



# Optimising Business Outcomes From Your Existing Cybersecurity Strategy

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# AGENDA

Tenable, what we do and why –

- Threat Intelligence
- Real Attck paths
- Exposure Management

# The world around us.... **The Threat Intell context**



Business  
Digital  
transformation.



Technology growth  
A.I.



Multiple crises  
Geo-political  
context.

# WEF Risk Report 2024

Cyber Insecurity in the TOP 5 for the next 2 years

FIGURE C Global risks ranked by severity over the short and long term

*\*Please estimate the likely impact (severity) of the following risks over a 2-year and 10-year period.\**



Risk categories

- Economic
- Environmental
- Geopolitical
- Societal
- Technological

2 years



10 years



Source

World Economic Forum Global Risks  
Perception Survey 2023-2024.

## Leak sites posts monthly

600

NUMBER OF LEAK SITE POSTS

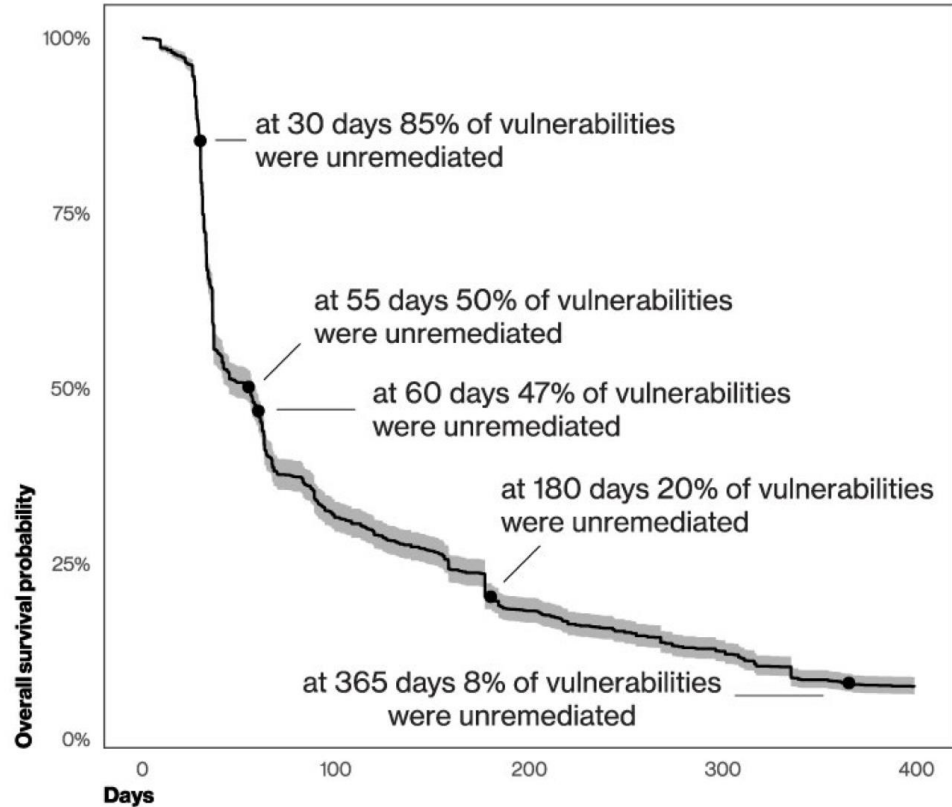
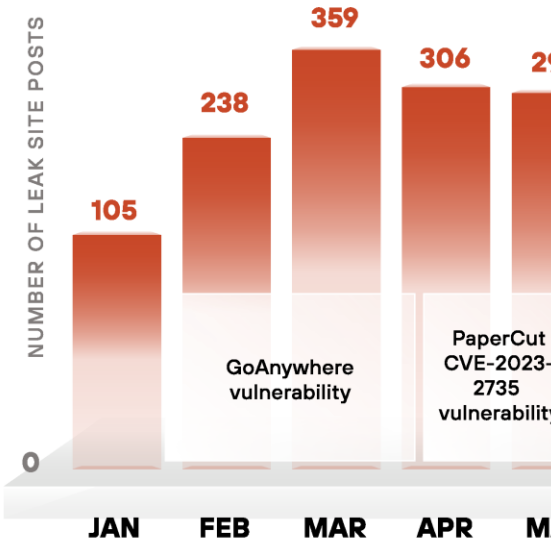
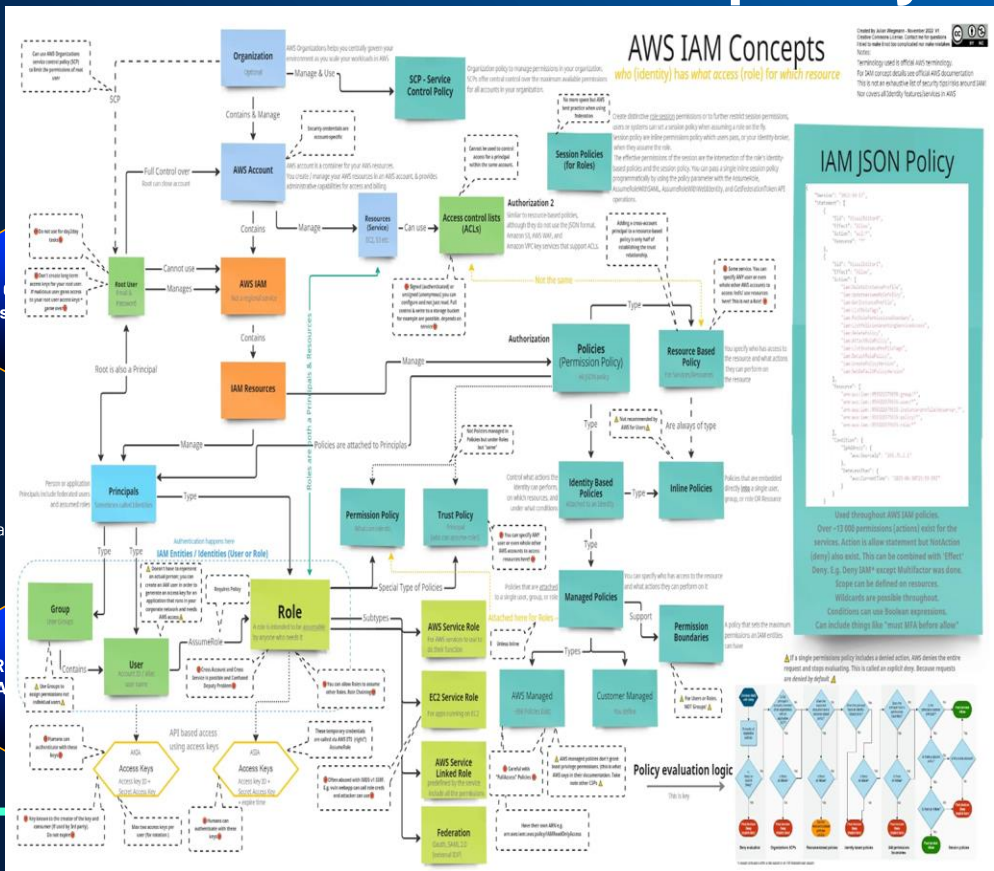
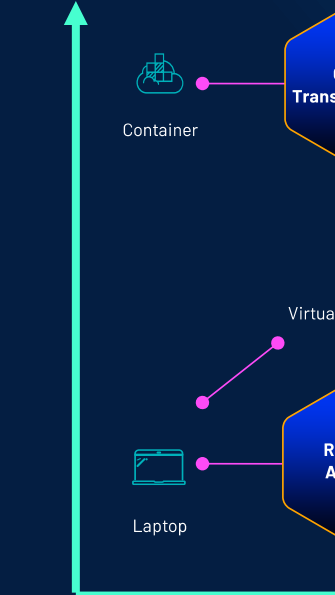


