



VMDR for Multi-Cloud

A Single CNAPP Platform for VMDR, CSPM, CWP, KCS, CDR and SaaSPM



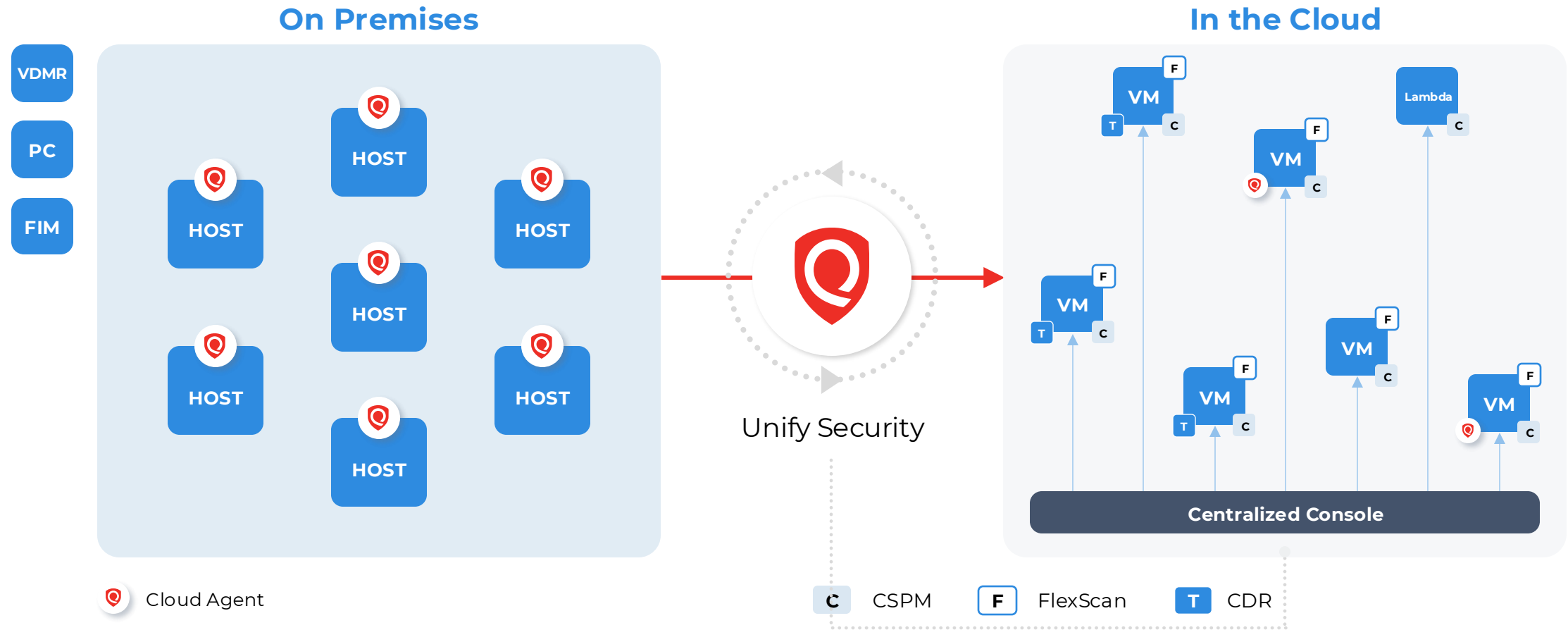
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Cloud & Container Security
Attack Surface Management, Web App & API Security

Thank You VMDR Customers !!!

We want to accelerate your journey to the cloud

It starts with bringing On-Prem and Multi-Cloud together



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**Cloud migrations are not easy,
We understand that !!!**

Cloud migrations are leading to challenges for security, vulnerability management and DevOps teams

Cloud Security Challenges



Multi-Cloud Visibility Gaps

Can I inventory my entire infrastructure with **100% visibility across all clouds**?



Identity Proliferation

Can we manage **identities and entitlements** in cloud infrastructure?



Securing dynamic workloads

Can we balance **development agility and security** effectively in our VMs and container orchestration?



Fragmented DevSecOps

Can we integrate security tooling within our rapid deployment cycles, and **shift left at scale**?



Shared Responsibility Model Confusion

Can we ensure all security aspects are adequately covered between us and the **cloud provider**?

