

[ DATA PROTECTION ]



# Building Cyber Resilience for the iDempiere Environment

# About Me



**Aishwarya Gore**

**Ethical Hacker and  
Cyber Security Professional**

I am an electrical engineer with a passion for cyber security.

6 years of experience in VAPT, Security Audits, Risk Assessment & Management, Compliance Audits.

## **Certifications –**

CEH, CISA, HIPAA, ISO27001 LA, MITRE ATT&CK Defender, Executive Vulnerability Management.

# The future is Open-source



## But, IS IT SECURED?

In 2022, the National Vulnerability Database had **206059** entries. This means **more than 560 new vulnerabilities were found per day.**

**80%** of **exploits** are published before the CVEs are released. The average gap between the publication of an exploit and the corresponding CVE is **23 days.**

**60%** of data breaches are caused by the failure to apply available patches.

A study shows that **84%** of companies have **high-risk** vulnerabilities half of which could be removed with a simple **software update.**

9 CRITICAL

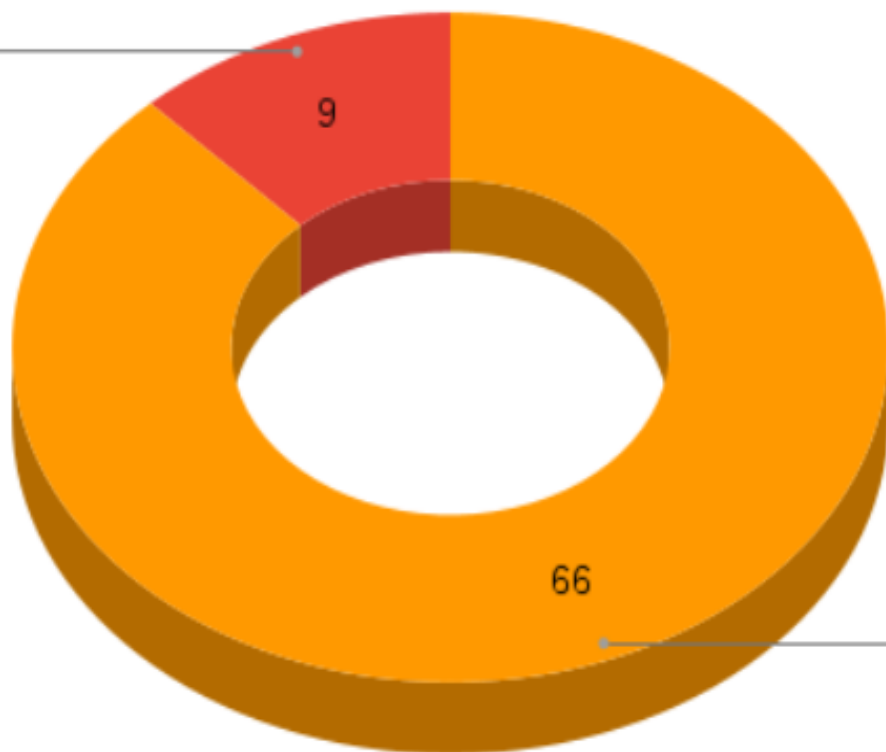
66 IMPORTANT

0 MODERATE

0 LOW

Microsoft patched 75 CVEs in its February 2023 Patch Tuesday Release, with nine rated as critical and 66 rated as important.

