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Vulnerabilities

The Food That Hacker Eat

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It’s Brutal Out There

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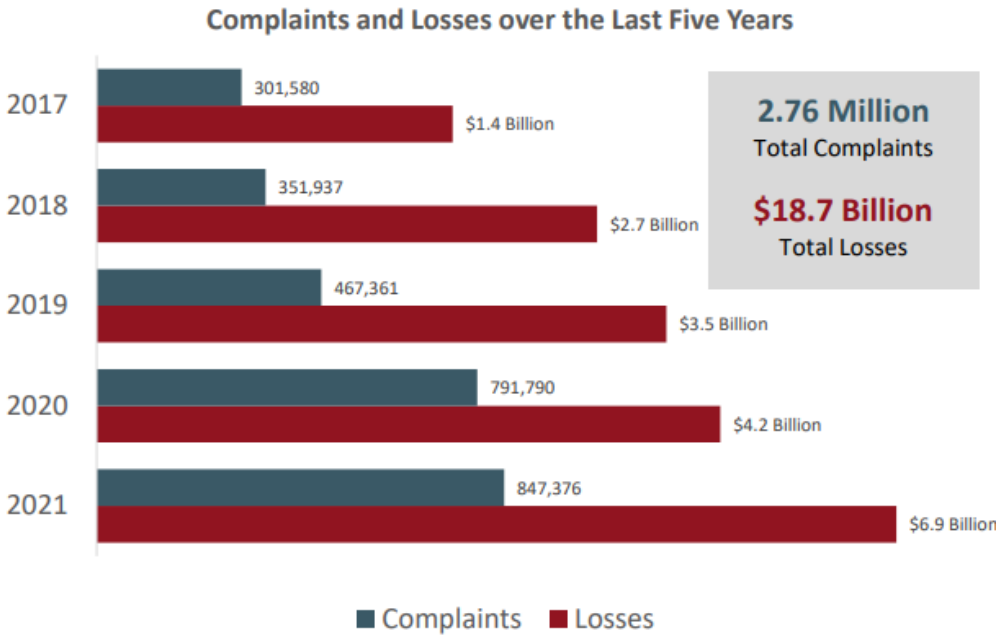
Being Secure May Not Be Good Enough

In March 2022, Deputy National Security Advisor Ann Neuberger issued a warning to United States corporations about nation-sponsored hacker groups

"Russia recently disclosed that it will be attempting to compromise United States corporations, so there is no reason to believe that things will get easier. We need to prepare for even more sophisticated phishing attacks and business email compromise schemes. We also should expect the flood of critical vulnerabilities to continue, along with cascading effects from vendor security breaches. Collectively, these ***changes in the threat landscape mean that we will need to be more than just secure, we also will need to be resilient.*** *Validating the efficacy of our data backups, business continuity and disaster recovery plans will be vital."*

-- 2022 IT Security Risk Assessment Report

Another Year Like No Other



Source: FBI's 2021 INTERNET CRIME REPORT

Role	Driver
Attacker	Money to be made by cyber crime
Attacker	**Inflict economic punishment**
Attacker	Time to create new attack vectors
Attacker	Only need to be right once
Defender	Increasing IT complexity
Defender	More sophisticated attack vectors
Defender	Old technology that is hard to secure
Defender	Many silos of IT to manage and defend
Defender	Insatiable desire for more technology
Defender	Need to be right 100% of the time
Defender	**Rising regulatory bar**