**And
breaches
are only
increasing
for this
vector of
attack.**

01

In 2023, a F500 organization disclosed that a **cloud misconfiguration** had **exposed** the data of approximately **200,000+ customers**

02

Attackers injected **malicious code** into 1000s of **popular container images** on public registries. 51% of Docker images scanned has a **critical security vulnerability**

03

FTC fined a consumer DNA sequencing company after determining **1000s of customer's DNA information** was stored in **public S3 buckets**

These are not isolated instances - Its pervasive

65%

Misconfiguration and unauthorized access are their top cloud security concern

56%

Having a more **complex multi-cloud** environment than expected

57%

Maintaining **compliance in cloud environments** as challenging

44%

Have delayed or slowed application deployment due to **container security concerns**

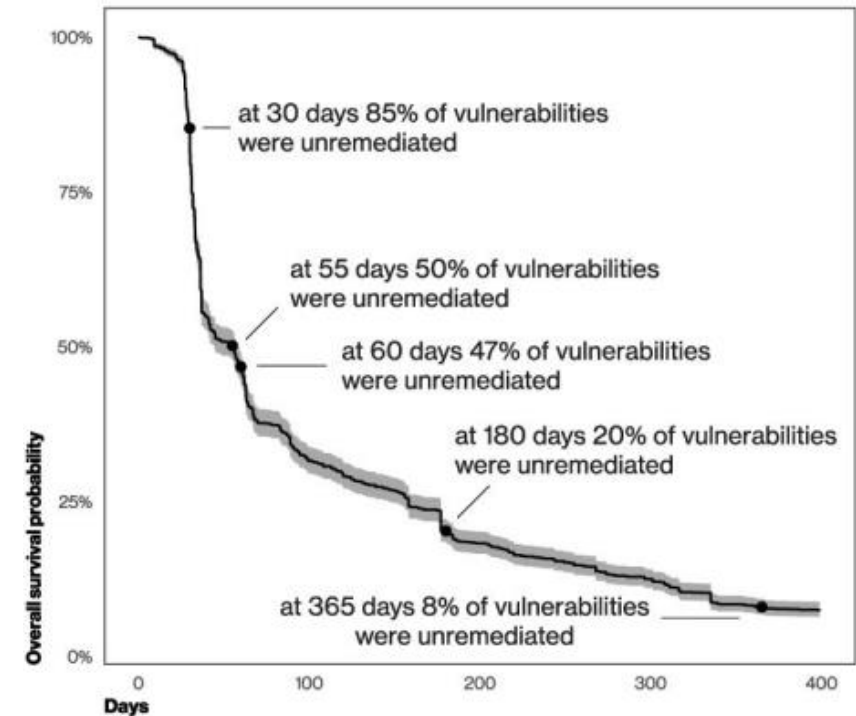


Figure 19. Survival analysis of CISA KEV vulnerabilities

Source: Verizon DBIR Report 2024

Cloud Security is a key component for a comprehensive risk management strategy