Figure 19. Survival analysis of CISA KEV vulnerabilities



# Attack surface complexity

Risk of Exposure



vulnerabilities

Misconfigurations

Attack surface Complexity

# AGENDA

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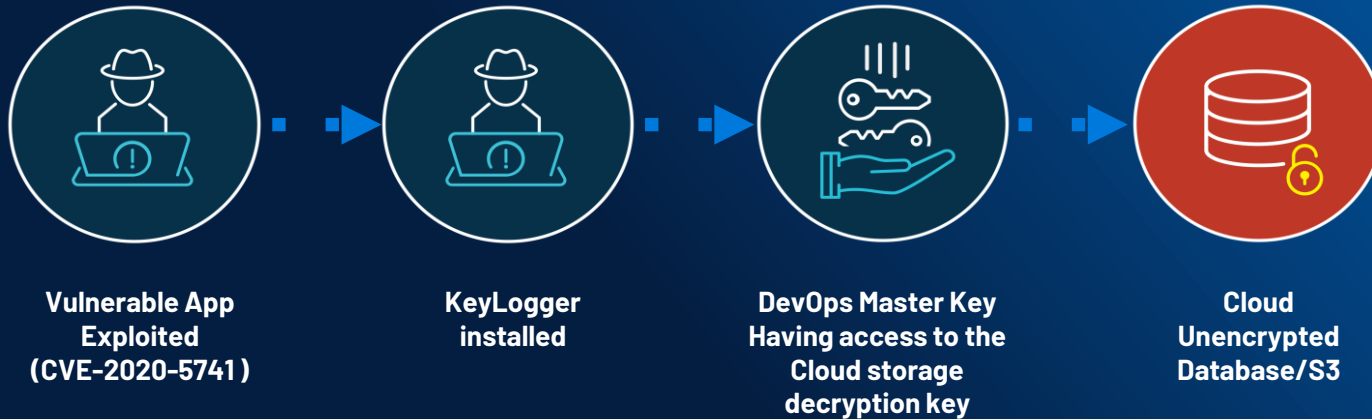
- Real Attck paths