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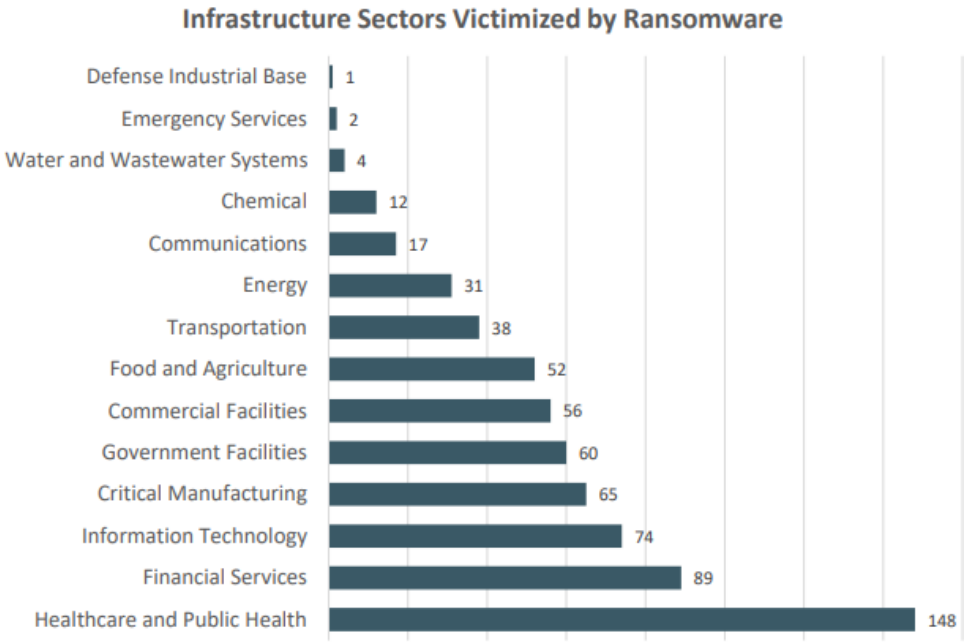
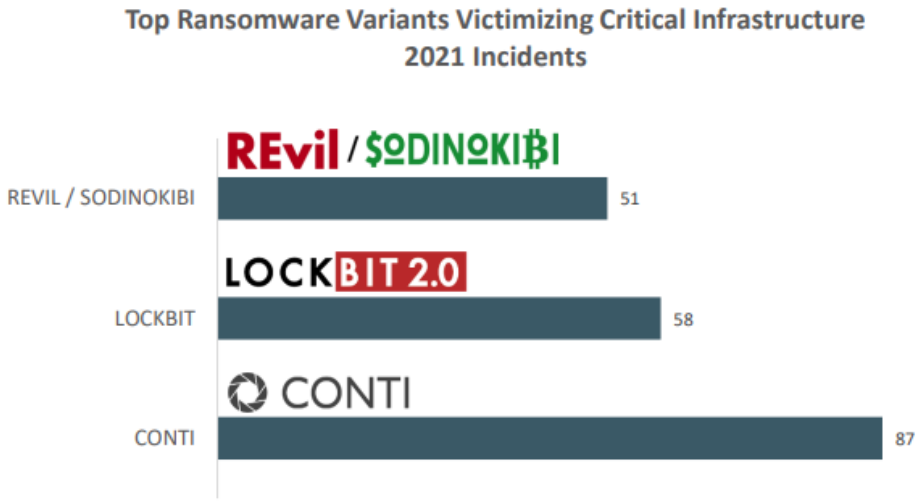
Ransomware





Russian threat actors are responsible for the top three ransomware variants

Source: FBI's 2021 INTERNET CRIME REPORT

Source: FBI's 2021 INTERNET CRIME REPORT

Vulnerabilities: The Food That Hackers Eat

Goal

Find and fix vulnerabilities before they get found and exploited

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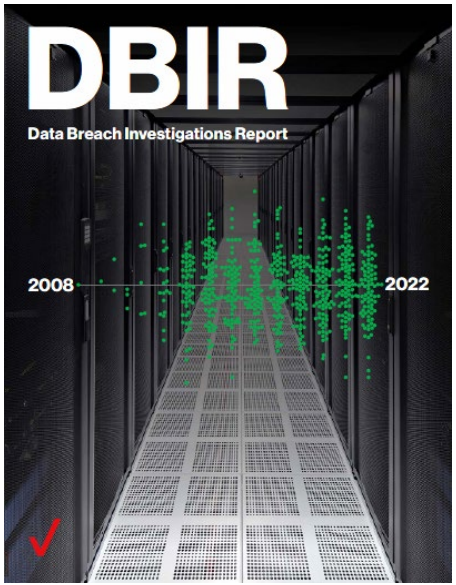
Time is of the Essence

