



# Unified Attack Surface Management with an Attackers' and Defenders' View

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# A Risk-based Approach to Cybersecurity

All Security Journey Begin with Asset Discovery & Intelligence



# CyberSecurity Asset Management (CSAM)

Internal + External View = Entire Attack Surface

1

## Unified Inventory with Cyber Risk & Business Context



Simplify and improve **vulnerability management**, **AppSec** and **Patch management** programs

2

## External Attack Surface Management



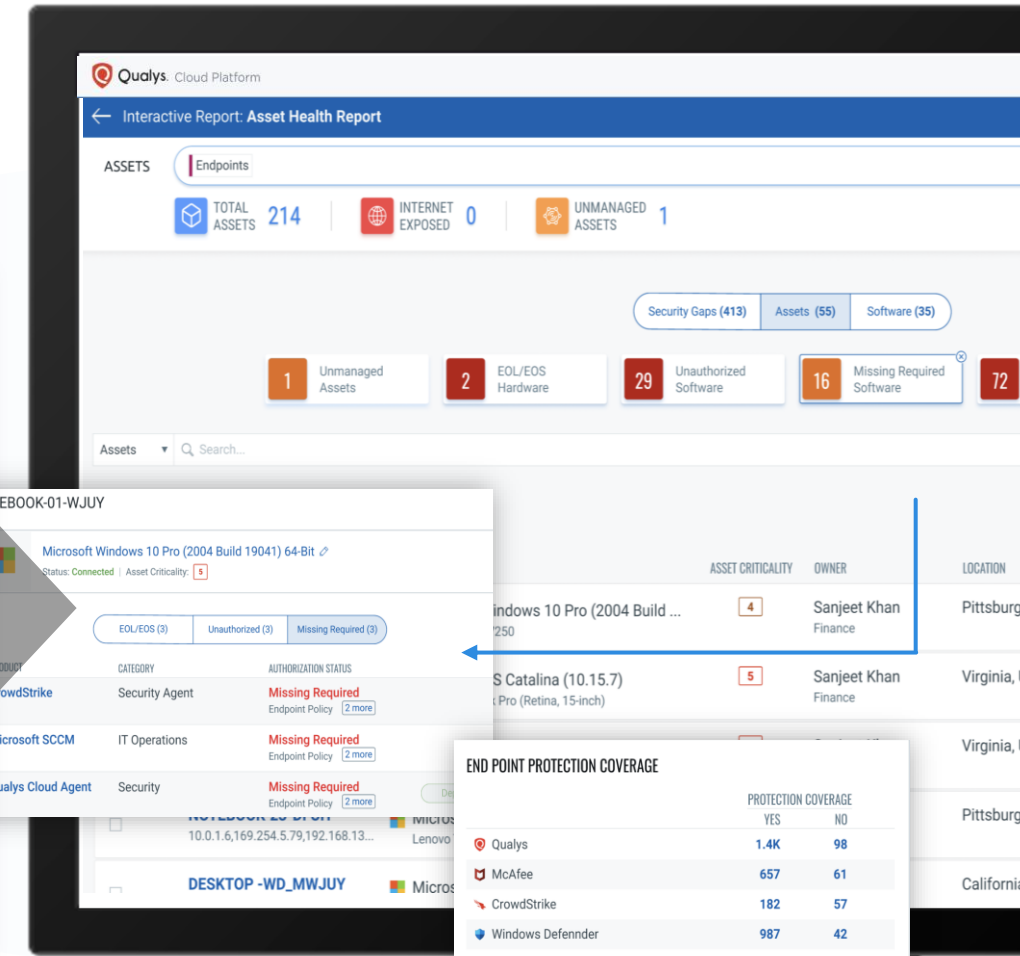
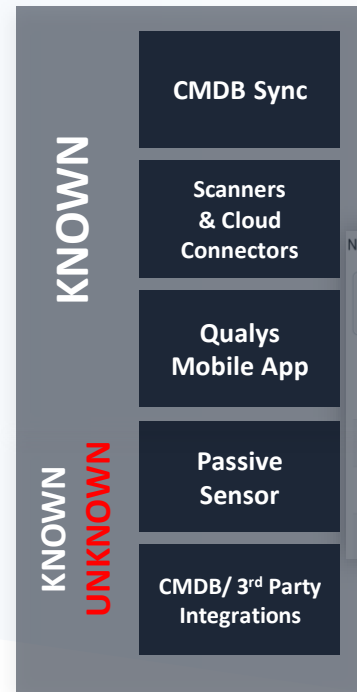
Continuous discovery, risk assessment, prioritization, and remediation of the entire attack surface