# Toxic combination **Cloud Access -> LastPass**

**Objective** : exfiltrate & delete

**Goal** : monetize or publish the data obtained

**Operating mode** : Toxic combination combining an old (2 years) known vulnerability, identity compromise, wrong cloud access, from a home worker



Developer target selected after the first data breach (August 22) – Identity Compromised





# (Secure ?) file transfer 2023 -> MoveIT

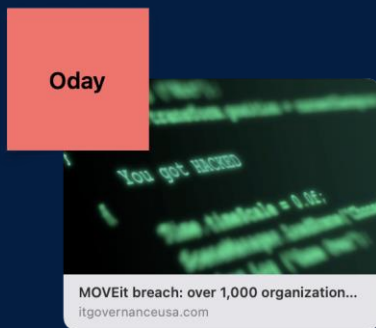
**Objective** : exfiltrate & delete

**Goal** : monetize and publish

**Operating mode** : 0\_day and non-patched vulnerability (after several months)

**Impact** : 8000+organisations\*, 1587 breach notifications, 60 Millions users

**Group** : Cl0p ransomware (RaaS)



Formed in 2019 encrypting sensitive data and extorting its victims.

MOVEit attack is noteworthy because they've **abandoned encryption** and are **simply extorting** their victims not to release the data they've stolen.

Other file transfer attacked by Cl0p

- GoAnywhere (File transfer attack)
- Accellion (File transfer attack)

# AGENDA

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- Exposure Management  
a Pro-active approach.

