Navigating the Maze

Making Sense of Vulnerability Risk Indicators

Who We Are



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Joe Luna



Who We've Helped

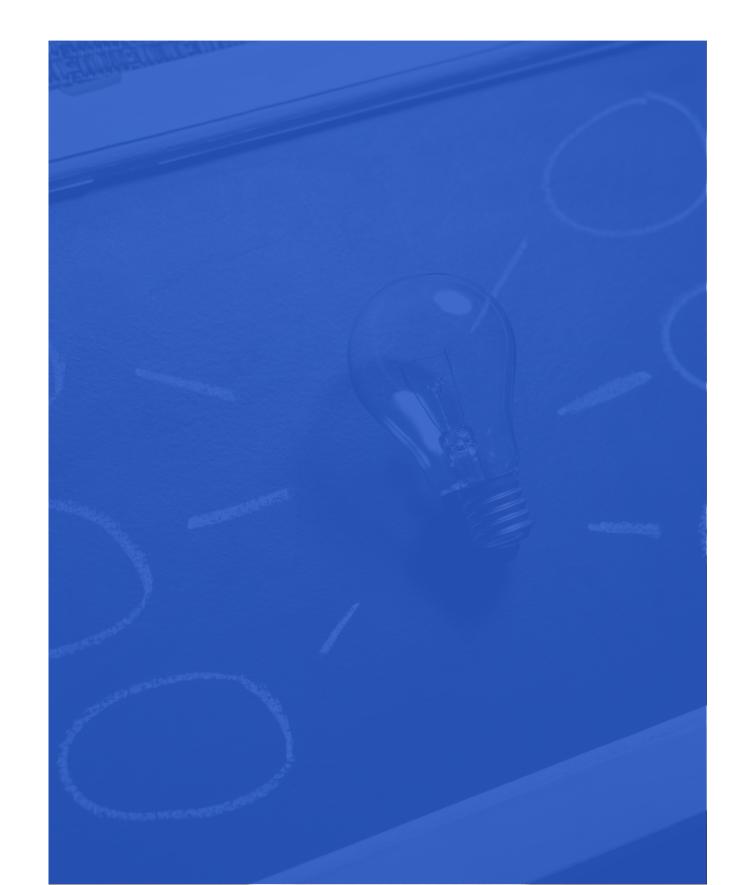


houzz



AHCVT tyco





What we'll cover

- Vulnerability Context
- NVD Challenges
- The Tools
- Lagging Indicators
- Prioritization
- Easy Wins

Vulnerability Context

NVD Dashboard

CVEs Received and Processed

Time Period	New CVEs Received by NVD	New CVEs Analyzed by NVD	Modified CVEs Received by NVD	Modified CVEs Re- analyzed by NVD
Today	85	5	0	1
This Week	208	15	0	2
This Month	2229	1305	0	743
Last Month	2609	2790	0	360
This Year	4838	4095	0	1103

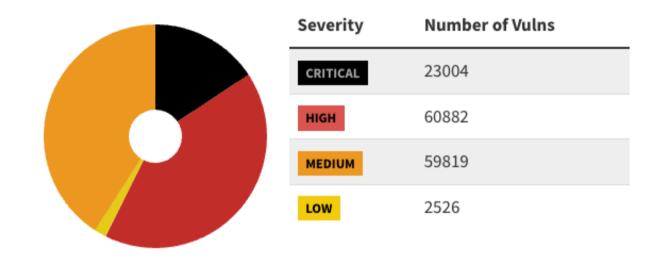
CVE Status Count

Total	239627
Received	30
Awaiting Analysis	1268
Undergoing Analysis	100
Modified	93109
Rejected	13968

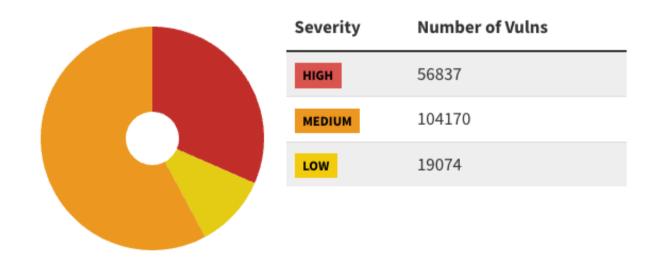
NVD Contains

CVE Vulnerabilities	239627
Checklists	673
US-CERT Alerts	249
US-CERT Vuln Notes	4486
OVAL Queries	10286
CPE Names	1259970

CVSS V3 Score Distribution



CVSS V2 Score Distribution



Awareness Overload

Existing CVE's
New CVE's
Vendor Advisories
Zero-Days
Ransomware Activity
APT Activity