# CyberSecurity Asset Management - CSAM

## Defenders' View – Inside-out perspective

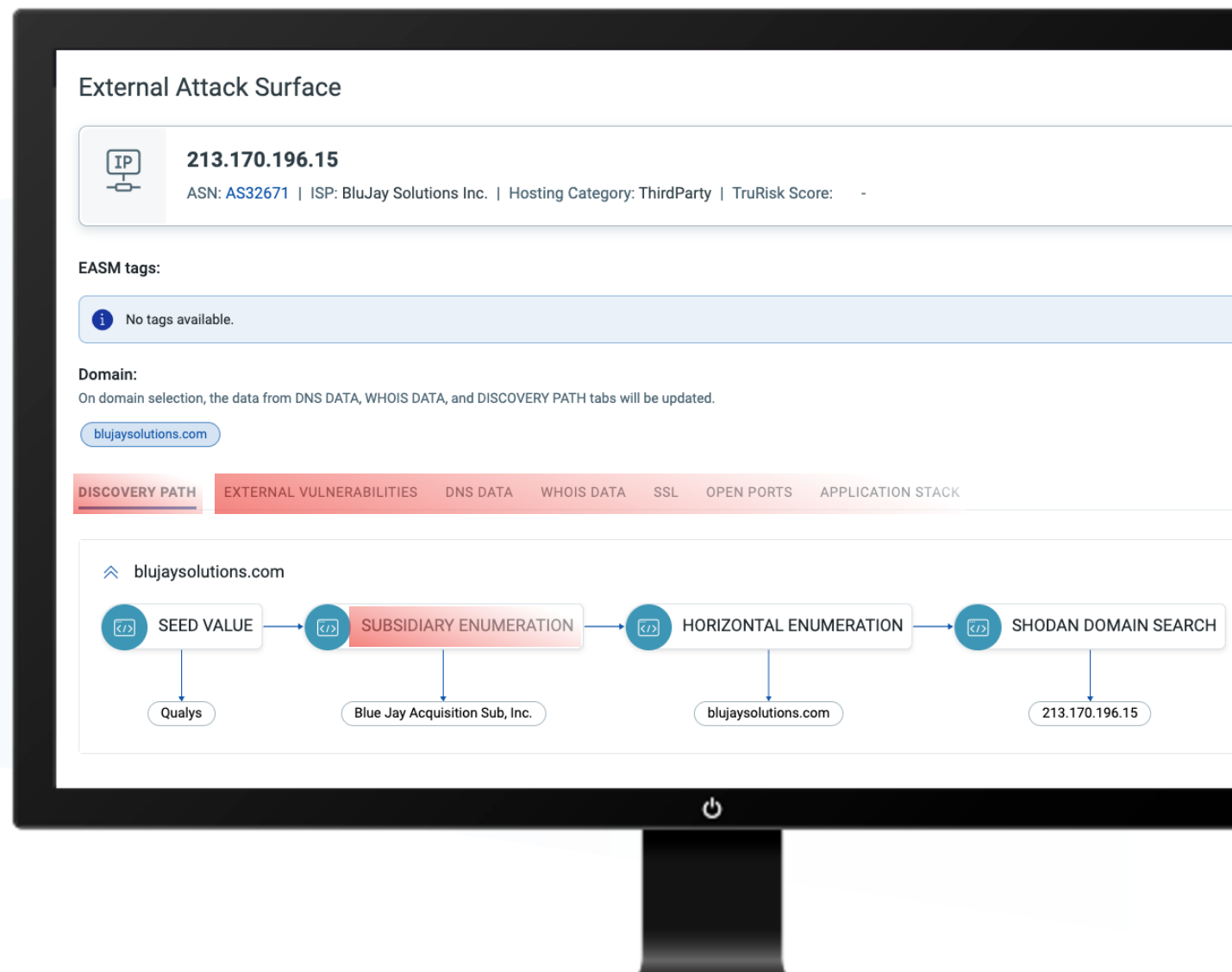
- 1 Asset discovery & inventory w/ business context
- 2 Third-party integrations for asset aggregation and intelligence
- 3 Expose security gaps & monitor asset health
  - Manage EoL/EoS
  - Find Agent Coverage
  - Unauthorized Software
- 4 Risk-based prioritization and remediation workflows with Qualys TruRisk



