



# Putting the 'M' in Vulnerability Management



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# The State of Vulnerability Management Today

## 01

### Traditional Approaches Falling Short

- ✓ Slow to detect new, exploitable CVEs (**40% increase** in new CVEs in 2024)
- ✓ Complexity of **expanding attack surface** causing disjointed views of risk
- ✓ Lack threat intel and cyber risk context to prioritize

## 02

### Evolving Threat Landscape

- ✓ Time to exploitation is faster than ever (**11.6 days** on average)
- ✓ Cybersecurity community is reactive
- ✓ Exposures on assets unknown to SecOps teams (**70% of orgs** experience an attack on unknown assets)

## 03

### Response is slow and disjointed

- ✓ VM is happening in a silo
- ✓ No universal language of risk across cloud, endpoints, OT/IoT, external assets, etc.
- ✓ Patch and remediation is disconnected from business risk

# Focus on What Matters

## The Vulnerability Landscape

### 2024 CVE Stats:

- Over **40,000** new CVEs disclosed
- Only **245 (0.61%)** have weaponized exploit code

### CISA KEV Catalog:

- **1,351** actively exploited CVEs (**0.48%** of **279,795** total CVEs)

**Most vulnerabilities aren't actively exploited.**

## Real-World Threat - Black Basta Ransomware:

- Targets **62 CVEs**, e.g., Log4Shell (CVE-2021-44228), Follina (CVE-2022-30190)
- Exploits a small, high-impact set of vulnerabilities

**Attackers prioritize exploitable weaknesses.**

# Fast Weaponization



Attackers have an 11-day advantage

30.6 Days

Mean Time to Remediate

57.7% Remediated Vulnerabilities

19.5 Days

Time to Weaponize

11.1 Days

Exploitation Opportunity

Not only are attackers an average of **11 days faster** to exploit vulnerabilities than defenders are to patch them, but over **40% of weaponized vulnerabilities go unpatched.**



National Cyber  
Security Centre

5 Days

External

14 Days

Internal

*Following NCSC recommendations  
would even the odds against attackers.*

3 Days

Actual Patch Deployment

**Where's all that remaining time going?**



# How do we solve it?

3 simple steps...

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- 01 Unified inventory with cyber risk context
- 02 Prioritize with real-time threat intelligence
- 03 Orchestrate remediation based on risk

# Unified Attack Surface Discovery

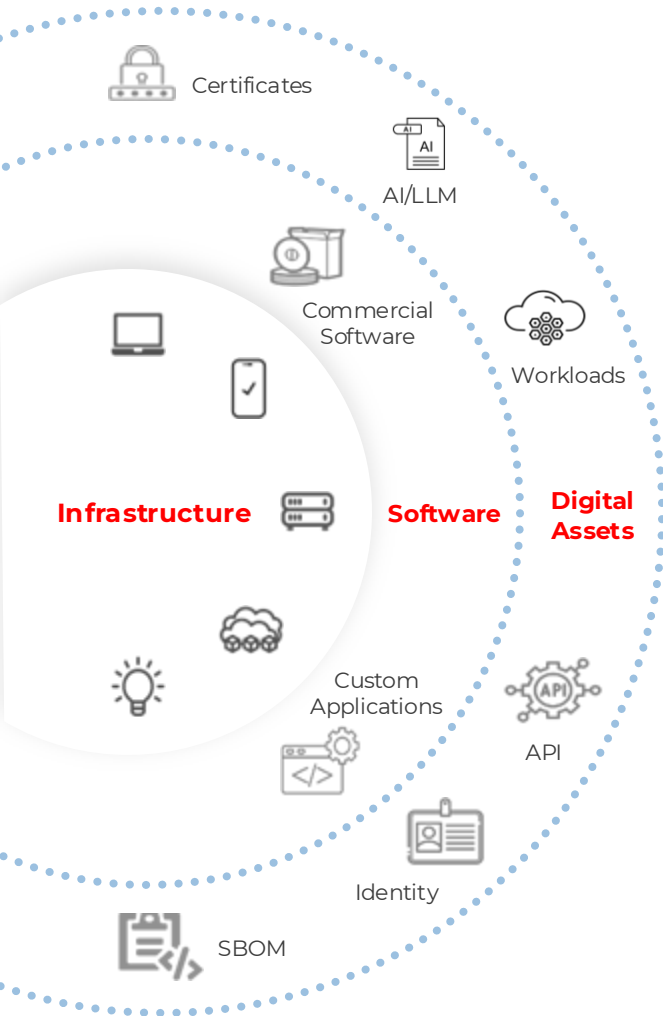
**Build a complete inventory with cyber  
risk context**

**100% Coverage for RBVM program**



**Qualys®**

# Step 0 of Your Unified Risk-Based VM Program



## Cloud Connectors



## Key IT Infra Connectors



## Active Sensors



## Passive Sensors



**Cyber Inventory with  
business and risk context**

**Internal and External  
Attack Surface**

**Integrated w/Risk  
Management Program**

# Patent-Pending EASM

With Real-time Discovery, Attribution & Risk Scoring

01

## Discover 'Previously Unknown' internet-facing assets

- Domains & Subdomains, parked domains
- Websites, Certificates & APIs
- IP Addresses & Cloud Services

