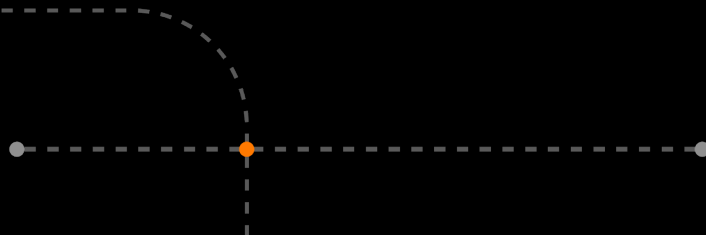


Improve the effectiveness of your vulnerability management strategy

Jesper Madsen – Head of Vulnerability Operations Center Sweden

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The attack surface continues to grow and diversify...

80% are patched in
+30 days*

* Security Navigator 2023

26 500+
new vulnerabilities in
2023

25000+ in 2022

19000 in 2021

18000 in 2020



The attack surface continues to grow and diversify...

...so where do we start?



Context is key

26 500+
new vulnerabilities in
2023

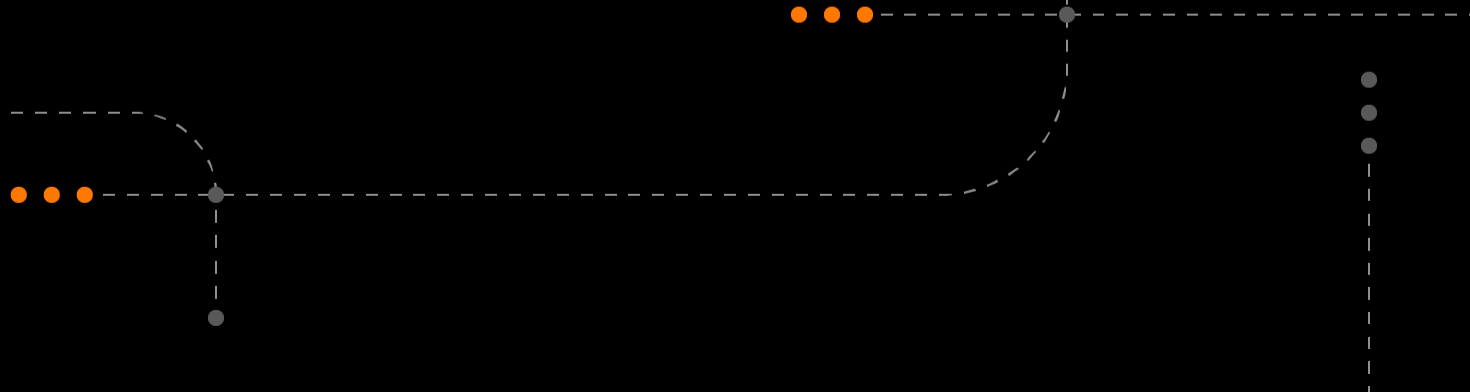
CISA Known Exploited Vulnerabilities

1114



Incident response story

- Information passed by Interpol from a seized attacker server which contained the output for the clients Active Directory.
- Immediate containment of the affected Domain.
- Cobalt Strike Beacons not one but two on the Domain controllers and servers.
- Found the insecure Citrix gateway that was the initial point of entry.



“That’s impossible
because we don’t
have any Citrix...”

Same stuff, different year. Why is this still so hard?



Challenges

- Volume of vulnerabilities
- Prioritization
- Patching
- Resources
- Complex IT environment
- Lack of visibility
- Threat intelligence
- Organisation culture



Common misconceptions

- We will find too much if we scan everything – lets start small
- We need to patch all vulnerabilities before we scan again
- Automated patching solves all vulnerabilities
- Vulnerabilities are only ITs problem
- Windows is most vulnerable so let's run mac and be safe
- The high CVSS vulnerabilities are our highest priority