Critical  
12.0%



Important  
88.0%



## Top 10 Vulnerabilities In 2022

Log4Shell

Follina

Spring4Shell

Google Chrome Zero-Day

F5 BIG-IP

Microsoft Office Bug

ProxyNotShell

Zimbra Collaboration Suite Bugs

Atlassian Confluence RCE Flaw

Zyxel RCE Vulnerability

## OWASP TOP 10 SECURITY RISKS & VULNERABILITIES

1

**Broken Authentication**

2

**Injection**

3

**XML External Entities (XXE)**

4

**Sensitive Data Exposure**

5

**Security Misconfiguration**

6

**Broken Access Control**

7

**Insecure Deserialization**

8

**Cross-Site Scripting (XSS)**

9

**Insufficient Logging and Monitoring**

10

**Using Components with Known Vulnerabilities**

# iDempiere Environment

MySQL, MariaDB, MSSQL,  
PostgreSQL, Oracle

AWS, Azure, GCP, OpenStack,  
OpenNebula

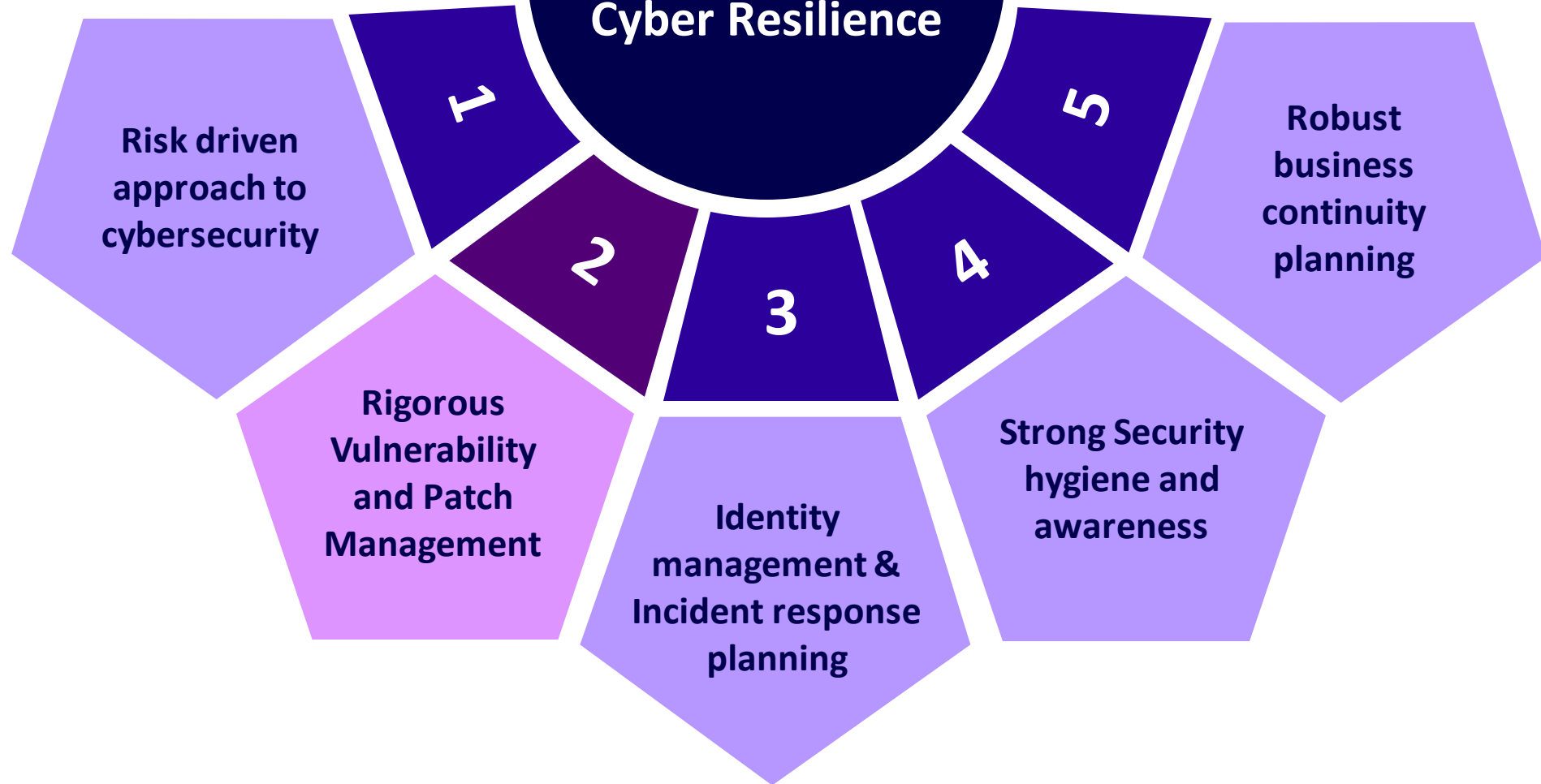
Nginx, Apache, Vmware, HANA, IIS

Jquery, AngularJS, VueJS, ReactJS,  
NodeJS, JRE, JDK

Open VPN, ExpressVPN, NordVPN,  
AWS/Azure VPN

Proxy – Zscaler, Fortinet, PaloAlto,  
Checkpoint, Cisco, Symantec

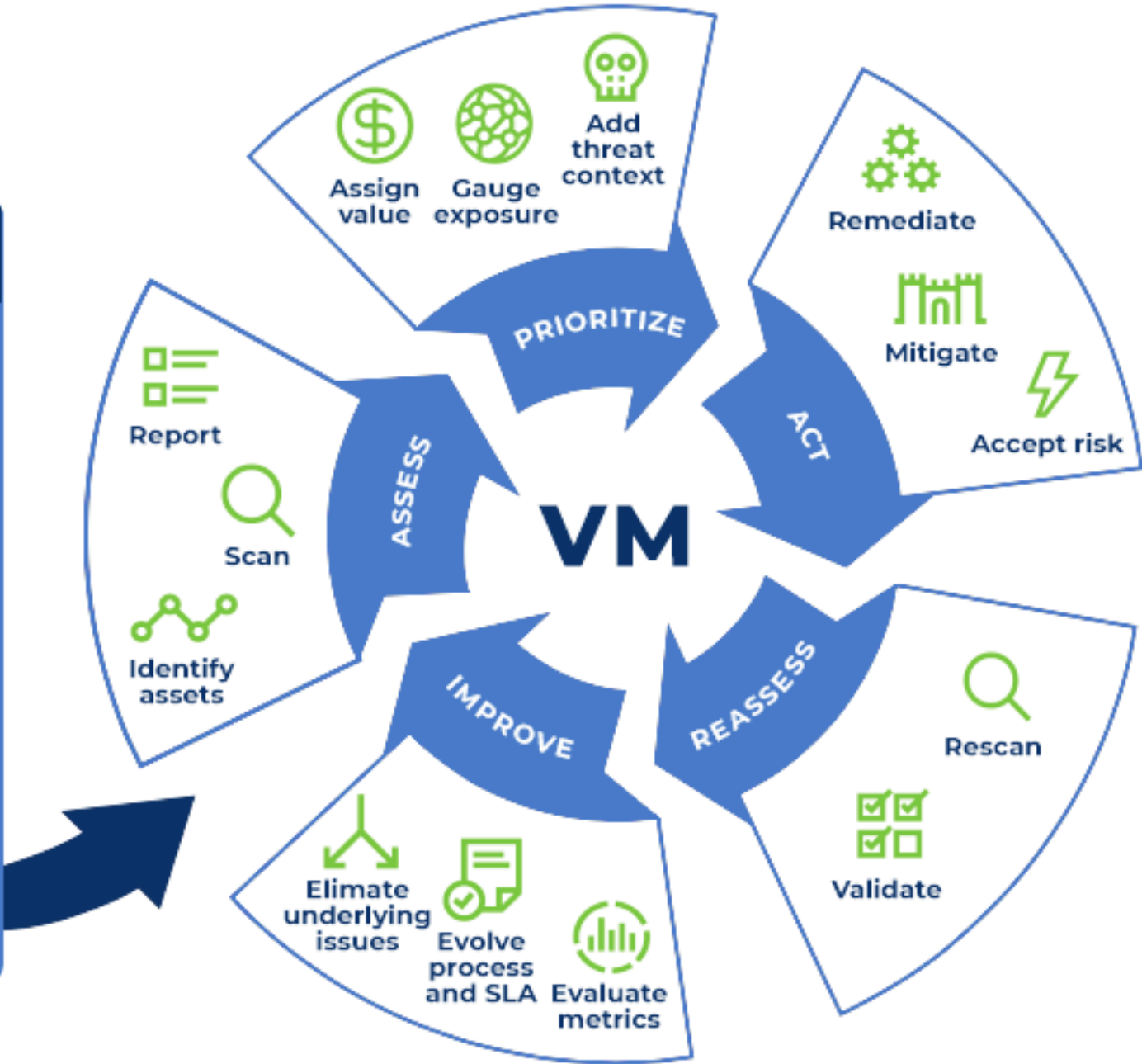
**Recommendations  
for building  
Cyber Resilience**