02

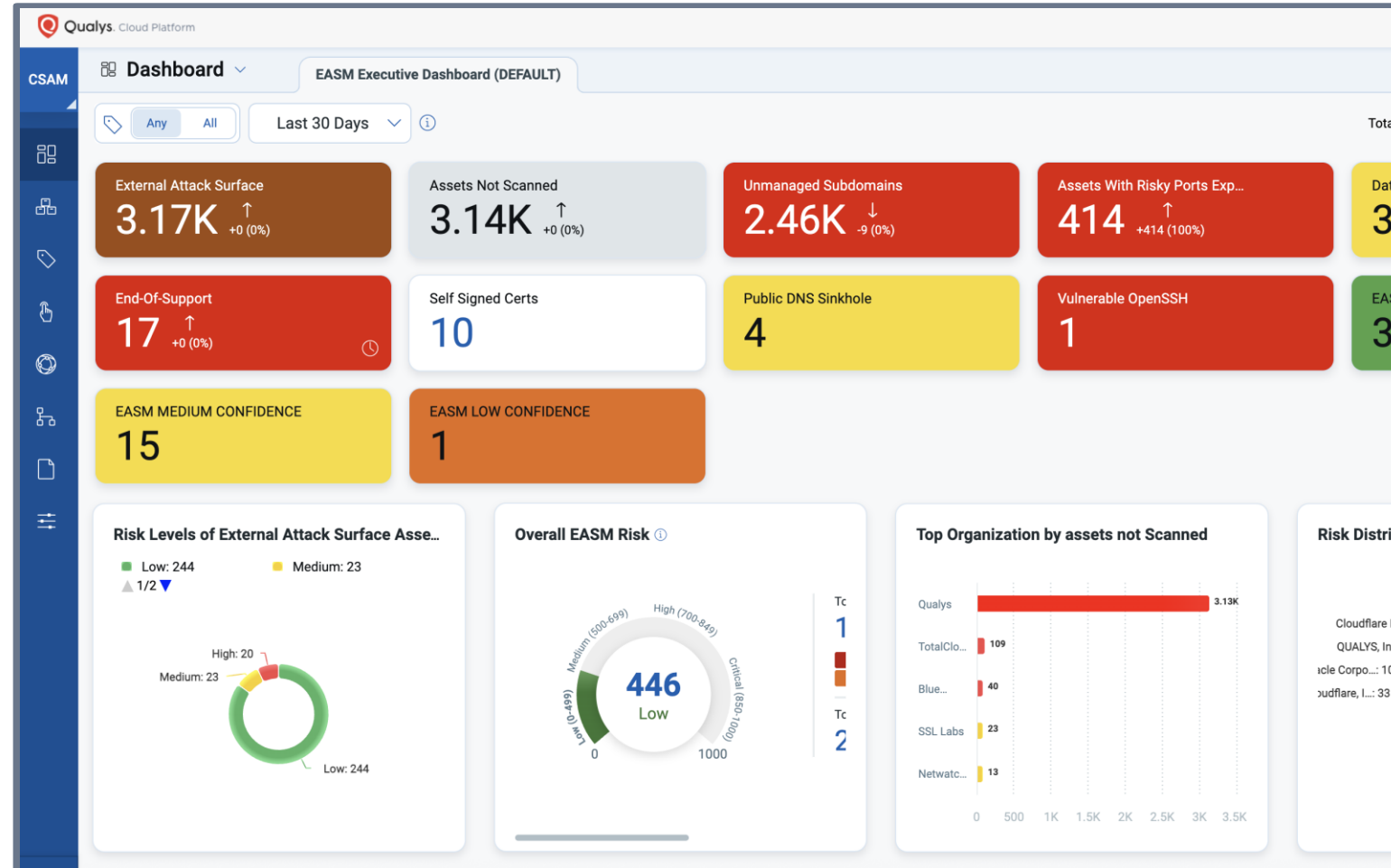
## Monitor Global Subsidiaries and M&A

- Third-Party Risk Visibility
- Attack Surface Mapping w/ Attribution Score
- Business Entity, DNS, WHOIS, ISP, Certificates
- Look-alike & typo squatting

03

## Detect & Prioritize Risk

- Exploitable Vulnerabilities
- Risky Unsolicited Ports (SSH, RDP, ..)
- Exposed Databases and Admin Consoles
- Weak Certificates
- EoL/EoS software and more