...as new attack vectors continues to emerge

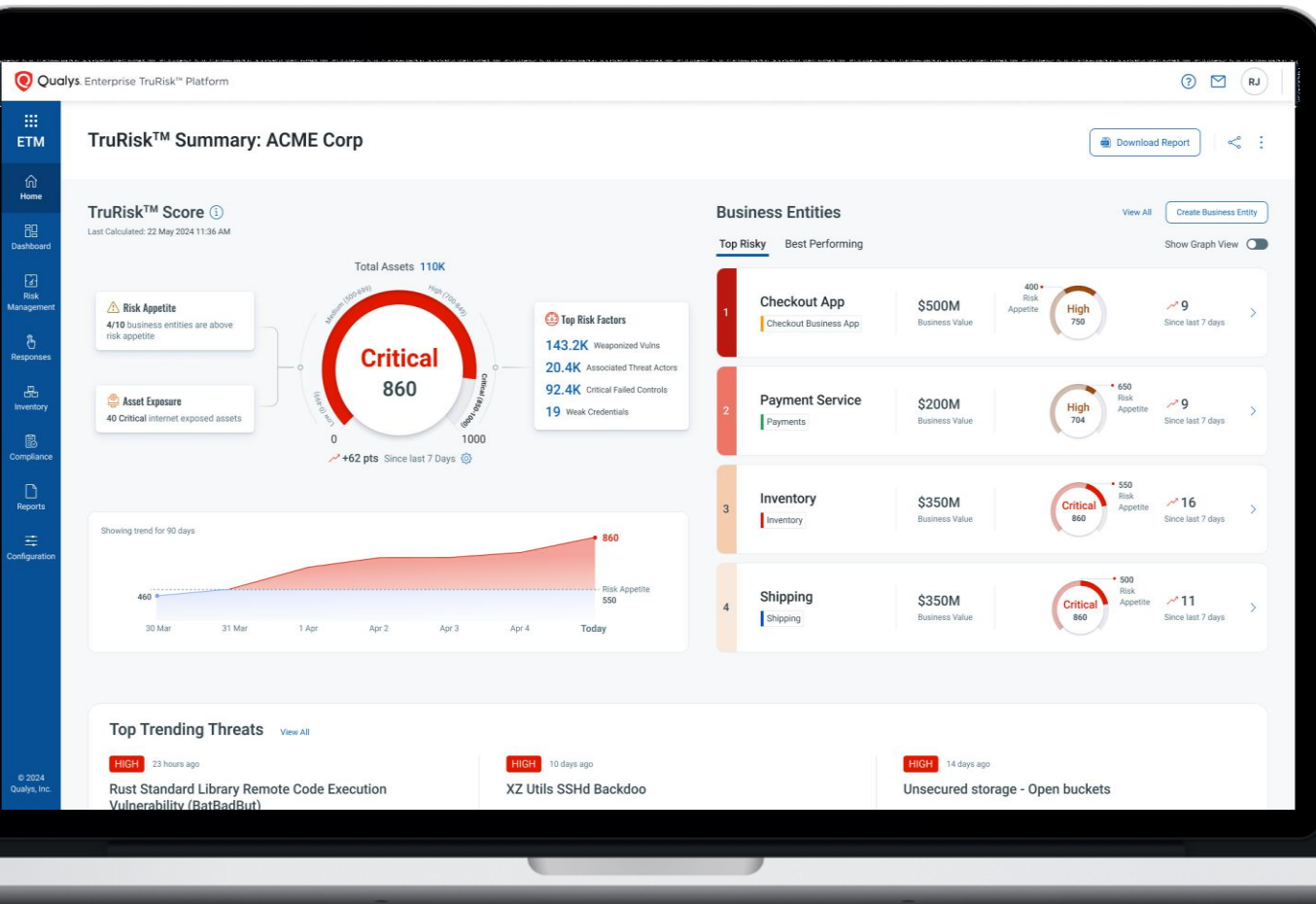
Cloud Native Application Protection Platform (CNAPP) are critical for your risk management

Core Cloud Security Functions in One Solution



Qualys Enterprise TruRisk Management (ETM)

World's First Risk Operations Centre in the Cloud



Measure, Communicate, and Eliminate Risks

Qualys Enterprise TruRisk Management (ETM) unifies asset management, vulnerability aggregation, risk assessment in one platform, providing real-time, contextual risk insights across every environment.

- ✓ Unified View of Risk Posture
- ✓ Enriched & Prioritized Risk Data
- ✓ Automated Risk Orchestration

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**With Qualys TotalCloud CNAPP,
you can create a single prioritized
view of risk for your Multi-cloud,
container and SaaS environments
...and turbocharge your ROC Journey**

Qualys TotalCloud CNAPP

Unified Cloud Security, Vulnerability, Compliance, and Threat Management

Vulnerability Assessments (CWP)