## PREWORK

-  Determine scope of program
-  Define roles and responsibilities
-  Select vulnerability assessment tools
-  Create and refine policy and SLAs
-  Identify asset context sources



## Advantages of Continuous Vulnerability Management



**Accurate visibility of the attack surface at all times**



**Faster detection and mitigation cycles**



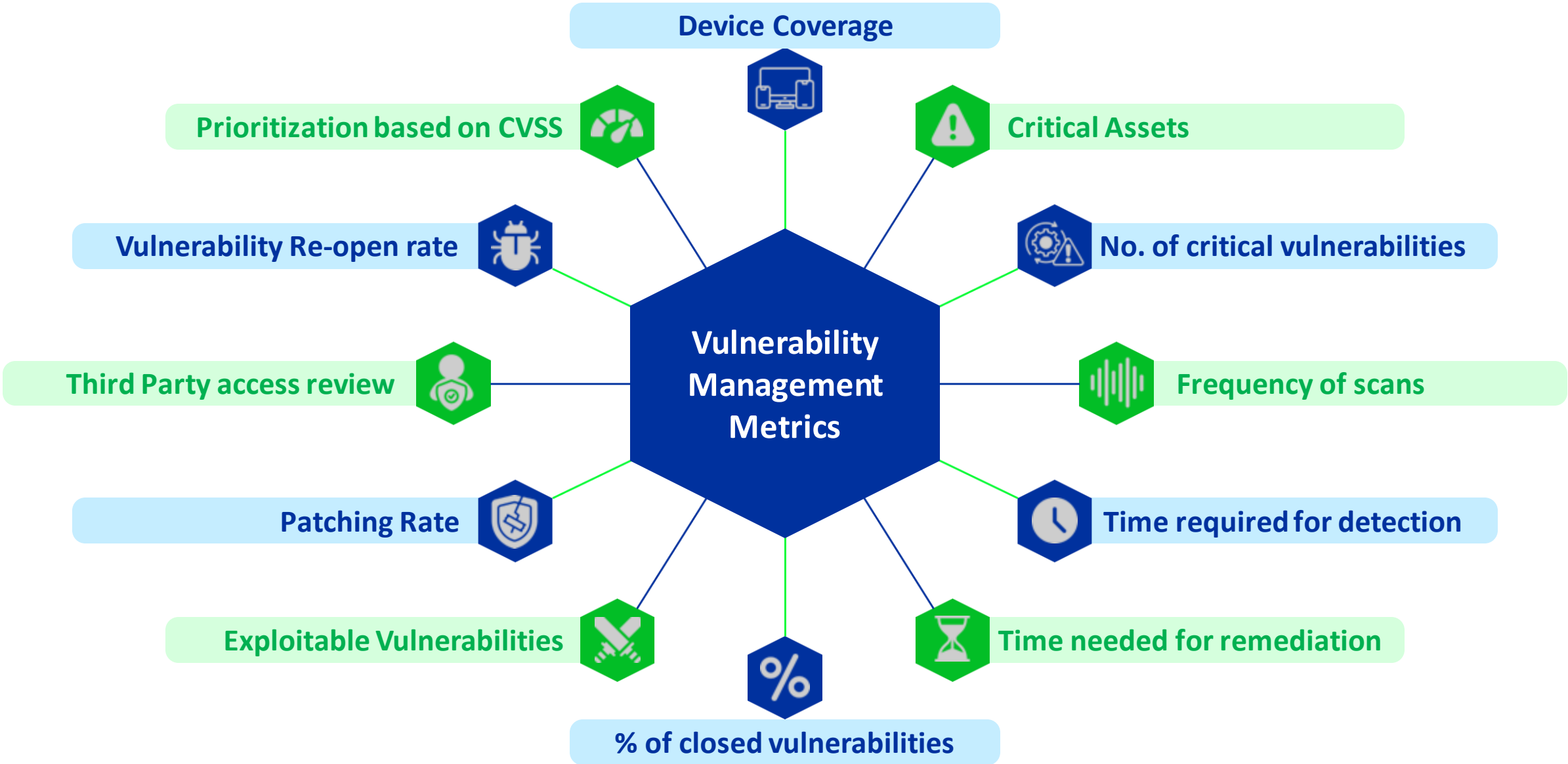
**Effective utilization of IT resources for configuring scans**