Qualys | De-risk Your Business



# Comprehensive TruRisk Insights

## With Risk Factors Beyond Vulnerabilities

- 01

### Tech Debt (EoL/EoS)

End-of-life and end-of-support tech contains unpatchable vulnerabilities.
- 02

### Risky or Unauthorized Ports

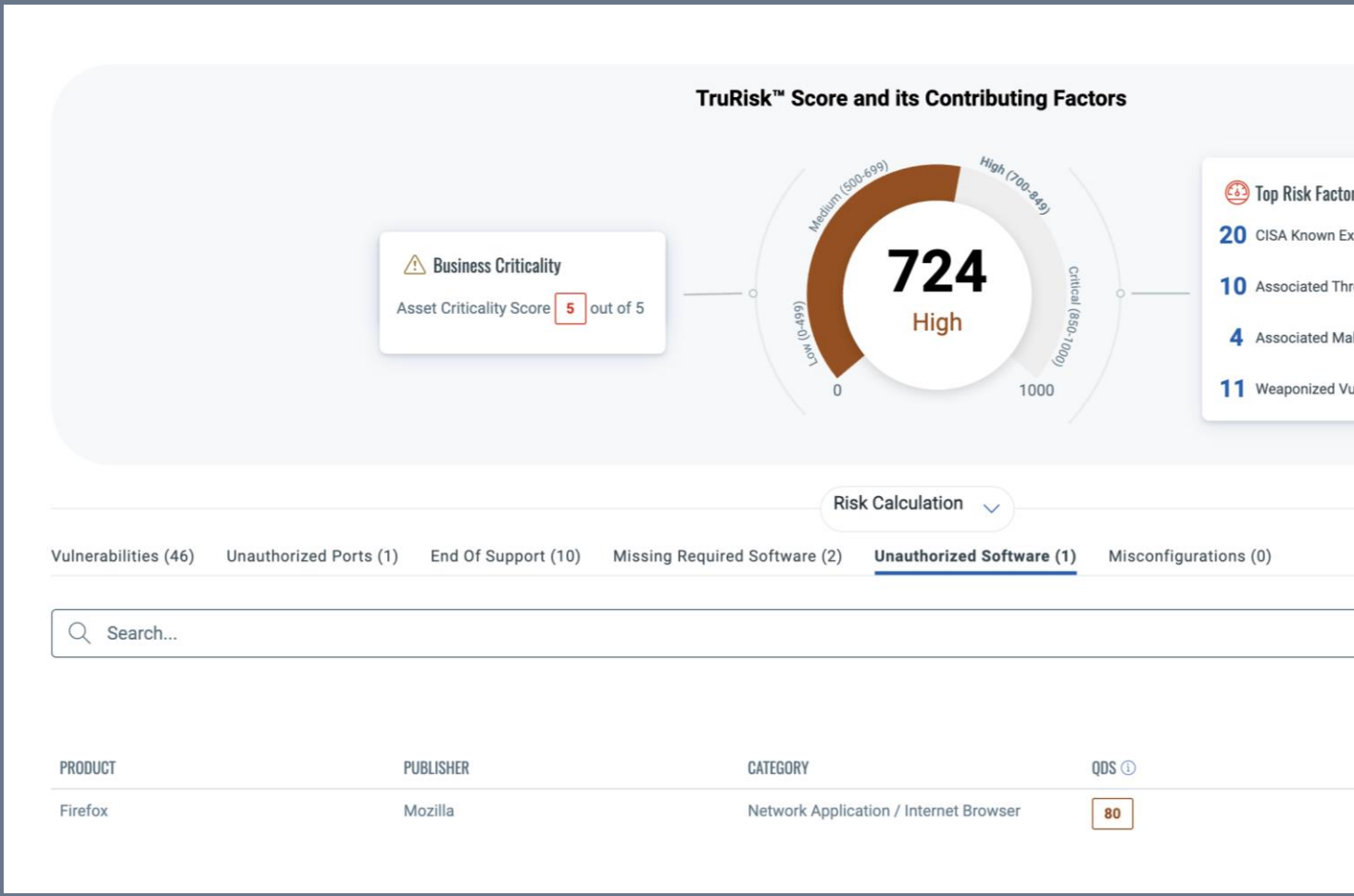
Misconfigured internet-facing ports can expose backdoors to the environment.
- 03

### Missing Security Controls

Identify missing EDR agents or other required IT/Security software to mitigate risk proactively
- 04

### Unauthorized Software

unauthorized software and associated vulnerabilities as a vector within TruRisk Scoring