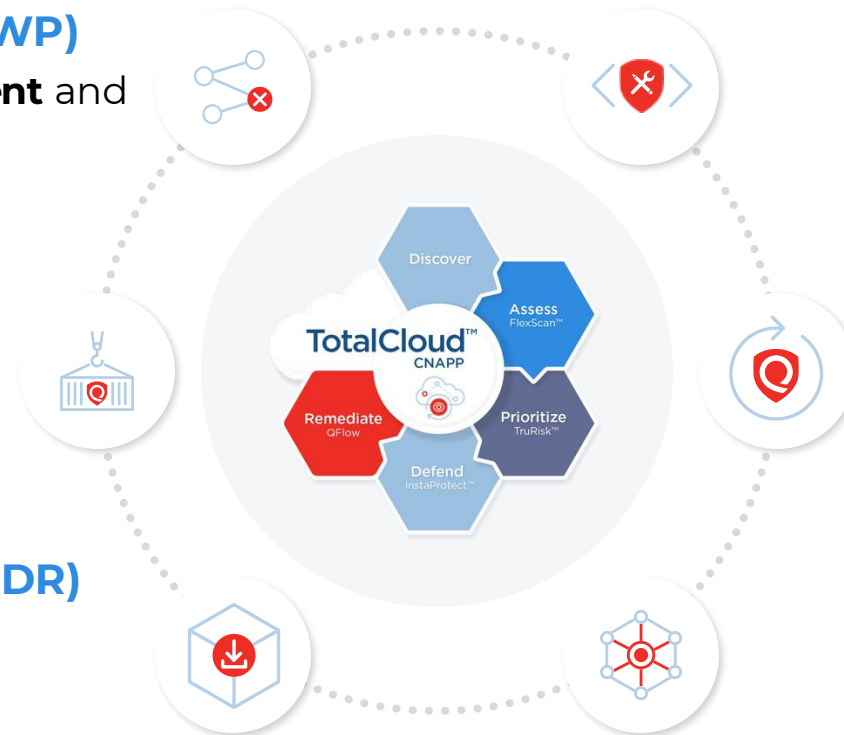
Flexible Vulnerability scanning (**agent** and **agentless**) with six sigma accuracy

Kubernetes and Container Security (KCS)

Container Security from **Development to Runtime**

Runtime Threats Detection (CDR)

- Detect Runtime Threats
- **Deep Learning AI**



Cloud Security Posture Management (CSPM)

- Multi-Cloud Inventory
- **Compliance**
- IaC Scanning

Cloud Infrastructure and Entitlement Management (CIEM)

- Identity Inventory
- Managing **Excessive Permissions**

Cloud Workflow Automation (CWA)

- **Custom Control**
- Automated Remediation

So how does TotalCloud CNAPP help with risk prioritization?



Comprehensive Multi-Cloud Visibility

Complete visibility across all cloud and containerized workloads



Scale Cloud Posture Assessments

Enriched cloud posture and vulnerability management



Secure Cloud Identity and Entitlements

Comprehensive view of cloud infrastructure entitlements and inventory



Secure Kubernetes and Containers

Discover, monitor and secure your Kubernetes and container environments

Drive risk prioritization with context and correlation with TruRisk Insights

Visibility is a key part of Risk Management

Comprehensive inventory crucial for the cloud



All environments

Across all clouds, containers, hybrid workloads



Comprehensive Inventory

Across all inventory and resource types



Accelerated Deployments

Simplified and quick onboarding driving visibility within minutes

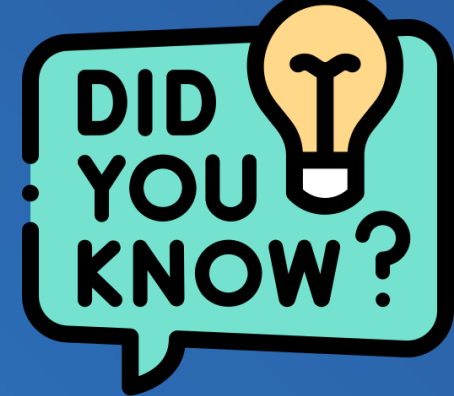
AWS	Azure	GCP	OCI
Directory Service	Log Analytics Workspace	Networks	Security List
KMS	WAF Web Policies	Sub Networks	Key
S3	Frontdoor WAF	Firewall Rules	Big Data Service Clusters
EBS	Secret	Storage	Data Flow Application
Mesh	Key Vault	Disk Snapshots	API Gateway
Route 53 Record	Front Door	Disk Images	Functions Applications
Network ACL	Storage Container	Cloud Armor	Boot Volume
VPC Endpoint	Data Explorer Cluster	Cloud DNS	Bucket
Lambda Function	Data Factory	CloudRun Services	Block Volume
SES Identities	Container Registry	Cloud Functions	DB Systems
ACM Certificate	SQL Server	SQL	Compute Instance
MQ Broker	SQL Server Database	Spanner Instance Database	IAM User
Transit Gateway	Virtual WAN	BigTable Instance Cluster	Autonomous Database
Neptune DB Clusters	Cognitive Search	Service Account	File System
Neptune DB Instances	Data Lake	Cryptographic Key	Block Volume Backup
ES Domain	Synapse Workspace	PubSub	Load Balancer
Redis	API Management Service	Artifact Registry Repositories	Kubernetes Cluster
Dynamo DB Table	Disk Access	Dataproc	Mount Targets
Memcached			
RDS			
EC2 Images			

and many more...