RELEVANIA

Organization

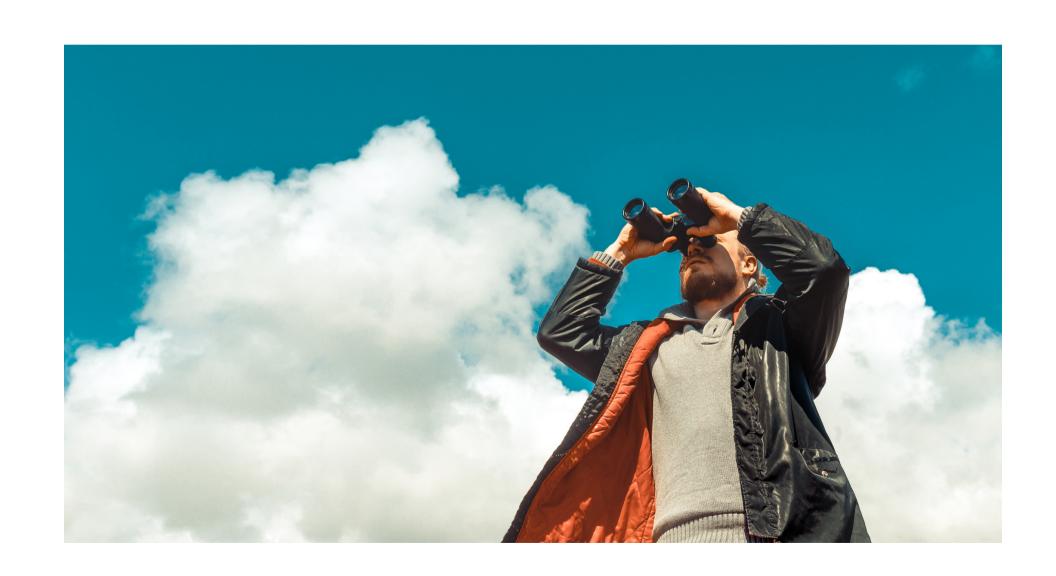
Tools at our disposal

Industry, community, and vendor risk ratings/metrics

NVD, CVE, CVSS, CWE

CISA KEV, EPSS

Vendor Ratings



NIST & The NVD

The industry standard repository for vulnerabilities

CVSS

CWE

Delay

Accuracy



LAGGING INDICATORS

Exposure Window and Risk Tolerance

- Delayed Response
- Missed Opportunities for Mitigation
- False Sense of Security
- Compliance Risks

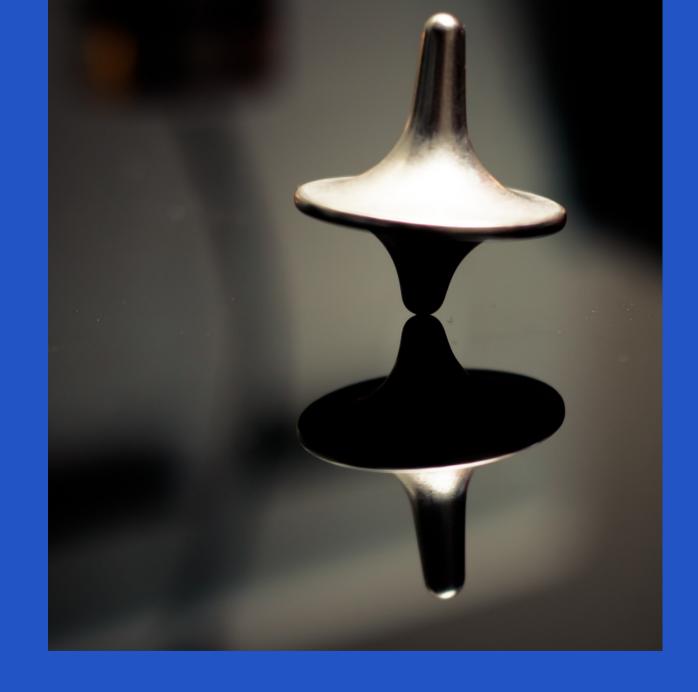
19 days 44 days 23

CISA KEV

EPSS

23 days

Scanners



Live Demo

Stop reducing vulnerability risk to a single score.