# Enrich Asset with Business Context

To drive accurate Risk Scoring & Assessment



**Asset Ownership**



**Business App/Service**



**Identity**



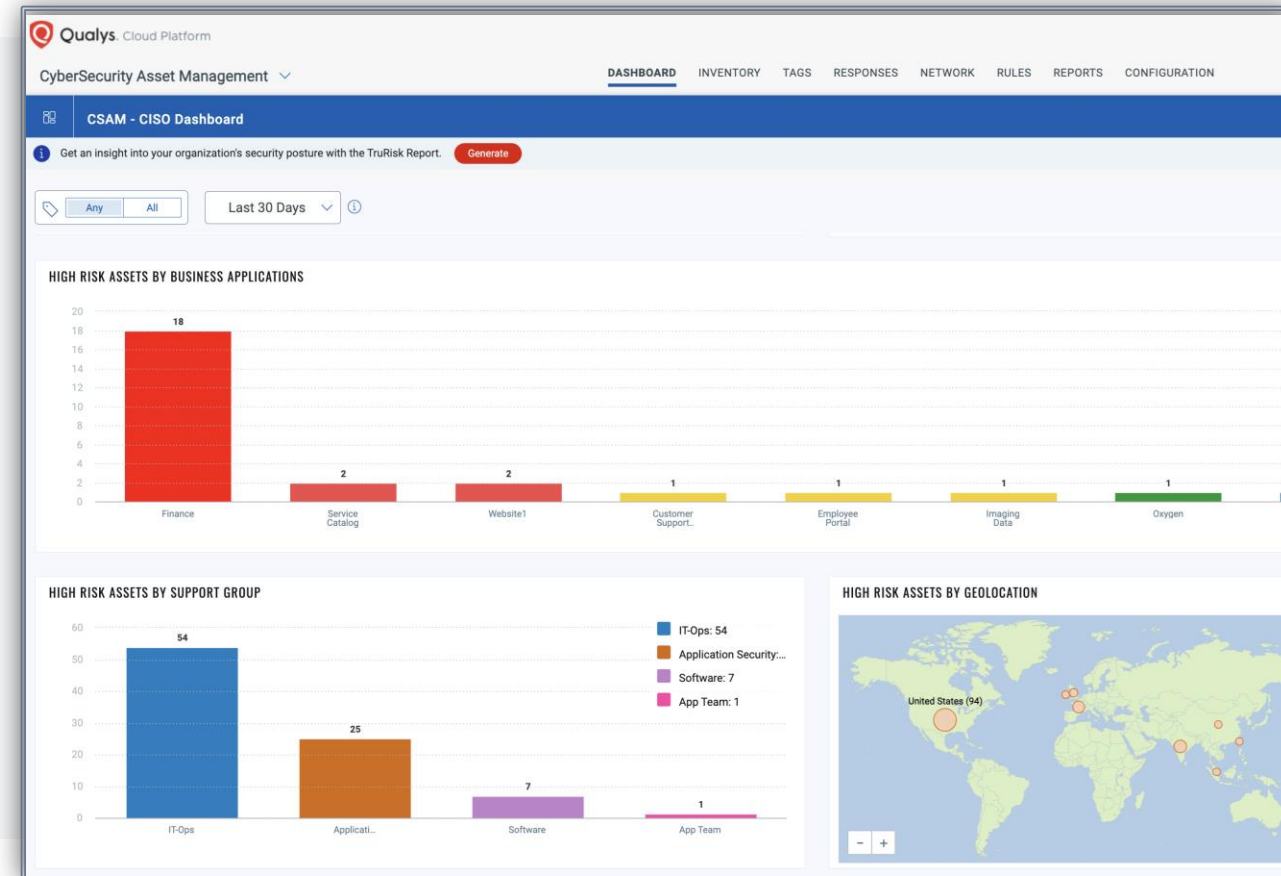