TotalCloud CNAPP covers ~ 200 services across 4 major cloud providers

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**VMDR Customers: You have access
to free *TotalCloud connectors* for
full cloud inventory as part of your
subscription**

Drive posture assessments to the cloud with our Cloud Security Posture Management (CSPM)

Ensure complete visibility across your stack

- Continuous discovery and inventory of **multi-cloud** resources
- Setup in minutes using **cloud provider APIs**

Continuously assess risk and prioritize threats

- **1000+ out of the box** security controls
- **No code automation** for remediation and custom controls



Cloud Posture Assessments

- Identify threats caused by **misconfigurations** and non-standard deployments
- Validate with latest **CIS v3.0.0** benchmarks

Ensure reporting and compliance

- Prevent fines due to compliance violations (e.g., **GDPR, PCI**)
- **Compliance monitoring of 35+** global compliance mandates

Three Fortune 50 banks use TotalCloud CSPM to scale compliance and be Audit Ready

Scale Vulnerability Management with our Cloud Workload Protection (CWP)

Enterprise-grade Vulnerability Scanning for On-Prem and Cloud Infrastructure



Qualys TotalCloud secures 44 Million cloud workloads across a variety of organizations.

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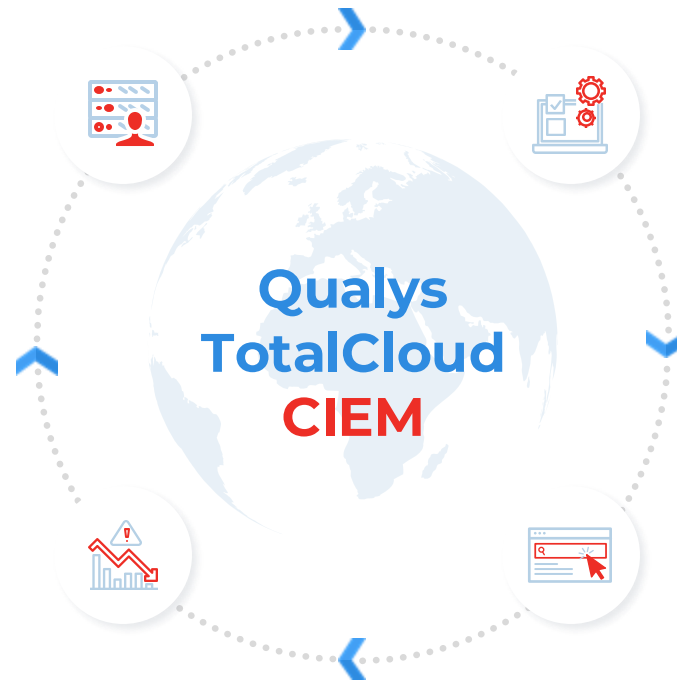
Secure cloud identity with our Cloud Identity and Entitlement Management (CIEM)

Discover Identities and Permissions

- Inventory of **users, roles, and cloud services** using the identities
- Permissions and entitlements

Remediate to reduce Risk

- **Reduce permissions** with overly permissive identities
- Use **automation workflows** to scale response



Assess and Monitor

- **Overly permissive entitlements** and unused identities
- Monitor **new identities, permissions, and events** from cloud provider

Prioritize with TruRisk Insights

- Identify the impacted resources and **potential lateral movements**
- **Prioritize response** and drive remediations at scale

Large industrial manufacturer in Europe enhances cloud identity context with TotalCloud CIEM

Secure your DevOps cycle with our Kubernetes and Container Security (KCS)

Manage and Mitigate Risk end-to-end for the entire DevOps Pipeline

Container Discovery and Inventory

- Manage and **inventory container images on hosts, clusters, registry**
- Manage and inventory container images built in **official builds (CI/CD)**