## Inventory Assets



## Analyse Risk



## Communicate Priorities



## Program ROI's

PRODUCTIVITY GAIN  
REDUCED RISK  
BETTER COMMUNICATION

ROBUST DETECTION  
ENHANCED CONTEXT  
IMPROVED PRIORITIZATION

AGGREGATION OF DATA  
CONSOLIDATION OF TOOLS  
REDUCED COST

## Business ROI's

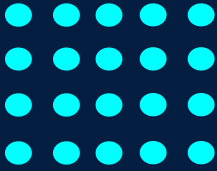


# To scale, we must approach security from **an attacker's perspective...**

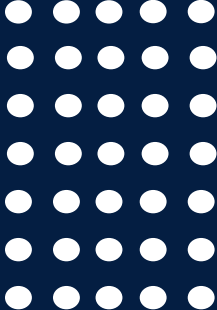
Discover the  
**ATTACK SURFACE**

1

Identities



Assets

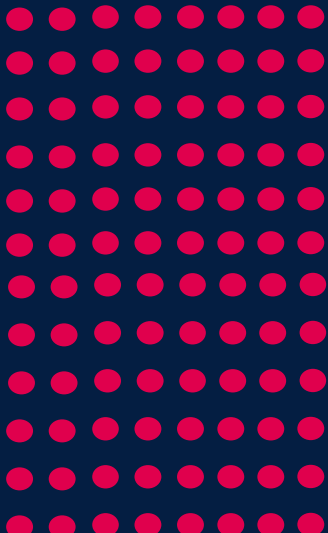


Identify external & internal facing assets & identities

Identify  
**PREVENTABLE RISK**

2

Vuln | Misconfig | Excess Permissions

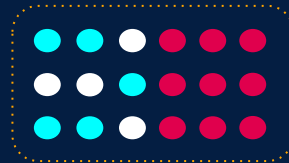


Detect 3 forms of risk used to gain access & move laterally

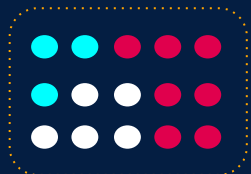
Align with  
**BUSINESS CONTEXT**

3

Business Service A



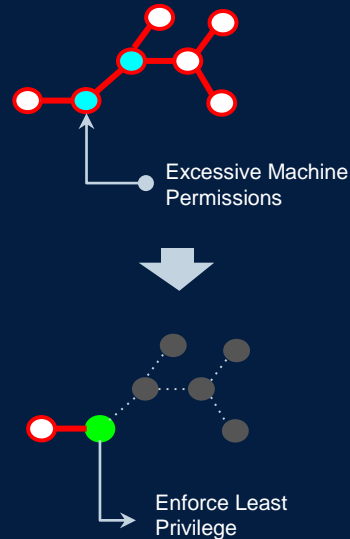
Business Process B



Link assets, identities & risk to business to focus on what matters

Remediate  
**TRUE EXPOSURE**

4



Assess attack path viability & choke points for remediation

Continuously  
**OPTIMIZE INVESTMENTS**

5



Measure and prioritize resources for better outcomes

# Document the attack surface

- Discover all identities:

- Continuous discovery of Human & Machine IDs
- Multi-Cloud & Active Directory

- Discover all assets:

- Cloud, Hybrid Apps, Unseen assets, OT, IoT, IT
- Details: Config, change history, connections...

## Unified Asset Inventory

The dashboard displays the following metrics:

- Number Of Assets: 24.8k
- New Assets In Last 7 Days: 65
- Updated Assets in last 7 days: 18k

Categories breakdown:

- Web Applications: <1%
- Computing Resources: 7%
- Identities: 40%
- Cloud Resources: 50%
- Operational Technology: 3%

Asset details for Identities:

Identity Name	Account Provider
Allen Aiello	Microsoft
Jacklyn Affi	Microsoft
Alan Adame	Microsoft
Alfonso Aguilar	Microsoft
Tyrel Mendelsohn	Microsoft
Milo Talleur	Microsoft
Marcus Duffee	Microsoft

Asset details for Cloud Resources:

Cloud Provider	Count	Sub-category	Count	Sub-category	Count
AWS	237	DynamoDB Tables	49	S3 Buckets	36
GCP	249	Kinesis Data Streams	52	Redis Instances	98
Azure	237	RDS Clusters	30	Storage Accounts	76

Summary of Cloud Resources:

- 306 IAM Resources
- 723 Data Resources
- 123 Containers Resources

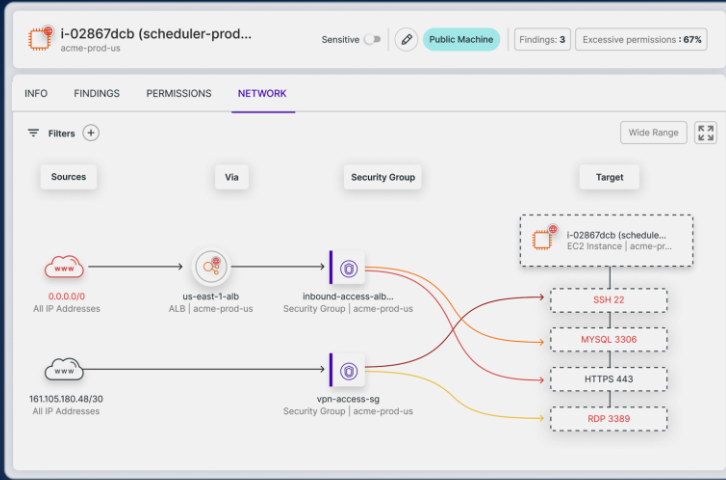
Navigation and Filtering:

- Search for asset name or asset ID
- Filter, Export, Columns
- Navigation: IDENTITY, ASSETS
- Sub-navigation: Human, Machine, Cloud, Hybrid Apps, Unseen, OT | IoT, IT



# Contextual Intelligence: Prioritize Technical Exposure

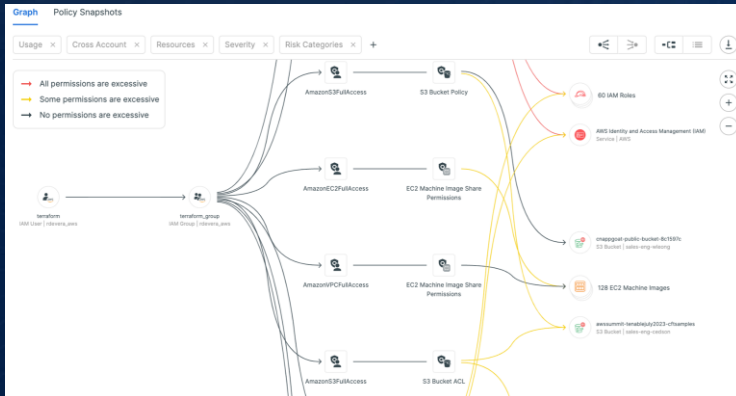
Network Exposure



- 9 public workloads with critical vulnerabilities and high privileges
- 54 public workloads with an unpatched OS
- 28 public virtual machines with high privileges
- 2 ECS services with critical vulnerabilities and high privileges