**Environment & Status**



**Business Criticality**



**Custom Attributes & more**



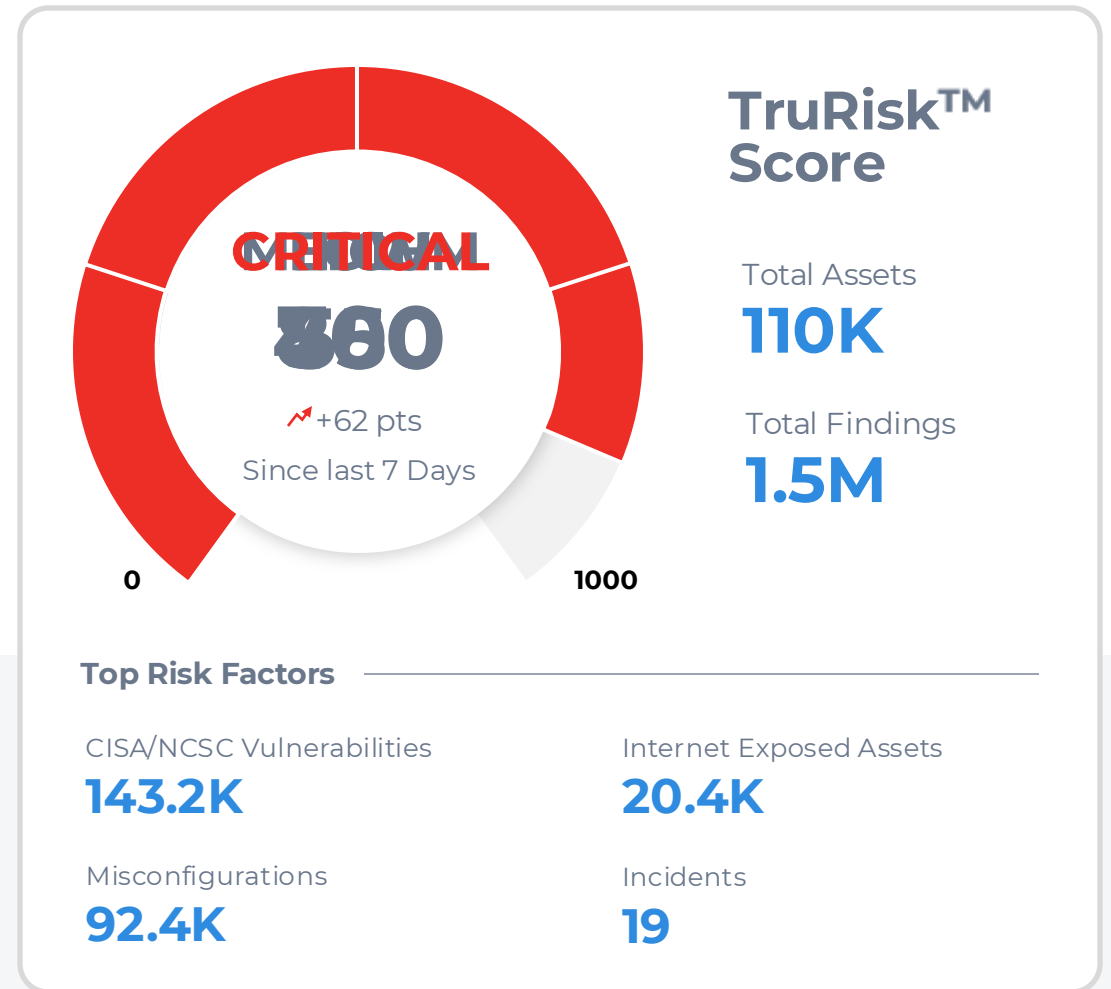
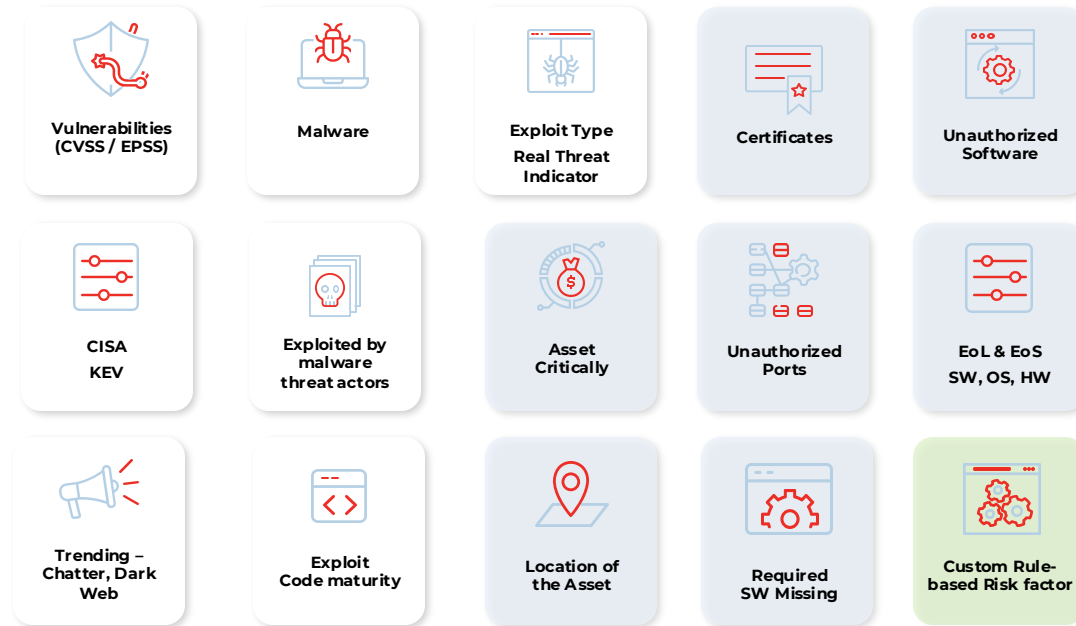
**DE-RISK YOUR BUSINESS**

