for asset data, criticality, and key risk indicators.



Communicate cyber risk

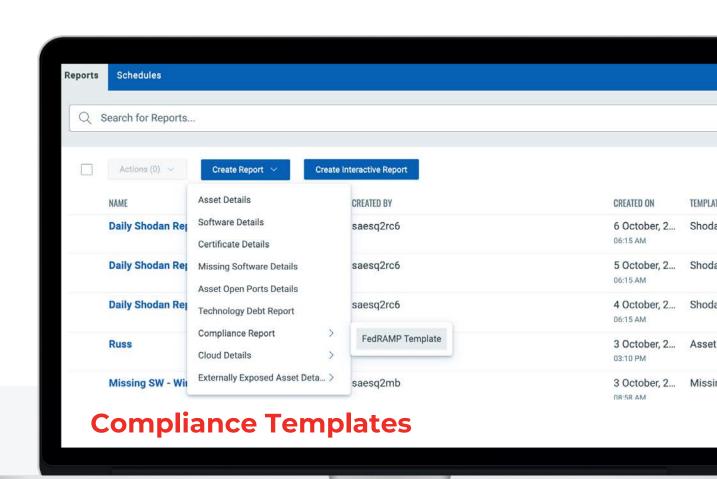
to all stakeholders, including SecOps teams, IT teams, executive stakeholders, and compliance auditors.



Eliminate cyber risk

with a fully-integrated approach through the Enterprise TruRisk Platform and CMDB, ITSM, SIEM tools, etc.

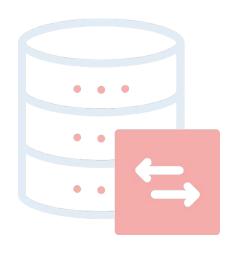
Provide value to all stakeholders with flexible reporting & tracking



Keep Your CMDB Up-to-Date

To Align Security and IT Ops Teams







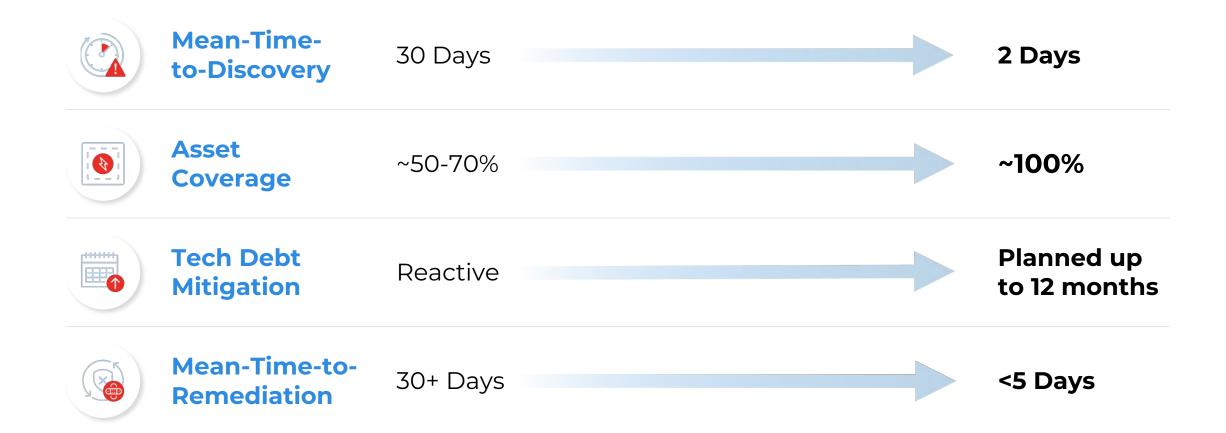
Eliminate cyber risk. Eliminate business disruption ...and Fix your Broken CMDB!

Driving Business Outcomes



Prioritize and Reduce Attack Surface Risk Exposure

Drive business outcomes and ROI



Positive Business Outcomes

Drive business outcomes and ROI



Quickly meets and remediates <u>PCI-DSS requirements for inventory</u>, end-of-life, unauthorized software, and more



Reduced their MTTR (mean-time-to-remediate) by half, automating <u>risk-based</u> <u>prioritization and ticketing</u>



Reduced tech debt with real-time **EOL/unauthorized software** tracking



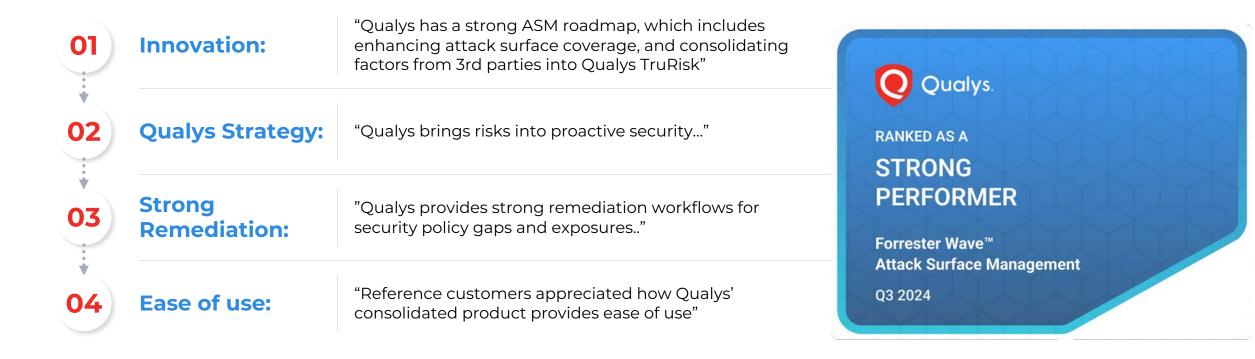
Saving 365 person-days each year on <u>asset/software discovery</u> and management



Uses CSAM to continuously track **FedRAMP compliance** of their cloud infrastructure

Qualys Ranked as a "Strong Performer"

Among Top Vendors in Forrester Wave™ for ASM



"Qualys is a good choice for existing Qualys customers or users that are prioritizing remediation capabilities."

Demo Time

Seeing is believing....









Mike Orosz CISO

About Vertiv

Leading provider of equipment and services for data centers

Founded: 1965 as Liebert Corp; 2016 Launched as Vertiv

Headquarters: Columbus, Ohio (global presence)

Employees: 27,000

Revenue: \$6.9B

Meeting the world's accelerating demand for data – with passion and innovation



Critical Requirements for Attack Surface Management



Visibility across complex, hybrid IT environments must be persistent



Dynamic nature of cybersecurity threats demands rapid identification – Unprotected



EOL/EOS technology tracking is a core element of proactive risk avoidance



Unauthorized software detection must be near real time



Blind-spots unintentionally occur but can be remediated



How We Use CyberSecurity Asset Management?

- **(**
- Complete asset and software visibility across our hybrid environment

- **⊘**
- Accelerated, proactive detection of **EOL/unauthorized software to near-real-time**
- \bigcirc
- Risk remediation prioritization based on asset criticality and business impact
- **(**
- CMDB integrations to operationalize ITSM ticketing, to accelerate patching

Outcomes

- Significantly Reduced MTTR (mean-time-to-remediate)
- Quickly meet SLA expectations and compliance requirements

