

What Would Be A Good Vulnerability Management Program



It is always GOOD to know your weaknesses.....

Minimize the Risk around Vulnerable Systems and Vulnerabilities by helping you rightly and quickly identify the vulnerabilities and helping you prioritize efforts towards the high risk items first.

..... and its the BEST to timely take care of them!

Areas of Focus for a Good Vulnerability Management Program

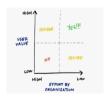




Sound Inventory Management System & Practices (A)

Speed and Efficacy of Vulnerability Identification (B)





Risk Prioritization around Relevant Aspects (C)

Promptness in Remediation (D)



Important Questions To Get You There







- В
 - How soon I get to know about my vulnerable systems?
- C
- Which are the potential low hanging fruits?
- D
- How much time I have to patch the vulnerabilities?
 SLA for Closure







Is there enough bandwidth to patch all vulnerabilities?







So, which vulnerabilities should I patch first?

Maturity Dimensions

EXL's Vulnerability Management Program Maturity Synopsis



Erstwhile Practices

Coverage

Which all systems are under scope

Depth

Outside vs inside view

Frequency

How soon to assess the environment

IndependenceWho should do the assessments

LifeCycle *Pre-Production vs Post-Production*

Response Priority

Which one to focus on

All Production Environment

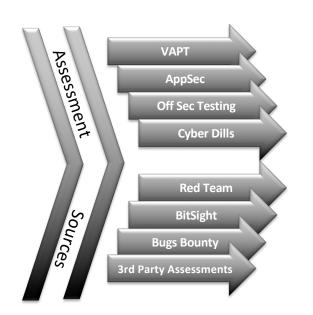
- **Unauthenticated Scans** Remote scanning
- Periodic (YY \rightarrow QQ \rightarrow MM)
- InfoSec Team
- Ongoing
- Same SLA for Internal & External
 - + Critical and High Severity
 - + Public Facing

Maturity Steps

- Both Prod and Non-Prod
- **Authenticated Scans**
- Local (Cloud Agent) scanning **Policy Compliance**
- Real-time
- Technology Team → InfoSec Team
- Pre-Production + Ongoing
- Differentiated SLAs
 - + Asset Criticality (Context)
 - + Risk Intelligence (Context)
 - + Threat Intel (Context)

Risk and Context Driven – Remediation Approach

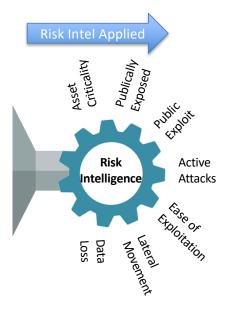








Vulnerabilities basis CVSS Score



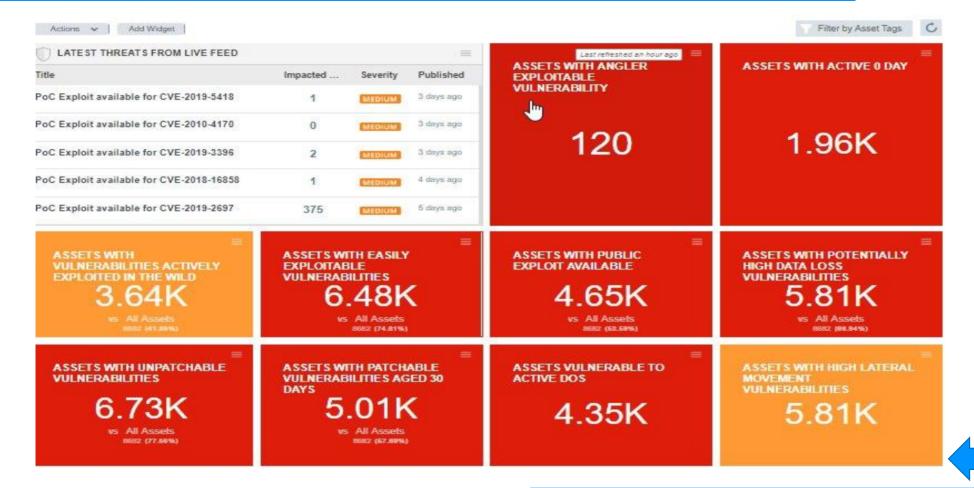
Prioritized Vulnerabilities



Vulnerabilities basis Risk Intel

RISK VIEW OF THE VULNERABILITIES





Next Level - Risk Intel + Threat Intel



Fire Eye GTI



HP RepSM



Malware Analysis

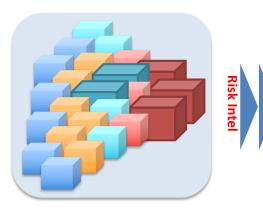


MSSP Intel

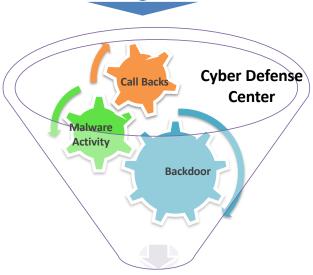


Threat Intel





Vulnerabilities basis
Risk Intel



Risk Intel + Threat Intel = P0 Tickets

ACHIEVED BENEFITS



□ Comprehensive Coverage of Threat Landscape
 □ Real Time Risk Status & Dashboard
 □ Lesser False Positives
 □ Prioritized Real Critical Risks Remediation
 □ Self Capable Technology Team – no dependency on InfoSec team
 □ Quick Identification, Remediation and Validations
 □ Centralized Policy Compliance management
 □ Higher Team Efficiency through Technology Automation and Process Enhancement



THANK YOU