# Risk Prioritization

with business context  
& real-time threat intelligence



# Prioritize Risk with TruRisk™ 2.0



DE-RISK YOUR BUSINESS





# MITRE ATT&CK Matrix Prioritization



## Get an Attacker-centric View

View your top ATT&CK Tactics and Techniques from an **attacker's perspective** and adopt **Threat-Informed Defense** to reduce risk



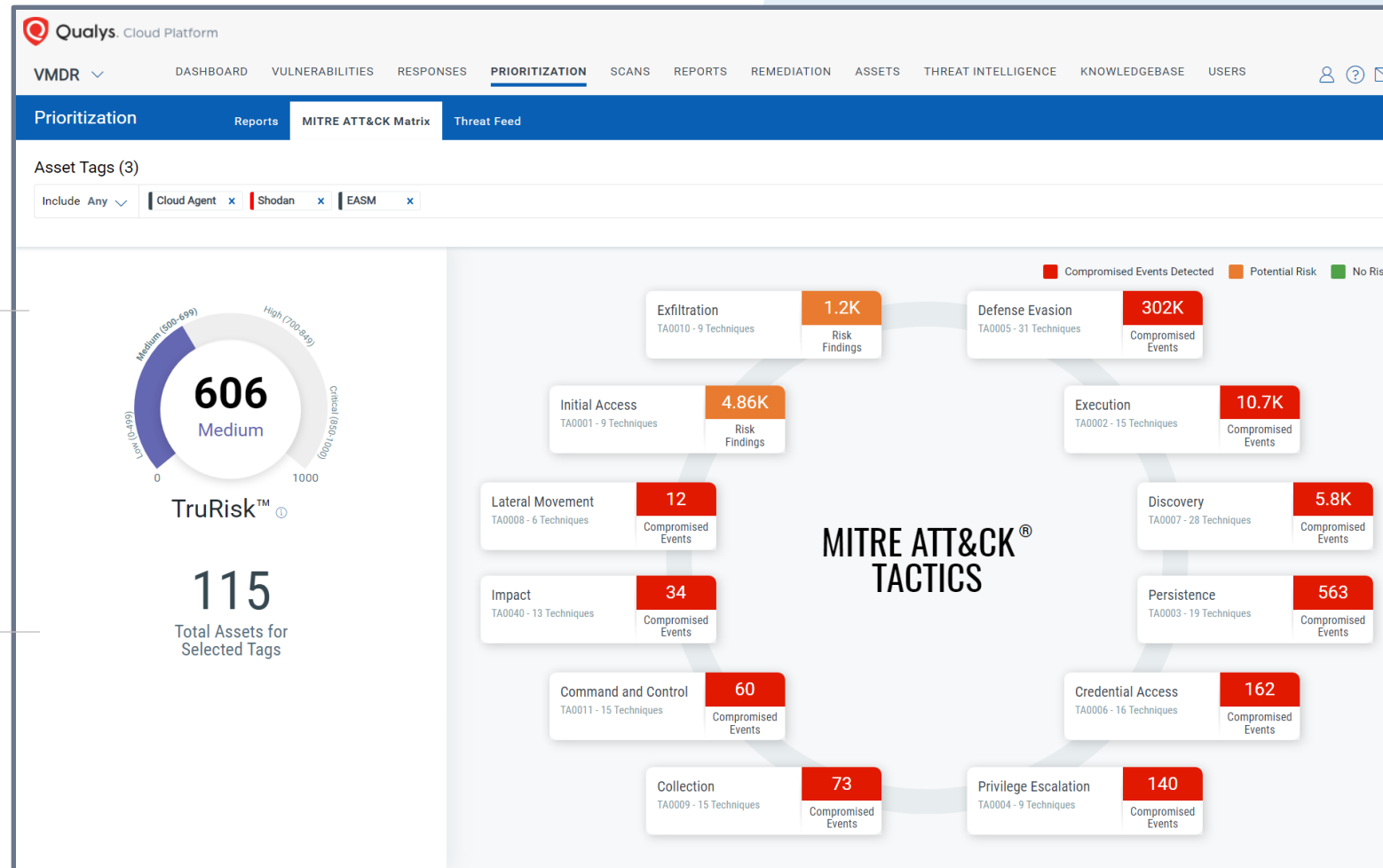
## Holistic ATT&CK View

A consolidated ATT&CK view of **vulnerabilities** from VMDR, **mis-configurations** from PC, **incidents** from EDR, and **asset details** from CSAM (e.g., external-facing asset identification and RDP port details)



## Eliminate Attack Paths

Leverage MITRE ATT&CK insights to identify, prioritize, **eliminate attack paths** and **break kill chains** proactively using integrated Patch Management