Drive Policy Compliance

- **CIS for Docker**
- PCI 4.0 (Risk based Vulnerability Management & File Integrity Monitoring for Containers)



Risk Assessment

- **Identify vulnerable first party and third-party code**, and malware in images
- **TruRisk for K8s clusters** and risky containers

Threat Management

- **Detect zero-day malware** in containers using deep learning
- Respond and manage threats with **workflow automation, and integrations**

Fortune 10 bank uses TotalCloud KCS to secure from development to runtime, scanning 6.5 Million container images per month

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Drive automated risk correlation with TruRisk Insights

Contributing factors



Internet Exposure



Vulnerabilities



Active Threats



Misconfigurations



Access Permissions

**TruRisk
Insights**

TruRisk Insights



Public VM with write access on database



Public VM with privilege to create IAM artifacts (User, Group, Role)



Critical exploitable vulnerability on public VM with destructive permissions for AWS KMS



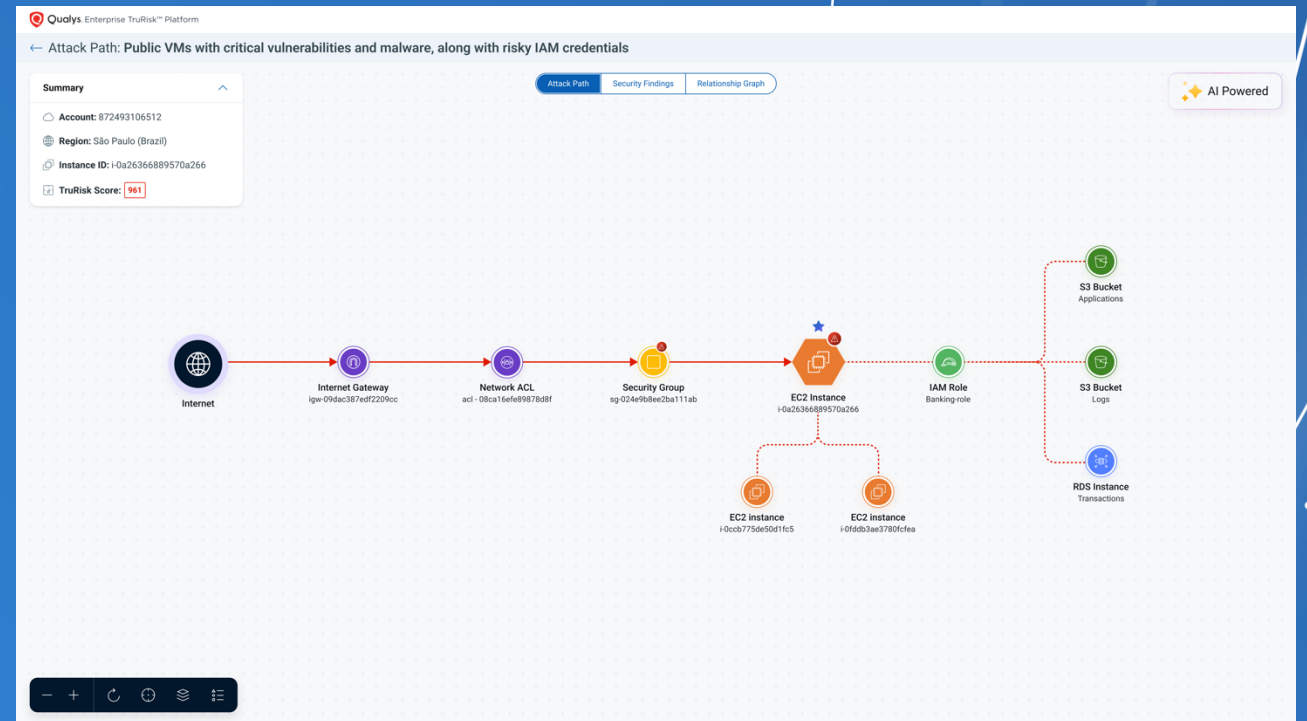
Public VM with the privilege to create IAM artifacts (User, Group, Role)

TruRisk Insights creates a single prioritized view of risk

TruRisk Insights provides comprehensive risk prioritization

We are excited to enhance it by visualizing and
analyzing context

Announcing TotalCloud Attack Path



Why Attack Path?