# External Attack Surface Management (EASM)

## Attackers' View – Outside-in perspective

- 1 Discover '**Previously Unknown**' internet-facing assets
- 2 **Monitor Cyber Risk** for M&A Entities, 3<sup>rd</sup> party vendors, subsidiaries
- 3 **Identify & remediate security gaps and misconfiguration** issues
- 4 **Continuous monitoring - Be alerted** when unknown assets, domains, subdomains are found
- 5 **Operationalize asset data** with One-click into VM, WAS, Patch, ITSM & SOC





# Bringing Together EASM and CSAM

Purpose-built for Cybersecurity and VM/Risk teams

## 1 External Attack Surface Management (EASM)

Attack surface from an **attacker outside-in** perspective.



Discover and continuously **monitor outside-in digital footprint internet-facing assets**



**Natively integrate with VMDR** (or other) for vuln analysis and prioritization



Continuously improve and implement **attack surface management (ASM)** strategies



## CyberSecurity Asset Management (CSAM) 2

Attack surface from a **defender inside-out** perspective.

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



Security, **compliance**, and **Risk-based** prioritization

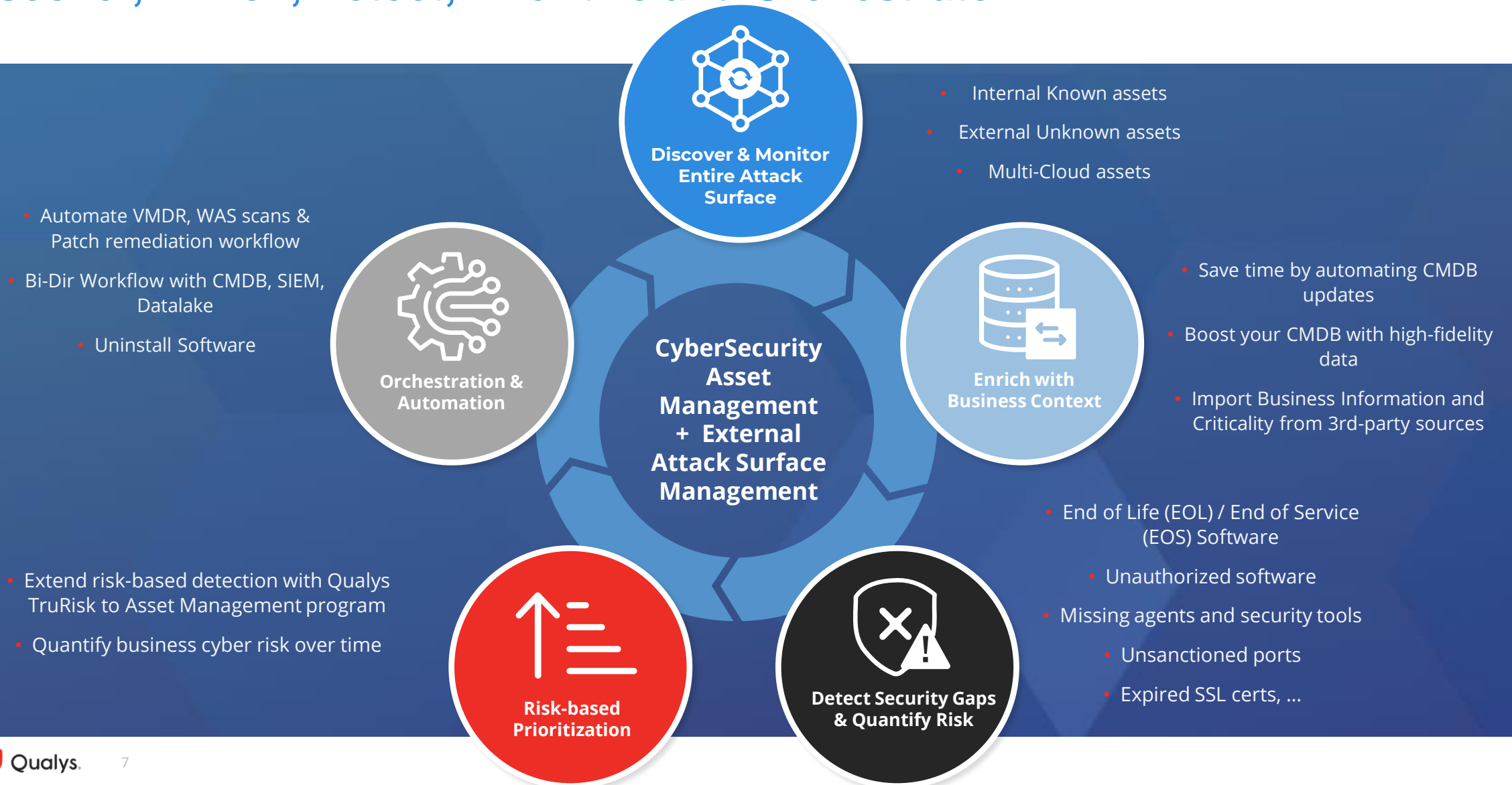


Orchestrate and Automate Workflow across IT and Security



