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Measuring & Maturing Your Security Program

Presented by: Anup Ghosh, CEO, Threat Mate



IT NATION SECURE



Agenda

Attack Surface Area

Inquisitive Security

3 Minimum Security Stack

Security Maturity Models

5 Security Metrics

6 Industry Measures of Risk

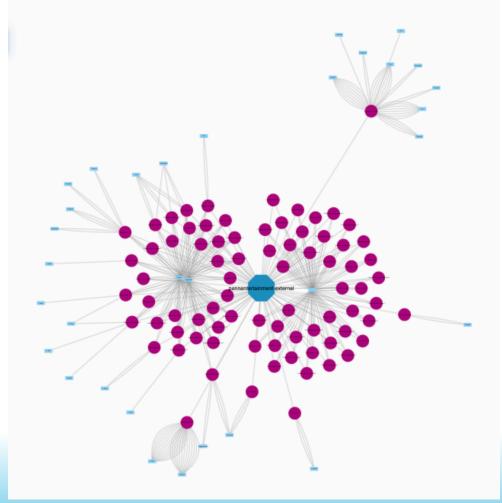


Your Digital FootPrint is your Attack Surface

ThreatMate Discovers & Analyzes Your Attack Surface for Vulnerabilities

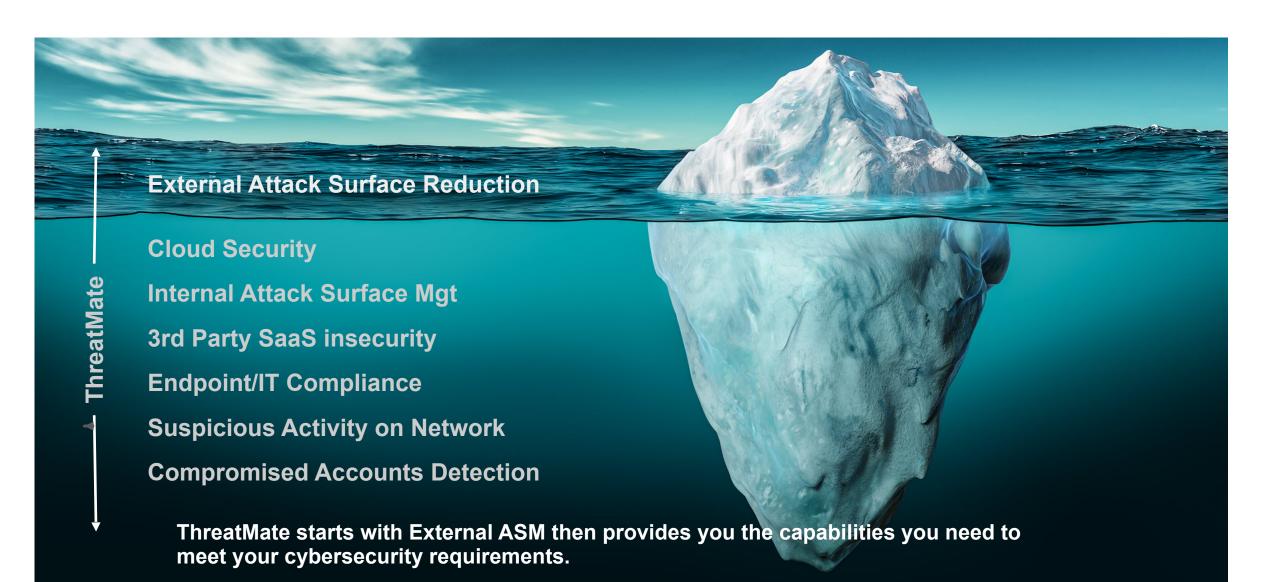
External Attack Surface (for adversaries) include:

- Second & third level domains (eg <u>www.example1.com</u>, customer1.example1.com...)
- Cloud footprint (AWS, GCP, Azure)
- Customer-facing SaaS instances
- 3rd Party SaaS (CRM, Github, HR, Payroll systems)