Toxic Combinations

Permissions & Usage



Standard	Summary	
PCI DSS v4.0	10%	<a href="#">↓</a>
AWS Well-Architected Framework	31%	<a href="#">↓</a>
CIS Benchmark for AWS v1.5.0	61%	<a href="#">↓</a>
GDPR	57%	<a href="#">↓</a>
HIPAA	70%	<a href="#">↓</a>
ISO 27001	55%	<a href="#">↓</a>

Compliance

# Optimize Communication: Across Teams & with Execs

## Digital Commerce Service



Your score is inside target. Web Applications is

### Benchmarks



### Asset Risk Breakdown



## Asset Inventory

Number Of Assets: 24.8k | New Assets in Last 7 Days: 65 | Updated Assets in last 7 days: 18k

Categories

- Web Applications <1%
- Computing Resources 7%
- Identities 40%
- Cloud Resources 50%**
- Operational Technology 3%

Search for asset name or asset ID | Filter | Export | Columns

Name	AES	Type	Associated Ta...	Last Updated	Categ...
bigfix-clus-app	973	HOST	37	January 26, 2024	
sql2016	889	HOST	28	January 26, 2024	
qapvs-centos...	888	HOST	23	January 26, 2024	
oracle12g	888	HOST	27	January 26, 2024	
sccm	887	HOST	30	January 26, 2024	
se-dc1	887	HOST	32	January 26, 2024	

## Business Exposure

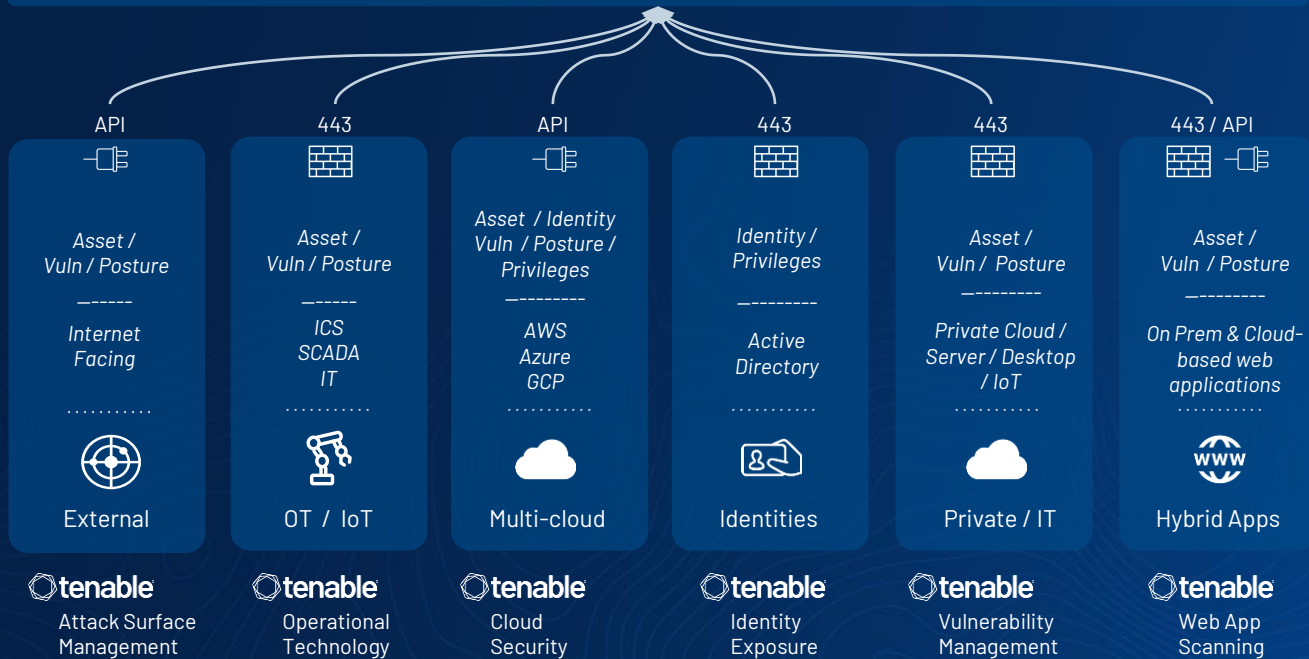


## Attack Paths

# Tenable One Sensor Data Collection



DATA  
ENVIRONMENT  
ATTACK SURFACE





**Thank You**