TruRisk Insights prioritizes risks with context

Attack path helps visualize the context and **understand risk propagation**



Prioritize with
TruRisk Insights



Analyze with
Attack Path



Remediate with
Workflow Automation

TotalCloud Attack Path

Multi-dimensional Approach to Cloud Security



Visualize critical resource exposure

Identify blast radius enabling proactive threat analysis



Prioritize risk findings w/ security graph

Navigate to important findings on critical resources



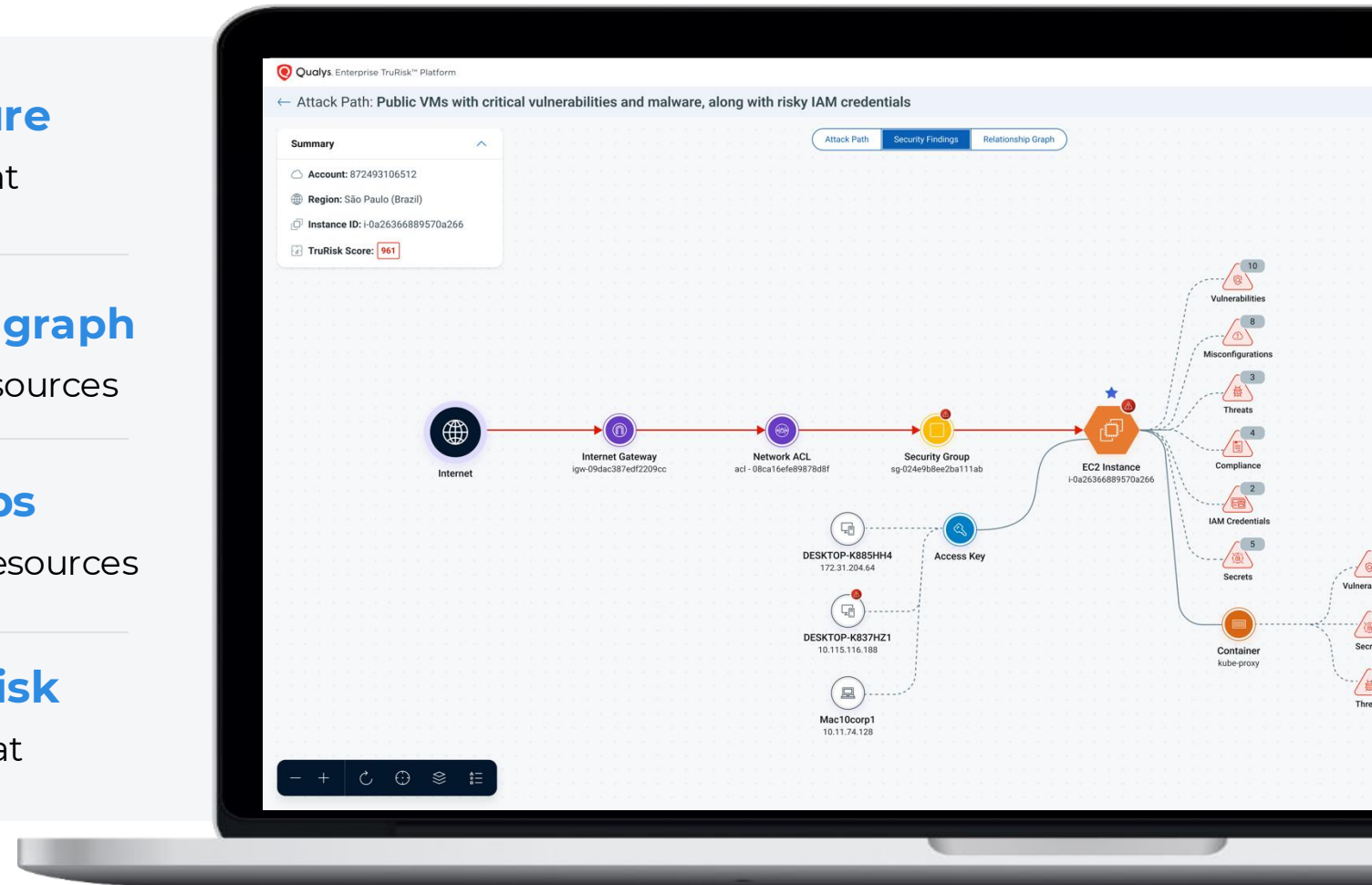
Understand resource relationships

Capture communication flows of attached resources



Scale with rapid remediation of risk

Drive accelerated risk-based prioritized threat remediation



**Want to see how you can break
organizational silos, and scale
remediation
with automation?**

Qualys Cloud Workflow Automation (QFlow)