The External Attack Surface is the Tip of the Iceberg



Inquisitive Security

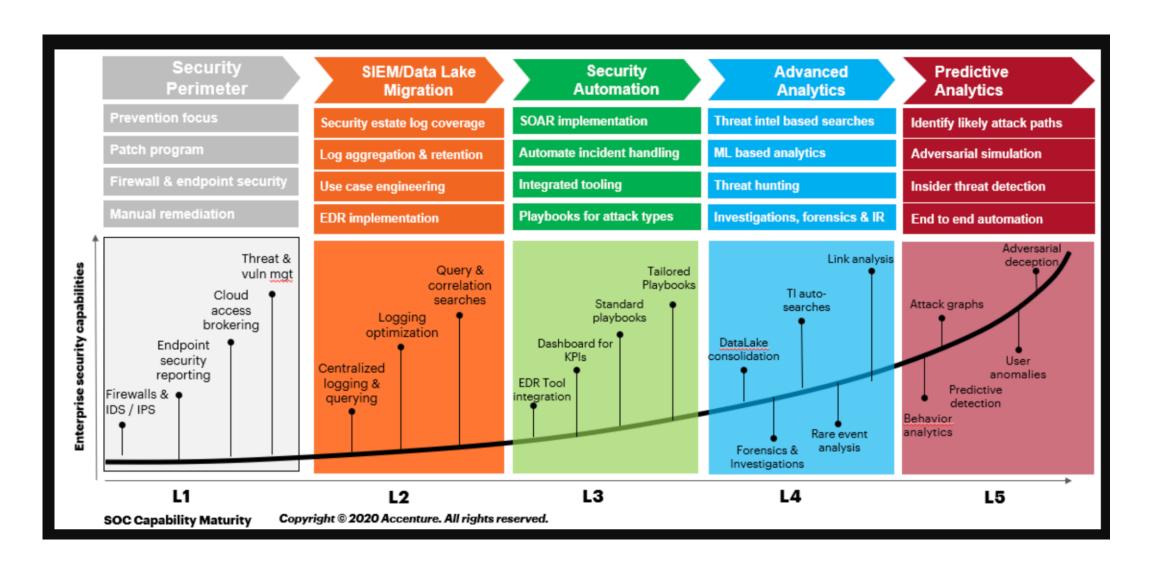
Ask critical questions that are required for Compliance, Cyber Risk Insurance surveys, 3rd party Vendor Surveys

Categories of Risk	Example Questions
Asset Discover/Identification	What new devices have connected to my network in the past week?
Cloud Security	Do I have open storage buckets or other security misconfigurations?
Compliance	Are my devices using Security best practices? Has anything changed since yesterday?
IT Policy	Which of my users do not have MFA enabled?
3rd Party Vendor Compliance	Is my MSP/ecommerce vendor/etc. keeping me secure?
Suspicious Activity	Which machines have initiated network connections directly with another machine on the same subnet? Which have scanned the subnet?
Vulnerability Management	Which browsers are not at their current versions?

Example "Bare Bones" Security Stack for Meeting Compliance

Category	Example Vendor Stack
Pen Testing	Cobalt/ThreatMate
External Attack Surface Mgt	Detectify/Cycognito/ThreatMate
Firewall	PANW/Fortinet
Vulnerability Mgmt	Rapid7/Tenable/ThreatMate
Compliance Agent	Hexnode/StrongDM/ThreatMate
Managed Endpoint Detection & Response (EDR/MDR)	Crowdstrike/SentinelOne
Multi-Factor Authentication	Microsoft Azure
Cloud Security	Aqua Security/ThreatMate
Compliance automation	Vanta/Drata
SIEM	Splunk/Chronicle

Prior Work in SOC Maturity Models



How Much is Enough Security?