Prioritizing

Reducing the noise

Know Your Assets

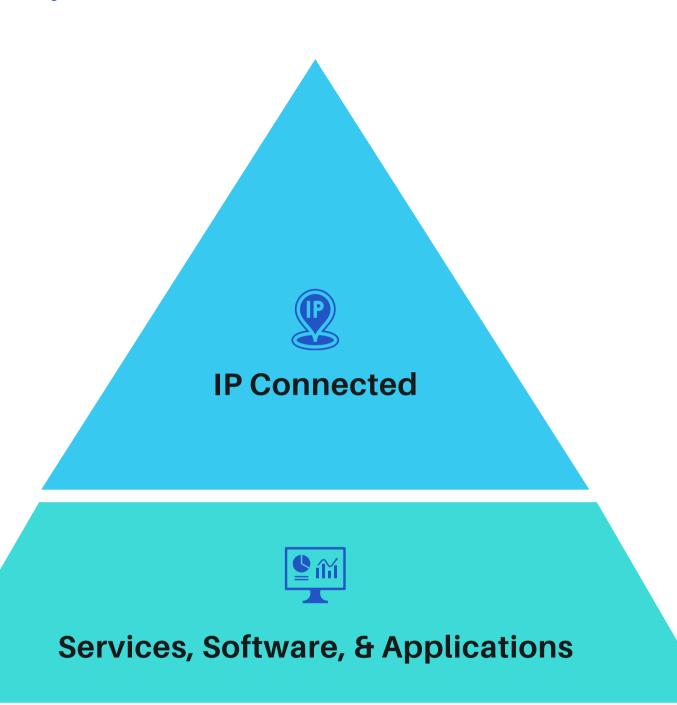
NVD, CVSS, & CWE

CISA KEV / News / VIP-TIP

EPSS?



Know Your Assets





3rd Party Libraries, Frameworks, & Dependencies

Vulnerability Prioritization

Awareness with Insight drives Action

Awareness

News, Peers, Advisories, NVD, CISA KEV, etc

Action

Policies, Procedures & Playbooks

Insight

Deployed solutions & technologies

Catalyst

Awareness vs Technology Based Signals

Awareness

Awareness requires legwork.

You need to keep a pulse on what's happening.

NVD Advisories CISA

News

TIP/VIP

Peers & Social Media

Insight

What tools can you rely on for insight?

Asset Inventory Software Inventory

Vulnerability
Scanners

SBOM

Challenges

Insight is useless without **Awareness**

Awareness inactionable without Insight

No action without Insight + Awareness



Insight Pitfalls

Schedule

Would you run AV once a week?

Agents

False negatives, unsupported assets

Port Coverage

False negatives, skipping ports

Excluded Checks

Missing valuable insight

Easy Wins

CNAs & Vendor Advisories

CVSS & CWE

Leverage TIP/VIP



Easy Wins

Asset & Software Inventory

Edge Device/App List

Vulnerability Scanning

SBOM



Easy Wins

Policies, Procedures, Playbooks

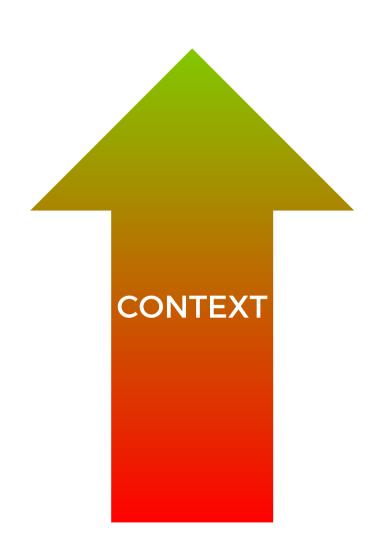
Tabletop - Core Edge Device

Tabletop – 3rd Party Lib

Tabletop – Software



Prioritizing

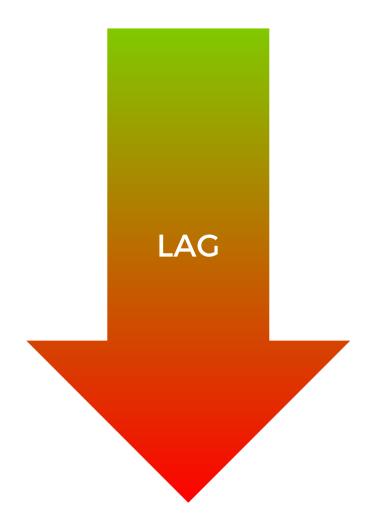


CVSS, CWE, Advisories, News, Social Media

CISA KEV / VIP-TIP

Vulnerability Scanner Signature & Score

EPSS Score / Percentile



Context is King

Is the vulnerability being actively exploited?

Is it used in ransomware or by APT groups?

Does it have publicly available POC's?

Does it result in RCE? Code Injection? Authentication bypass?

Live Demo #2

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Getin Touch



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