# Continuously Monitor and Reduce Attack Surface

Discover, Enrich, Detect, Prioritize and Orchestrate



# Business Advantage

## Simplified & Optimized Cyber Security with Unified Platform



### No More Siloed Tools

External Attack Surface Management  
IT Asset Inventory for On-Prem  
IT Asset Inventory for Cloud  
IT Asset Inventory for OT/IOT  
Vulnerability Management  
CMDB/ITSM Ticketing



### SecOps & IT Ops Optimization

Removes manual stitching of data across VM, ITSM, CMDB, Patch Mgmt, SOC & GRC tools.  
  
Discover entire attack surface.  
Bi-directional CMDB sync providing business context



### Reduced TCO

Reduced TCO with centralized platform that helps consolidates multiple siloed point products into Unified One-platform-one-agent.



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# Positive Business Outcomes

## Delivering Powerful Results with CSAM



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



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



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



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



Uses CSAM to continuously track FedRAMP compliance of their cloud infrastructure





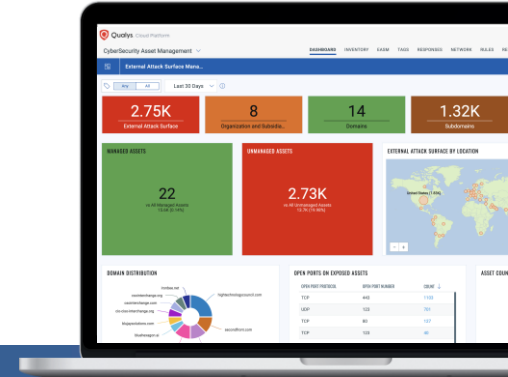
# Get Your External Attack Surface Report

What's Your Risk Posture?