90%	Hacks perpetrated by external actors (North America)
3	Actions to compromise (Phish, Downloader, Ransomware)
>50%	Breaches discovered through actor disclosure



More Threats
More Targeted
More Sophisticated

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Vulnerability Management Building Blocks

People

IT Security (Finders)

IT Operations (Fixers)

Tools

Vulnerability Scanners

Process

Scan Frequency

Remediation Timeliness

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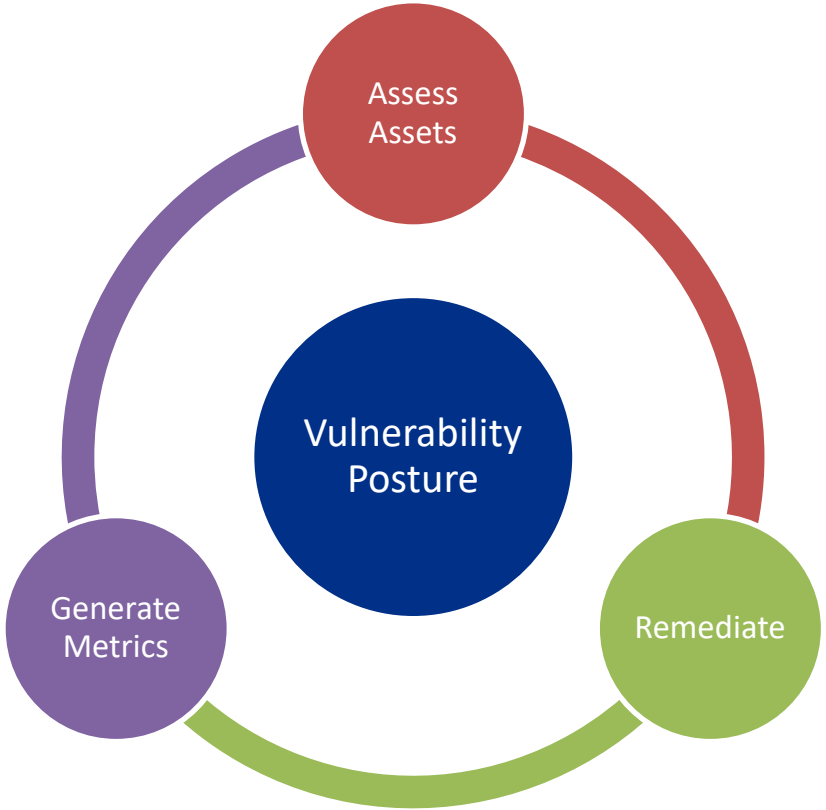
A Continuous Process

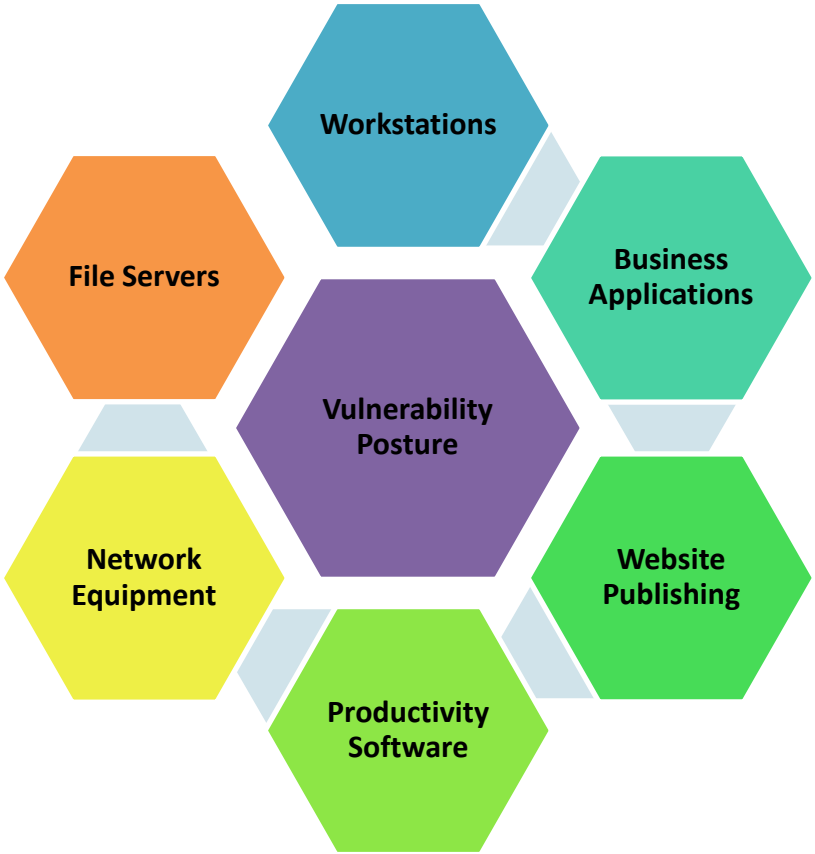
There will always be a massive inventory of vulnerabilities