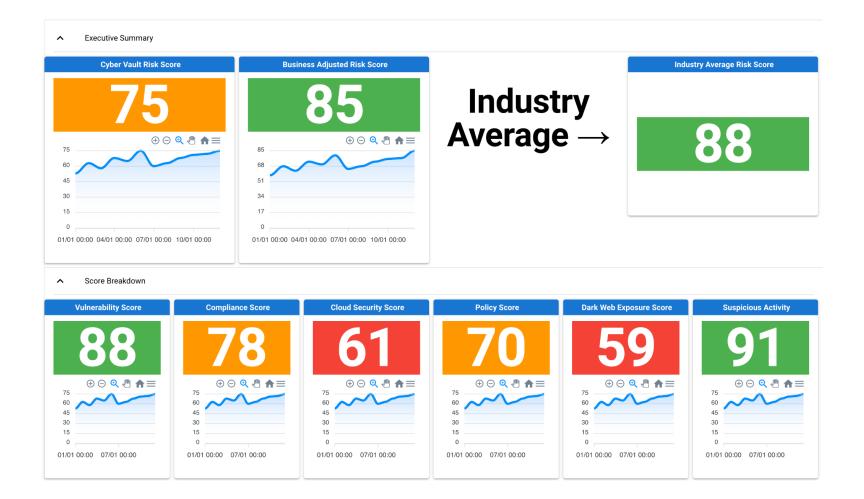
Most Security Professionals Struggle to Answer:

- How secure is my network?
- How much is enough spend in cybersecurity?
- Am I likely to suffer a Ransomware attack?
- What is my MTTD, MTTR, exposure time, Vuln Mgt Health?
- How do I compare to my peers & competitors?

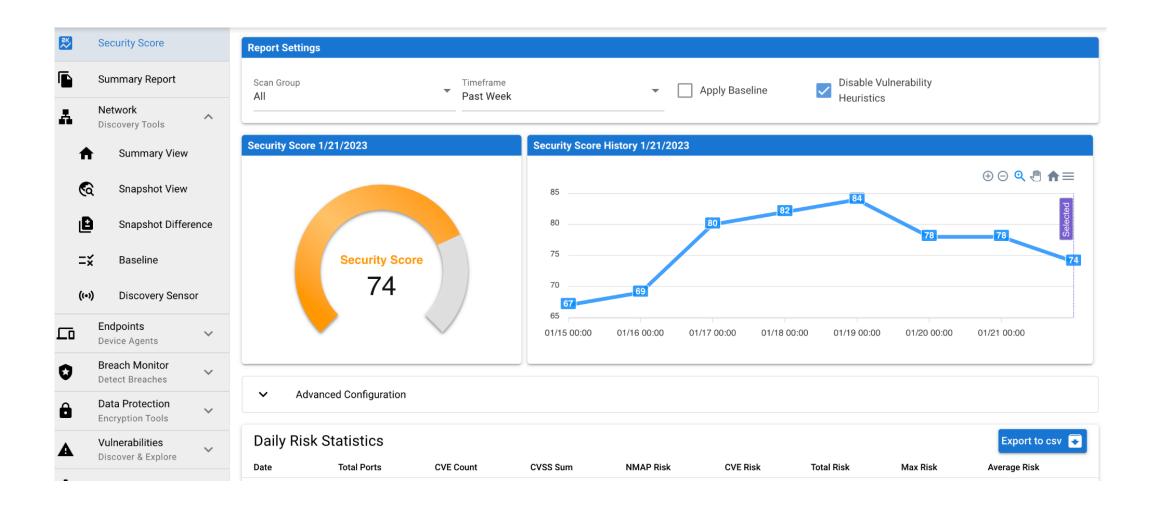
In spite of standards, frameworks, and programs, quantifiable security is hard to come by.

At ThreatMate, we provide continuous assessment of security across your security exposures, then quantitatively measure your progress in improving security.