# Why is EASM Foundational?

You Can't Secure What You Can't See



**715+** Customer Sign Up

**~30%** Unknown External Assets

**415+** Active Customers



**~44%** Domains & Subdomains Not Inventoried

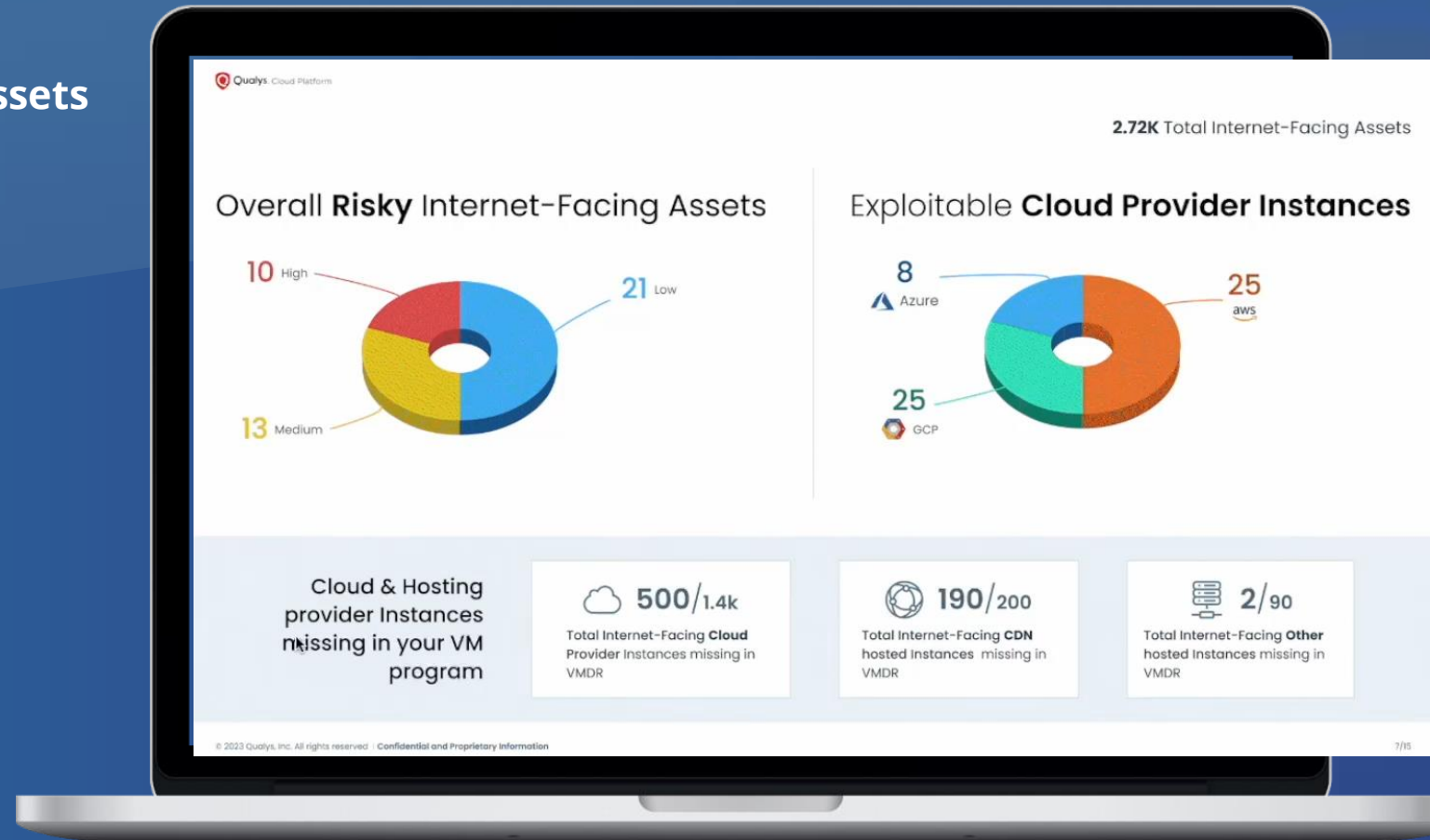
**2M+** # of EASM Assets discovered

**1 of 3** Average Undefined Subsidiaries

# External Attack Surface Report

## Get Yours Now

1. Know your Risk on Internet-facing Assets
2. View Your Attack Surface
3. Prioritize Your Risk Accordingly...



Powered by: 