# AI/ML-Powered Vulnerability Prioritization



Leverage AI/ML to detect & prioritize critical risk with maximum efficiency

01

## TruRisk: AI-Powered Risk Scoring

Reduces critical vulns by 85%

02

## AI-Powered Threat Detection

Identify threats in real-time with deep learning AI-based detection

03

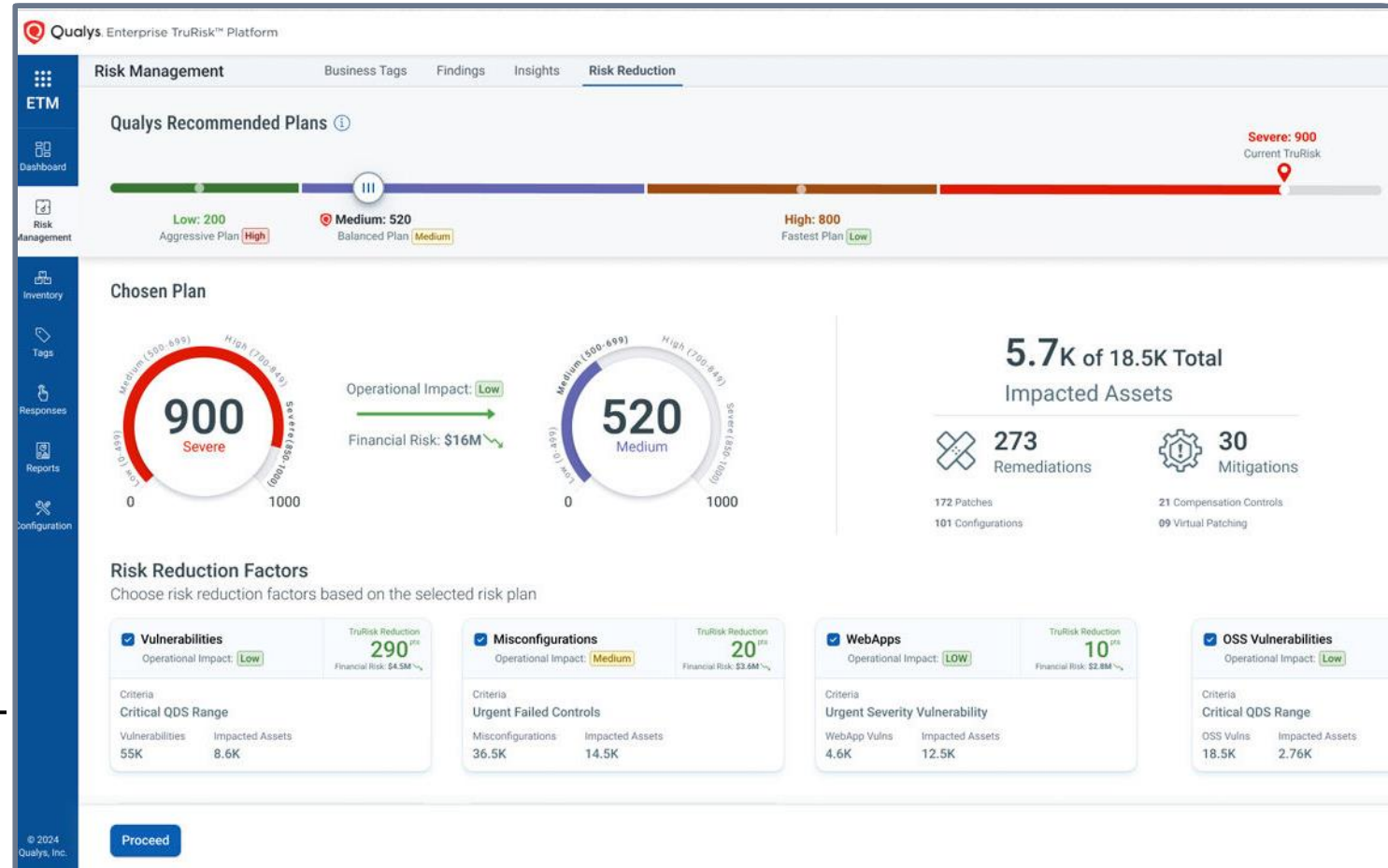
## Asset Criticality Detection

Automatically prioritize business-critical assets

04

## AI-Powered Incident Investigation Workflow

Actionable summary based on real-time aggregation of risk factors



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# Orchestrate Remediation

**with native capabilities and  
robust connected workflows**



# Don't Just Measure Risk—Eliminate It!

## TruRisk™ Eliminate

Address All Types Of  
Vulnerabilities **with**  
or **without** a Patch



### TruRisk Patch

- Test and deploy patches to fix vulns
- Fully automate patch deployment based on risk
- Windows, Mac, Linux OS and 3rd party app support
- **110M patches deployed natively by Qualys customers in 2024**



### TruRisk Mitigate

- Remediate vulns that don't have a patch
- Mitigate vulns that cannot be patched due to operational risk
- Address Zero Day vulns before the patch is available



### TruRisk Isolate

- Isolate device to ensure vulns cannot be exploited
- Allow exceptions to ensure device can be patched and managed