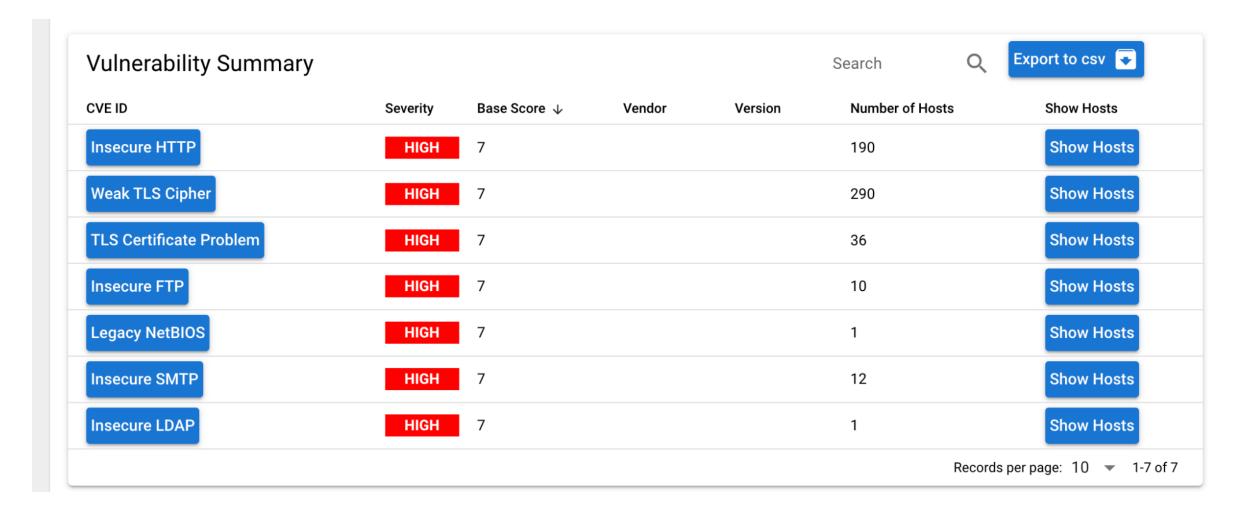
Risk Dashboard



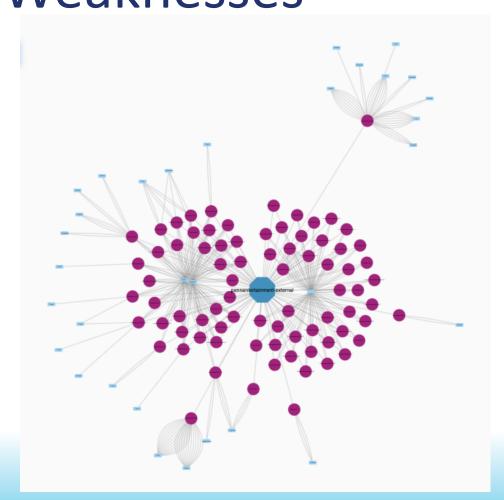
Progress Dashboard

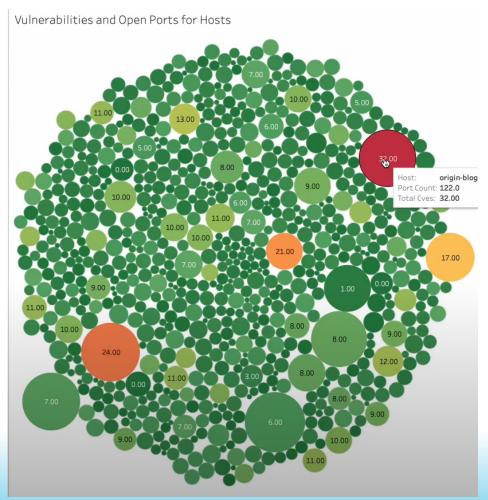


Identified Issues



Visualizing Large-Scale Data Sets to Identify Weaknesses







From Ratings to Resiliency



- ThreatMate rates each risk area with weighted risks and identifies the risk contribution from each identified issue
- Ratings gamify security work & rewards improved resiliency while capturing measures of performance (eg exposure time, MTTD, MTTR)
- Integrations with Jira and SNOW (ITSM) permit SecOps teams to create user stories, tickets, resolve issues & increase resiliency

Let's Collectively Figure Out the Best Measures of Risk

Quantitative cybersecurity is the best way to understand if your SOC program is working

Allows you to focus fixed resources in areas that need it and measure performance

Holds everyone accountable

Industry is already moving in this direction

Let's get in front of it!

Discussion



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