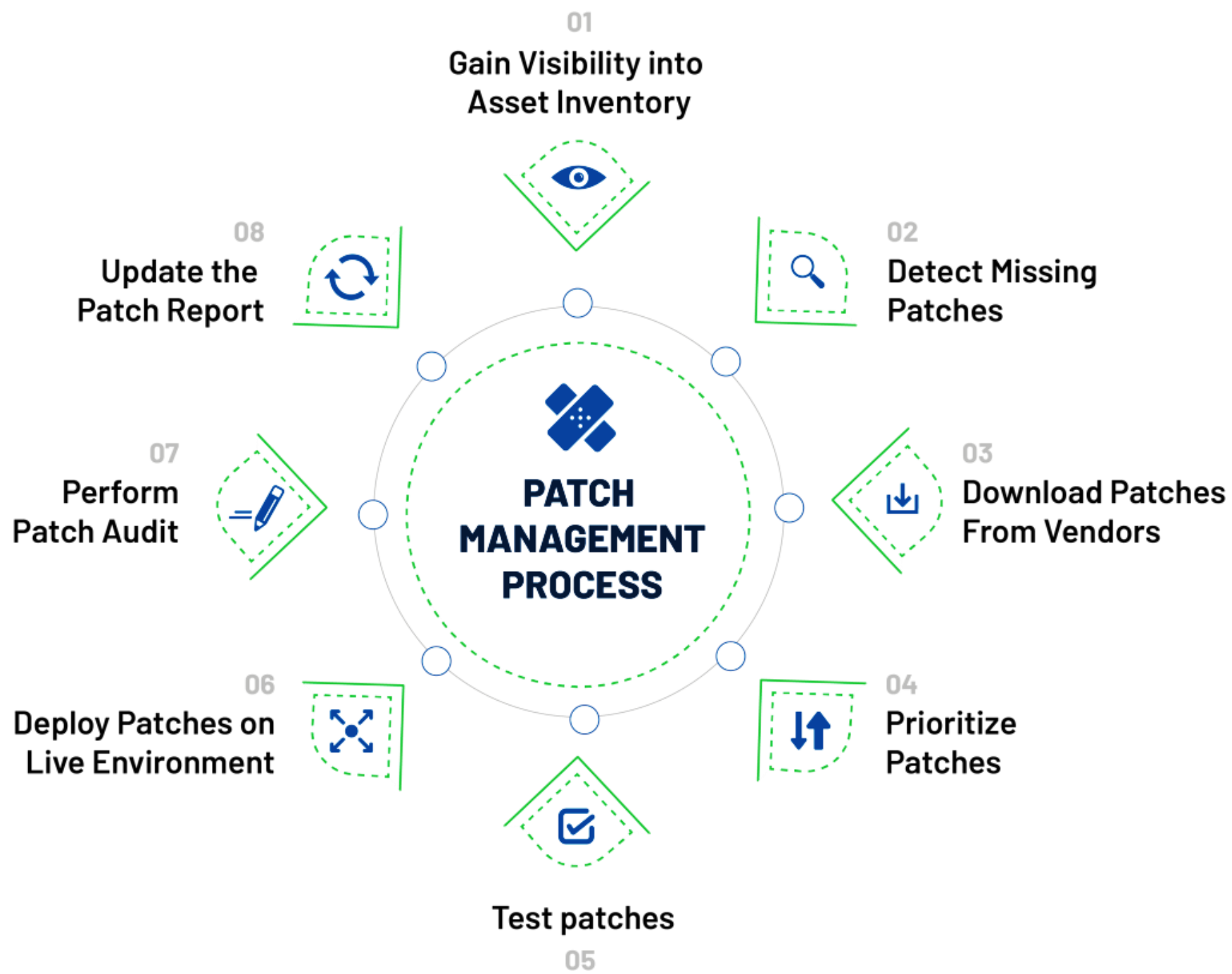


**Continuous compliance with security standards**



**Reduced team fatigue and improved productivity**





# Incident Response



# THANK YOU!

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