# Qualys Integrations with Third-party IT and Security Tools





# Risk-Based Prioritization

... with 3rd Party Integrations

1

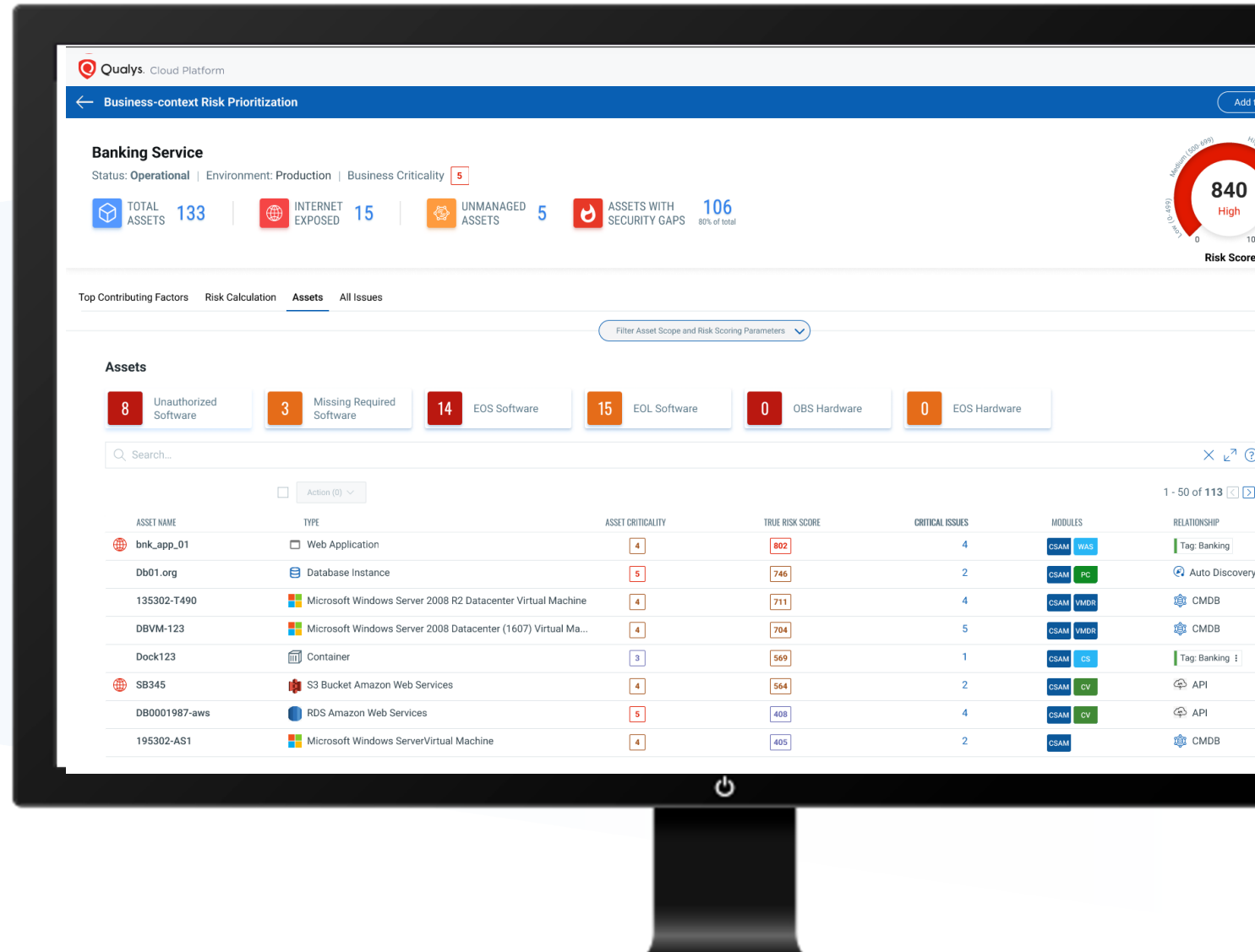
Bring in missing 3rd party assets to Qualys for unified inventory and risk assessment

2

Risk-Based prioritization with 3rd party business context

3

3<sup>rd</sup> Party Connectors for CMDB, AD, Webhook, and Security and IT tools



# Challenges with CMDB Projects

## Bridging the Gap Between IT and Security



### IT Ops

- Laborious, time-consuming task to create & maintain CMDB
- Asset inventory is typically updated manually or through infrequent uploads
- Lack of visibility into the ephemeral external internet-facing assets
- Lack of visibility into all environments (e.g., PCI, OT) creates blind-spots



### Security

- Manual effort in mapping vulnerabilities to CIs, creating, assigning tickets, and tracking progress.
- Time-consuming task to find & correlate asset context with Incident investigation & triage
- Lack of correlated asset, vulnerabilities, applications and business context, creates gaps in risk-based prioritization program