No Code / Low Code



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



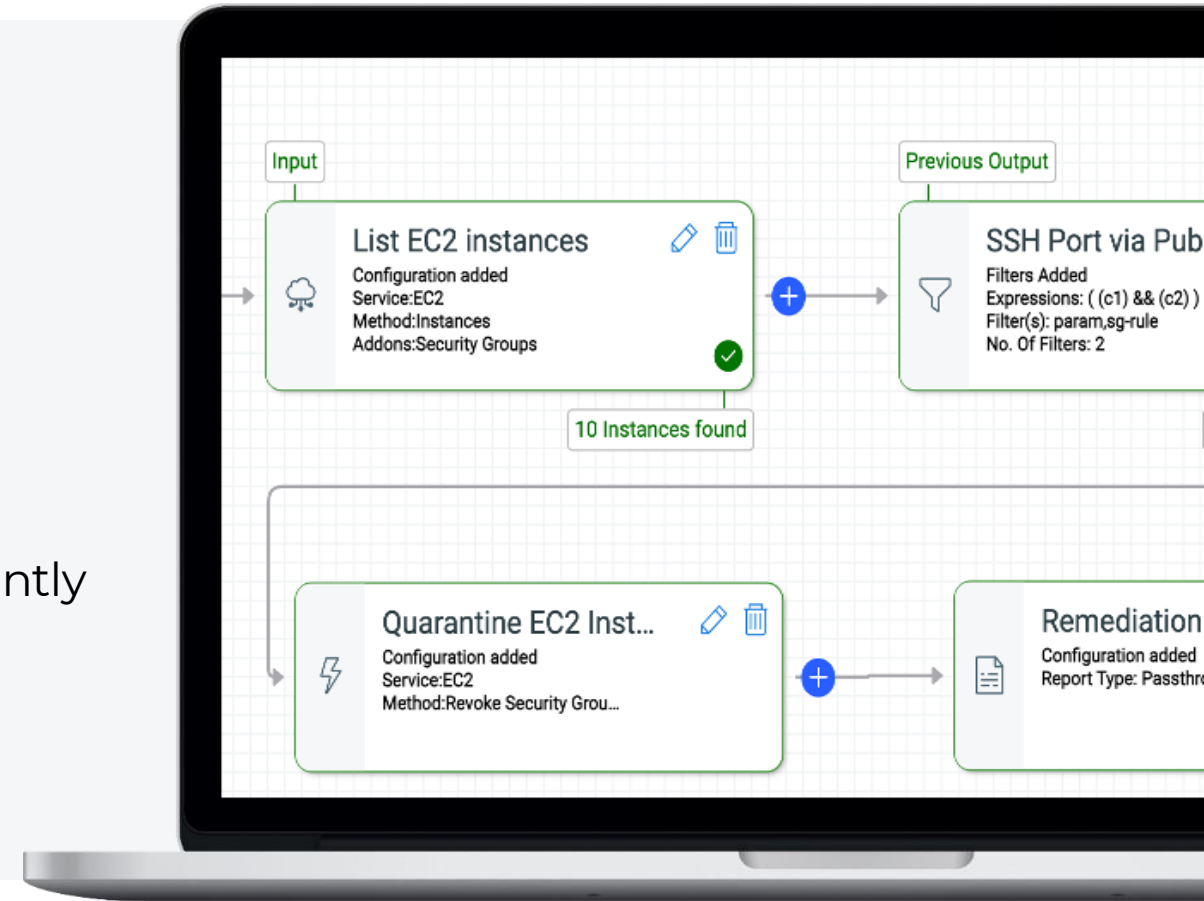
Customize security control workflows and scale inventory discovery



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



Orchestrate remediation workflows and integrate with DevOps and ITSM tools



Demo

Can I deploy and Operationalize this in
minutes?

Now, lets hear from, Syntax, on how they scaled up their cloud security program

...and drove vulnerability management
and compliance to the cloud