The art of VM involves

- Understanding the inventory
- Prioritizing remediation
- Closely monitoring enterprise-wide risk metrics



Tip #1: Actively Manage Your IT Footprint



No software is immune from exploitable vulnerabilities

- Patch frequently
- Consider using auto update features in software, especially web browsers

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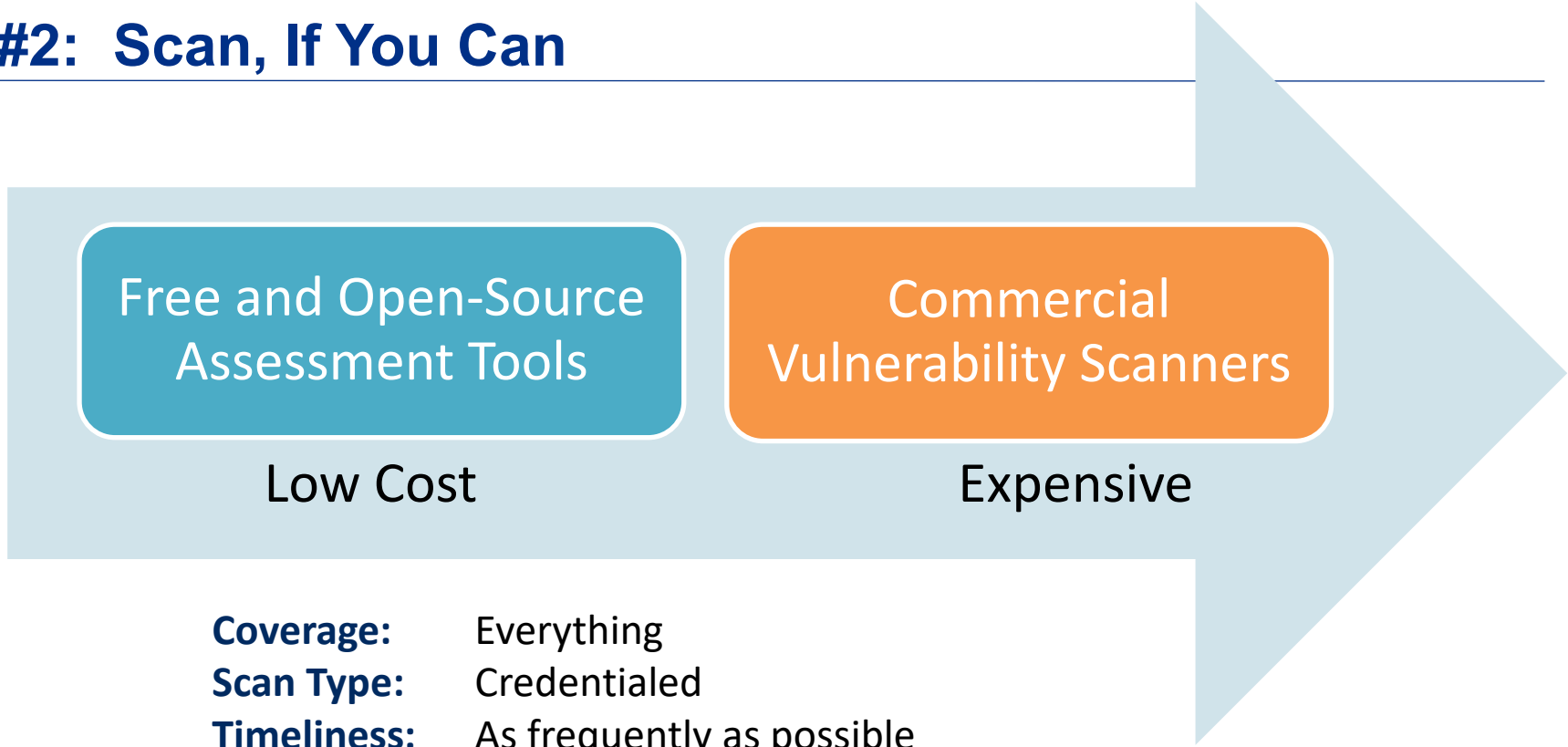
Tip #2: Scan, If You Can



