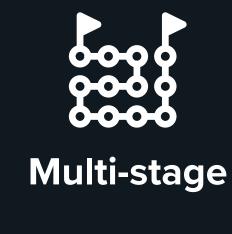
Vulnerability Management Program BEST PRACTICES



Vulnerability Management is...













A Successful Vulnerability Management Program requires:



Ownership







Management Quarterback Role The quarterback KNOWS WHO IS ABLE TO REMEDIATE vulnerabilities for each application and system.

Create a Threat and Vulnerability

The quarterback and remediation owner **WORK COLLABORATIVELY** to evaluate vulnerabilities.

Use Both Methods: Document Your Vulnerability

Program with: Policies

Management

Standards Procedures

Where to Start with **Penetration Testing?**

Automated

Vulnerability Scanning

Use **AUTHENTICATED MODE** to scan high-value resources

SCAN everything in

INFRASTRUCTURE

Use penetration testing

your environment,

including **CLOUD**

to find WHAT **SCANNERS MISS** Manual **Pentesting**

A vulnerability footprint is all

the technologies that might

expose vulnerabilities.

But, don't forget about securing and testing your internal network. Avoid a highly-protected exterior paired with an unprotected interior.

Prioritize Your

Perimeter.

A system without sensitive information can be used to attack sensitive systems.

First penetration test? Start with an external network penetration test.

Know Your Vulnerability **Footprint**

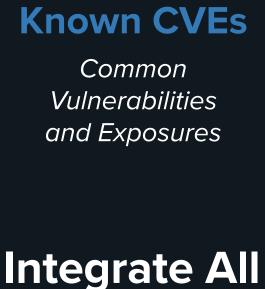
Known CCEs Architecture

Common

Configuration

and Enumeration

Understand Your Vulnerability Landscape



Sources of

Design



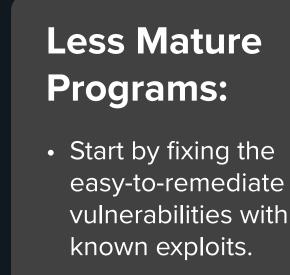
Vulnerability Data

into One System



Make the **Information Consumable and Actionable**

NETSPI NOTE: Extremely large files of vulnerabilities are unmanageable.



exploited this week.

Important System

 Set timelines and thresholds for remediation by severity. LOW **MEDIUM CRITICAL** HIGH Patch-Driven 7 days 1 month 2 weeks **Updates NETSPI NOTE:** Don't ignore older vulnerabilities. Breaches often exploit a long-present vulnerability that should

have been remediated. It's important to fix an old, medium-severity vulnerability that has been

Consider Whether a Vulnerability Threatens an

to the corporate network

Internet-facing websites

Important System or a System with Access to an

Cloud infrastructure with VPN access

Application or database in production

• Extend your program to risk-based prioritization.



NETSPI NOTE: Consider the attack path to high-risk assets. Attackers can chain together multiple vulnerabilities to move through your environment.



NETSPI NOTE:

The technology remediation

person from the application

owner is often a different

owner as listed in the

system of record.

remediate the vulnerabilities.

Assign Vulnerabilities to

and Work Closely with

Remediation Owners

Application and System

Validate Remediation Performance

such as:

our internet-facing

systems?



Identify

Vulnerabilities

Track Metrics and Report to Senior Management,

New

NETSPI NOTE: Exceptions can be delayed but CANNOT be put off forever. Scan and Penetration Test Regularly to:

remediated in a timely manner.

Track

If you can integrate your vulnerability management

automated trouble ticketing will make it much easier to

Get Approval for

Exceptions from

Exceptions occur when a vulnerability can't be

Convert technical risk into business risk, so the

CxO understands what could happen if this

Business Leadership

Find

Previously

Unknown

Vulnerabilities

system with your ticketing system, such as JIRA,

assign and track remediation.

Remediation



How many of these

critical vulnerabilities

have known exploits?

NETSPI NOTE:

Commit to an Ongoing Vulnerability

Consistently Look for Ways to Improve



Expert Today!

Management Program

Clients trust our clear and actionable remediation advice. With NetSPI you get an experienced team with consistent and proven testing playbooks. in Penetration The NetSPI Resolve™ platform correlates all vulnerability data across your organization into a single view, so you can find, prioritize and fix **Testing and** vulnerabilities faster. **Vulnerability** Speak with a Vulnerability Management Management

CONTACT US AT: SALES@NETSPI.COM, NETSPI.COM OR 612.465.8880

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Threat and vulnerability management is a program (not a project) — it never ends.

Your Vulnerability Management Program The more you can automate the better, because spreadsheets, emails and SharePoint don't work for vulnerability management for a large company. Automation enables visibility and continuous improvement.

How long it takes us to patch known vulnerabilities on average?