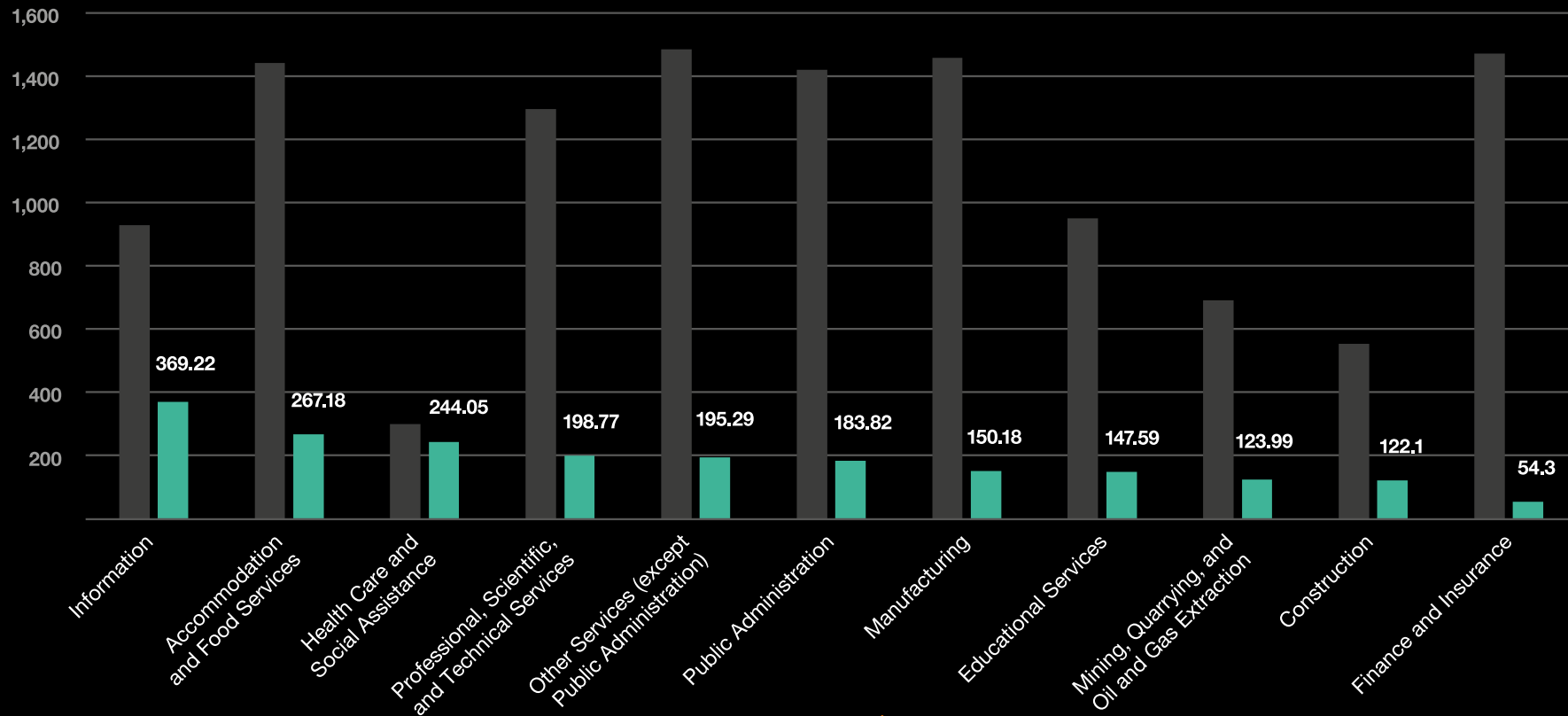


The problem is clear, how to solve it is not

Age of findings by industry

Average and max. age of Unique Findings for different verticals (ordered by average)

■ Average age ■ Maximum age



Overcoming the challenges

Continuous
Asset discovery
and Vulnerability
scanning

Risk based
Prioritization

Patch
management
strategy

Visibility for
correct
stakeholders

Communication

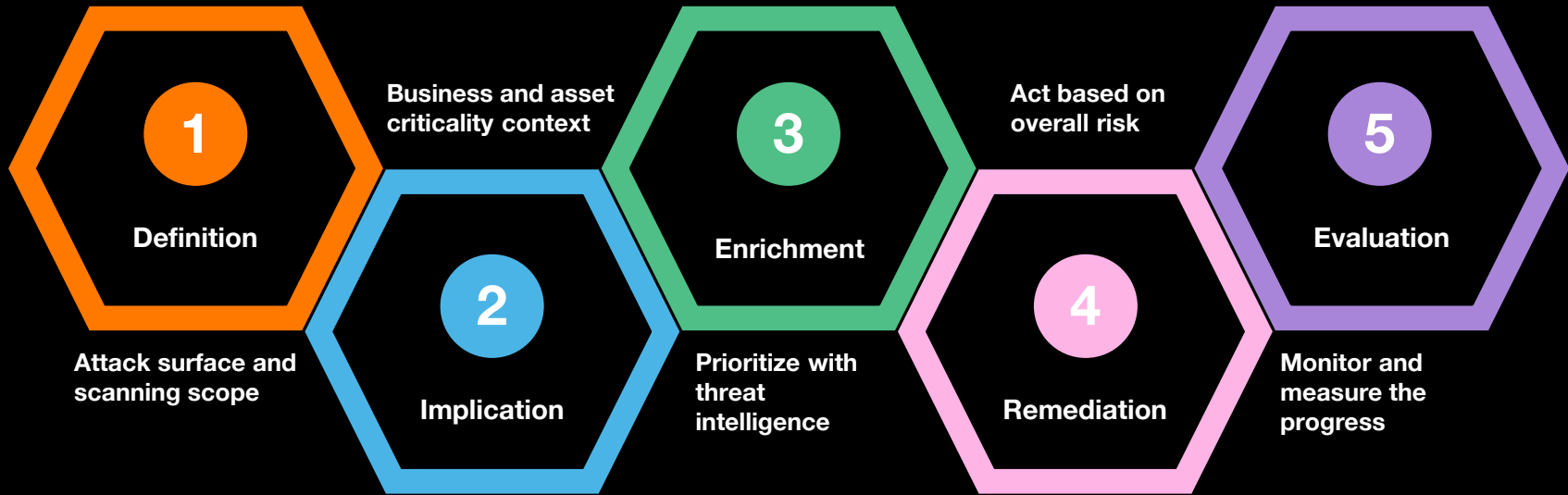
Threat
intelligence

Business context and threat intelligence correlated to focus on the real organizational risk



Our approach

How to embrace risk-based vulnerability management



Overcoming the challenges



Strategic importance

- Get everyone on board
- The threat is against the organisation
- Advocate for change
- Understanding the risk

Conclusion

Visibility

Knowing what you have is half the battle. If you don't see it, you can't do anything about it.

1

Tools

Make sure your tools use risk values and combine internal and external factors to help you make data driven decisions.

2

Remediation

Fix your highest risks first. Then work your way down.

3

It's never too late to start

Even if you have never made a scan, you can still start today, and go fix your top risks regardless of how many vulnerabilities you have.

4

Check your environment!



**SCANNING
SCHEDULES AND
SCOPE**



**PATCH
MANAGEMENT
ROUTINES**



**ORGANISATIONAL
AWARENESS**



**STAKEHOLDER
VISIBILITY**



**THREAT
INTELLIGENCE**

Make sure to

Know yourself

Orange Restricted



Orang Cyberdefense Live

Register as an early bird to seize
your chance to **win** one of **5**
Shokz headphones.

Register as an early bird



Orange Cyberdefense