Coverage: Everything
Scan Type: Credentialed
Timeliness: As frequently as possible

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Poll Question

How frequently do you scan your technology environment for exploitable vulnerabilities?

A. Daily
B. Weekly
C. Quarterly
D. Never – it only happens to the other guy

Tip #3: Keep Abreast of Threats

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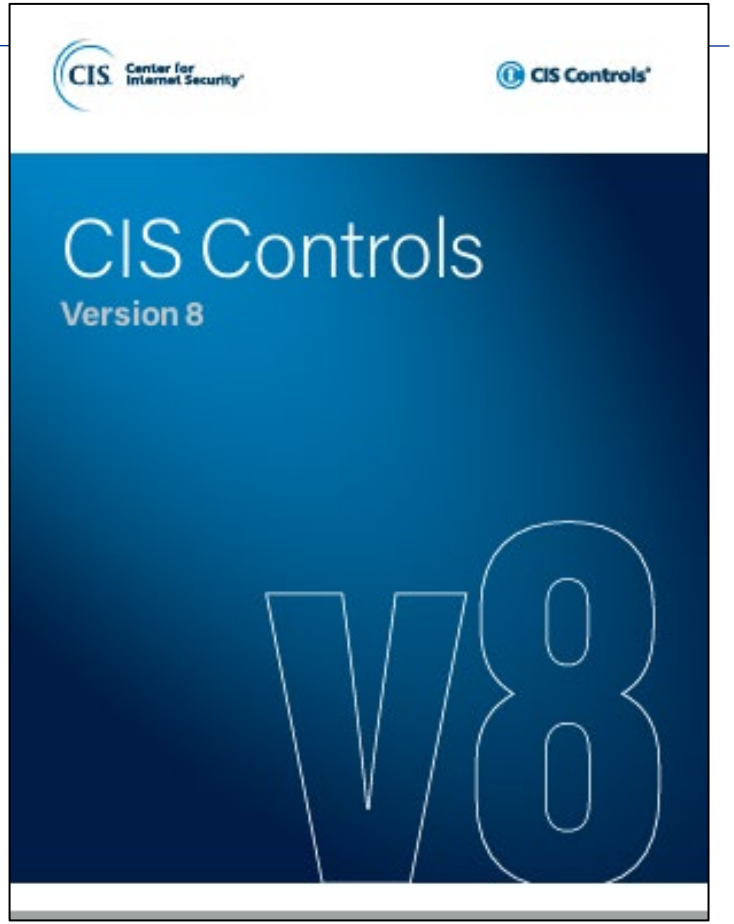
Tip #4: Practice Defense in Depth

Assess your controls against industry best practices

Tasty morsels for hackers

- Unmitigated vulnerabilities
- Simple passwords without MFA
- Ability to install software on workstations



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Tip #5: Know When to Fold Em

Cyber has become a high-risk big kid's game

Leverage IT vendors who are up to the task

- Email and messaging services
- Endpoint detection and response
- Security monitoring
- Continuous vulnerability scanning

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Tip #6: Prepare for Rough Seas

Ransomware is now a major risk

Your survival will be predicated by having robust plans

- "Air-gapped" copy of all data needed to restore operations
- Disaster recovery procedures that are regularly exercised

"In today's high-risk environment, it is no longer good enough to just be secure. Organizations also need to be resilient."

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Thank You