# One Click Workflow

## Scan, Prioritize, and Remediate Risk to Discovered Assets

01

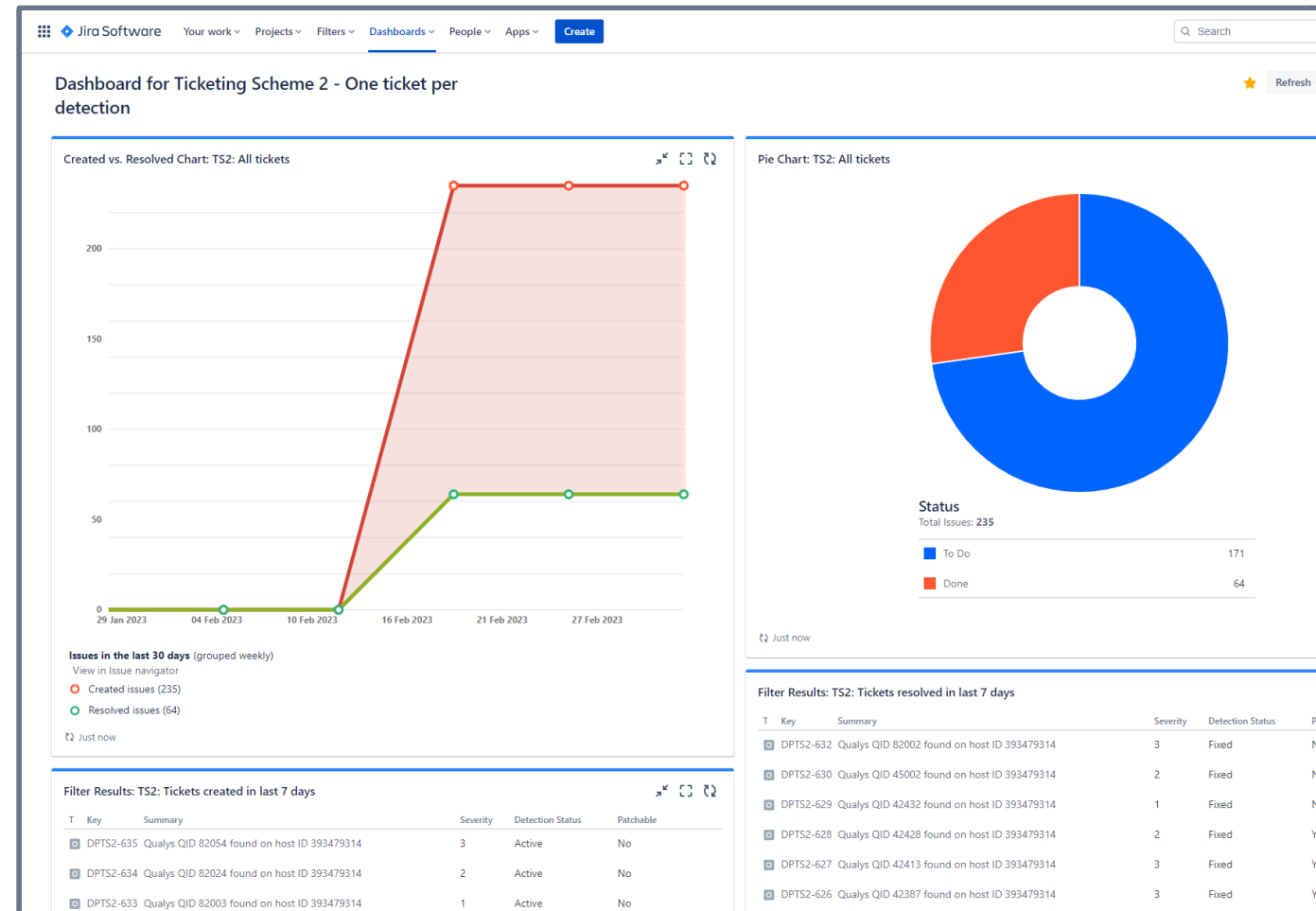
Activate New Assets for VM/PC and more

02

Assess the Risk of Web Applications

03

Alert & orchestrate ticking with Systems like Jira, Splunk, and ServiceNow



Qualys

De-risk Your Business

# Qualys Workflow Automation & Orchestration (QFlow)

No Code / Low Code – 300+ out-of-box Playbook



**Simplify** workflow creation with drag and drop visual nodes and no code



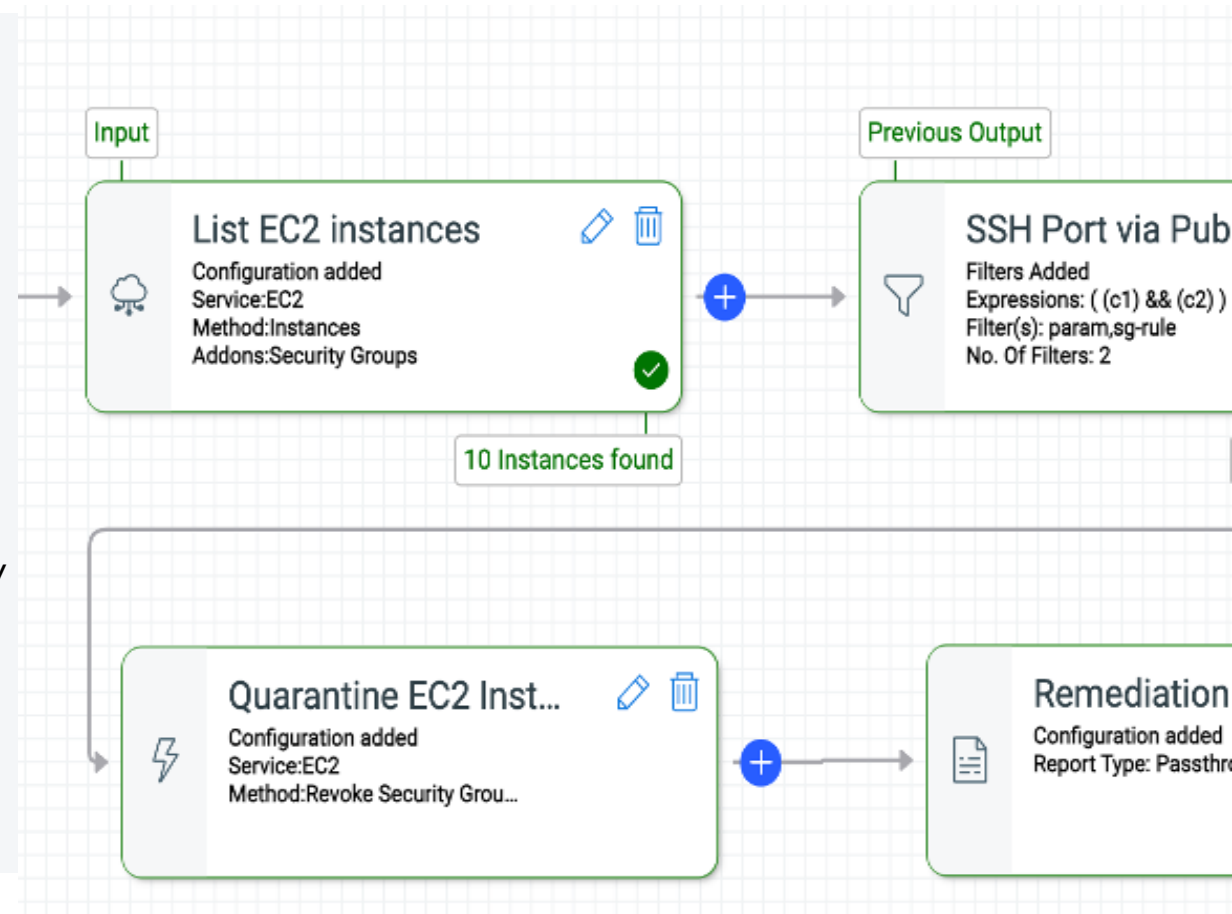
**Customize** security control workflows and scale inventory discovery



**Enrich** the security teams by automating efforts to manage security programs efficiently



**Orchestrate** remediation workflows and integrate with DevOps and ITSM tools



# Driving Business Outcomes



# Prioritize and Reduce Attack Surface Exposure

Drive business outcomes and ROI



**Mean-Time-to-Discovery**

30 Days



**2 Days**



**Asset Coverage**

~50-70%



**~100%**



**Tech Debt Mitigation**

Reactive



**Planned up to 12 months**



**Mean-Time-to-Remediation**

30+ Days



**<5 Days (To meet NCSC's Requirements)**

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**Demo Time**  
**Seeing is believing**





# Risk Prioritization with Qualys Enterprise **TruRisk™** Platform

- Asset Level Risk Score
- Complete 360 Context with Threat Intel

**TruRisk™**  
**Score**

- Correlate signals from many source
- Toxic Combination

**TruRisk™**  
**Insight**

- Visualize Attack Path exposure with risk indicators
- Blast Radius impact analysis

**Attack Path**