**Gap**

**Severely impacted MTTR**

# Align Security and IT Ops teams

Close Tickets Faster w/ 2-way CMDB Sync



IT Ops



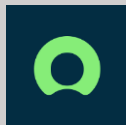
Security

Continuously update asset intelligence to CIs in ServiceNow

- Create and Update CMDB CIs
- Risk Score - Open Ports - Asset Tags
- HW: Make, Model, BIOS, CPU, Memory, IP + NICs
- OS: Name, version
- SW: Name and Version, Unauthorized/Missing
- S/W, H/W and OS Lifecycle data (EOL/EOS)
- EASM details
- Certificates with ownership info
- Improve VM DR-ITSM Workflows with accurately mapping to CI items and with owner

Provide Business Context to Qualys Users for Risk-Based Prioritization

- Asset enrichment in Qualys
- Operational Status
- Department
- Environment
- Owner - Managed by - Supported By - Support Group - Assigned Location
- Business Criticality
- auto-assign Asset risk score
- Assign Tags to Assets



# Reduce MTTR & Increase Effectiveness

Close Tickets Faster w/ 2-way CMDB Sync



## IT Ops

Improve CMDB hygiene with automated correlation and reconciliation of complete asset inventory

Close Tickets 50% Faster

Reduce Ticketing SLA Violations

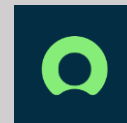


## Security

Reduce Mean-time-to-Remediate/Respond

Reduce Cyber Risk Exposure

Track Success and Improve IT-Security Workflows



# Operationalize your CMDB

In Days. Not Months.

1

## Unified Inventory with Cyber Risk & Business Context

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- ✓ Leverage current Qualys deployment of agents and scans to quickly populate asset inventory within CMDB

2

## Mature your CMDB

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- ✓ With Qualys fill the holes in your CMDB that other tools, such as ServiceNow Discovery or Microsoft SCCM, may not cover for more accurate ticketing assignment and task prioritization

3

## Continuous Asset Enrichment with Qualys

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- ✓ Enrich CMDB with additional asset information from Qualys CSAM, providing actionable insights for external, ephemeral internet-facing assets, EOL software, domains, and more



# Roadmap

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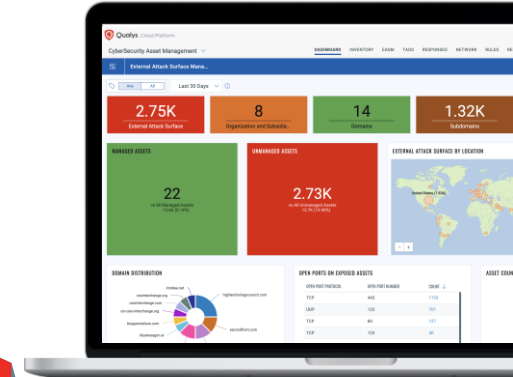


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# CSAM & EASM Roadmap

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



Q4 22

### EASM

- **Enriched Visibility** - Subsidiaries, Domains, Subdomains, M&A org to uncover unknowns
- **Discover Security Gaps** - unsanctioned ports, expiring certificates, vulnerabilities
- **Unified Risk Score** - TruRisk
- One-click VMDR, CMDB Integration
- **Web App Scanning (WAS)** Integration

### ServiceNow CMDB Sync App

- Sync SSL Certificate details to CMDB
- Extend **CMDB with EASM** attributes

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### Risk-Based Prioritization

- Phase -1 TruRisk Prioritization

### EASM

- Free EASM Assessment Report
- Discovery & attribution improvement
- Usability (group by, filter) enhancement

### 3<sup>rd</sup> party Integrations

- BMC Helix - CMDB
- Active Directory
- Webhook API Connector

### ServiceNow CMDB Sync App

- Sync Qualys Tags to ServiceNow Tags
- Sync Custom Attributes as

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### Core features

- Software usage monitoring
- Custom catalog ingestion

### EASM

- M&A and 3<sup>rd</sup> party Risk Assessment
- Lightweight scanner
- Data leakage (password, cloud keys)
- Monitoring open Amazon S3 buckets
- Exposed code repos (i.e. GitHub, Docker)
- External to Internal IP mapping

### 3<sup>rd</sup> party Integration

- VMWare, CrowdStrike
- Azure AD





# Demo

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# Agenda

**01** Event Event Event

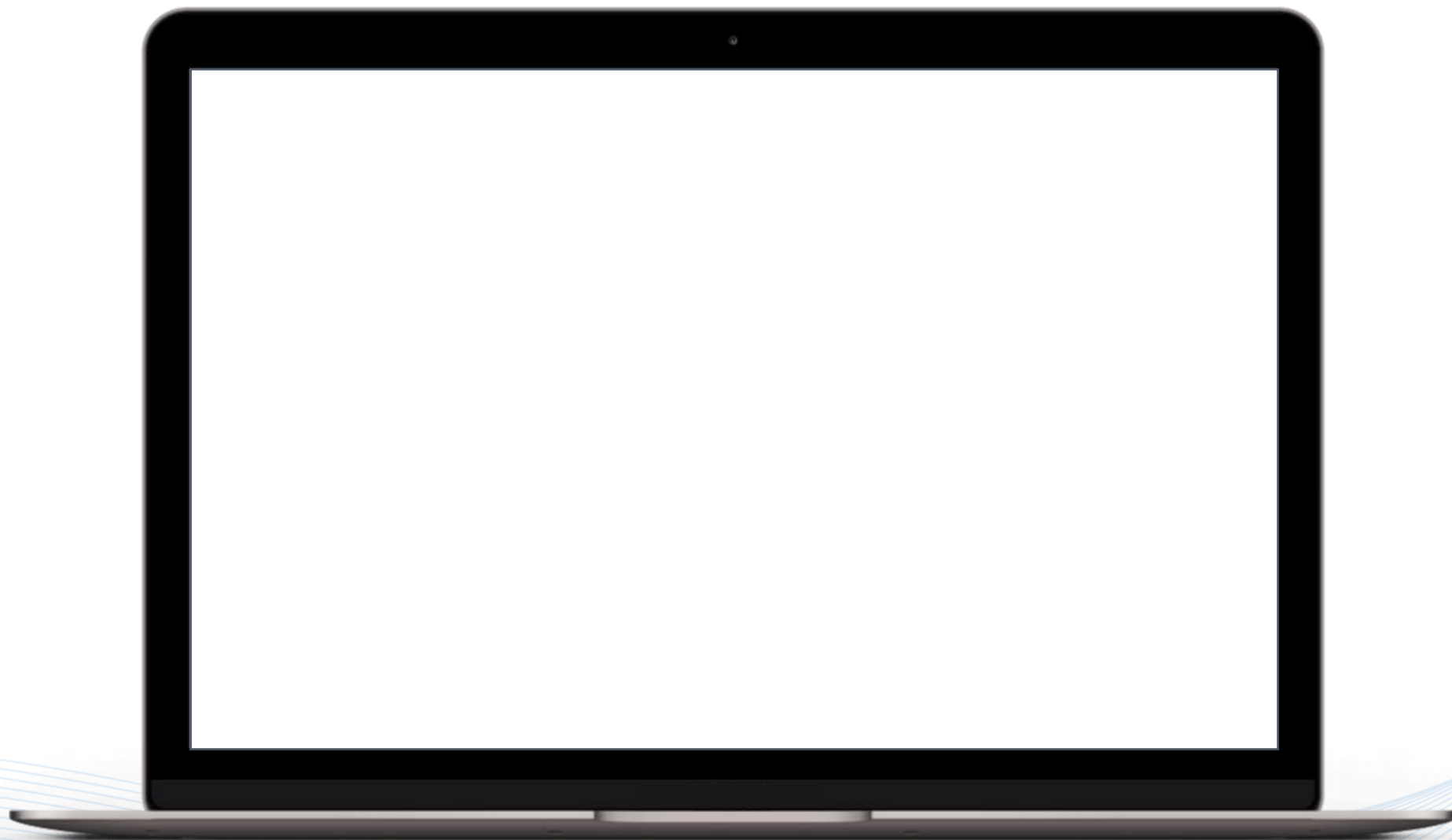
**02** Event Event Event

**03** Event Event Event

**04** Event Event Event

**05** Event Event Event

**06** Event Event Event



# Statistics

**5000** Info info info info

**405** Info info info info

**6000** Info info info info

**500** Info info info info

**1924** Info info info info



# Coming Soon

New ways of Risk-Based Prioritization

3<sup>rd</sup> Party Integration



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