Coforge CyberSecurity Services

# Cybersecurity Monthly Newsletter

December 2023

Issue 25

## In this issue….

*In today's ever-evolving digital landscape, safeguarding organizations against cyber threats has become a paramount priority. To address this critical concern, we are thrilled to introduce our latest newsletter on Attack Surface Management (ASM). This comprehensive resource aims to shed light on the significance of ASM, its workings, and the cutting-edge solutions we offer to empower your cybersecurity defenses.*

*As technology advances, so do the tactics of malicious actors seeking to exploit vulnerabilities in our digital infrastructure. Attack Surface Management plays a pivotal role in identifying, assessing, and reducing these potential entry points, effectively fortifying your organization against potential attacks. From vulnerability scanning tools to robust network segmentation, our newsletter delves into the core solutions that aid in comprehensively managing your attack surface.*

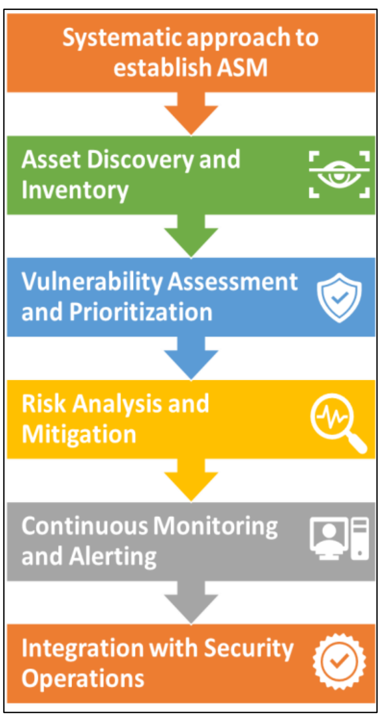
*Join us on this journey to explore the dynamic realm of ASM and learn the best practices in reducing security risks. Let's work together to fortify our digital frontiers and ensure a secure and resilient future for our businesses.*

## What is Attack Surface Management and why is it required?

**Attack Surface Management (ASM)** is a proactive cybersecurity practice that identifies, assesses, and minimizes potential vulnerabilities an organization may face from cyber threats. By comprehensively analyzing the attack surface, which encompasses all potential entry points for attackers, ASM aims to fortify an organization's digital defenses.

In today's ever-changing threat landscape, ASM is crucial for several reasons:

- **Risk Mitigation**: ASM enables organizations to detect and address vulnerabilities proactively, reducing the likelihood of successful cyberattacks.
- **Continuous Adaptation**: The evolving nature of cyber threats necessitates constant monitoring and adaptation of security measures, which ASM facilitates.
- **Compliance and Data Protection**: ASM helps organizations comply with regulatory requirements and safeguard sensitive data from unauthorized access and breaches.
- **Internal Threats**: ASM also focuses on mitigating internal vulnerabilities and insider threats, enhancing overall security.
- **Business Continuity**: By minimizing security incidents, ASM contributes to uninterrupted business operations and improved continuity.
- **Cloud Security**: As organizations embrace cloud services, ASM aids in managing the security risks associated with cloud environments.
- **Incident Response**: With a better understanding of their attack surface, organizations can develop effective incident response plans.



Systematic approach to establish ASM

Asset Discovery and Inventory

Vulnerability Assessment and Prioritization

Risk Analysis and Mitigation

Continuous Monitoring and Alerting

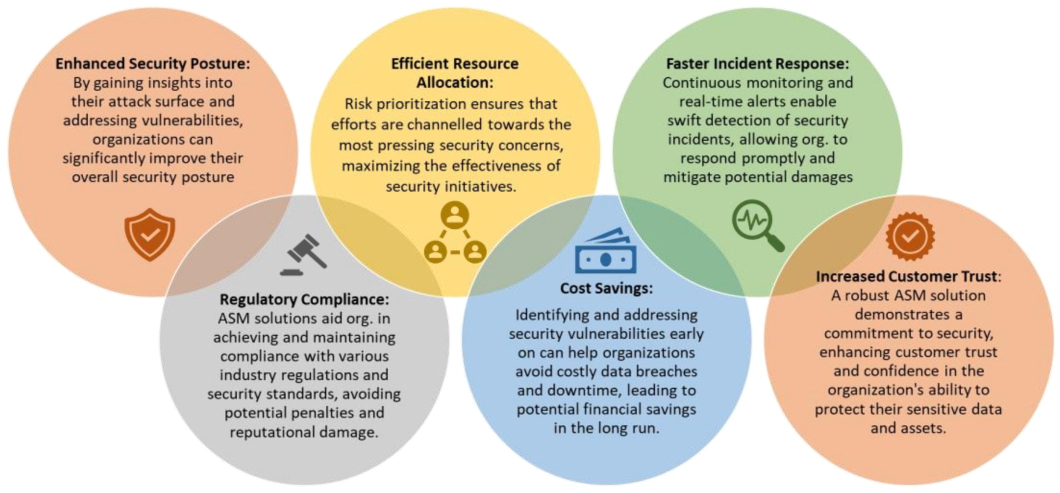
Integration with Security Operations

### Attack Surface Monitoring – Best Practices

| | | |
|---|---|---|
| 1 | Asset Discovery | Identify and catalog all assets, including hardware, software, web applications, APIs, and services, to have a complete understanding of your attack surface |
| 2 | Vulnerability Scanning | Regularly perform automated vulnerability scans on your assets to detect potential weaknesses and prioritize remediation efforts |
| 3 | Risk Prioritization | Assess the risk level of each asset and vulnerability to prioritize the most critical areas for immediate attention and mitigation |
| 4 | Patch and Update Management | Establish a process for timely patching and updating of software, applications, and operating systems to address known vulnerabilities |
| 5 | Network Segmentation | Segment your network to limit the lateral movement of attackers and contain potential breaches within specific areas of your infrastructure |
| 6 | Least Privilege Principle | Limit user access and permissions to the minimum required for their roles to reduce the attack surface and potential impact of compromised accounts |
| 7 | Continuous Monitoring | Implement continuous monitoring and logging to detect suspicious activities and potential security breaches in real-time |
| 8 | Employee Training and Awareness | Educate employees about security best practices, social engineering threats, and the importance of maintaining a secure attack surface |
| 9 | Third-Party Risk Management | Assess the security posture of third-party vendors and partners that have access to your systems, ensuring they meet necessary security standards |

## ASM Features and Benefits:

Discover the benefits of advanced ASM solution: Empowering security, optimizing resources, swift incident response, compliance assurance, cost-effectiveness, and bolstered customer trust.



**Enhanced Security Posture:** By gaining insights into their attack surface and addressing vulnerabilities, organizations can significantly improve their overall security posture

**Efficient Resource Allocation:** Risk prioritization ensures that efforts are channelled towards the most pressing security concerns, maximizing the effectiveness of security initiatives.

**Faster Incident Response:** Continuous monitoring and real-time alerts enable swift detection of security incidents, allowing org. to respond promptly and mitigate potential damages

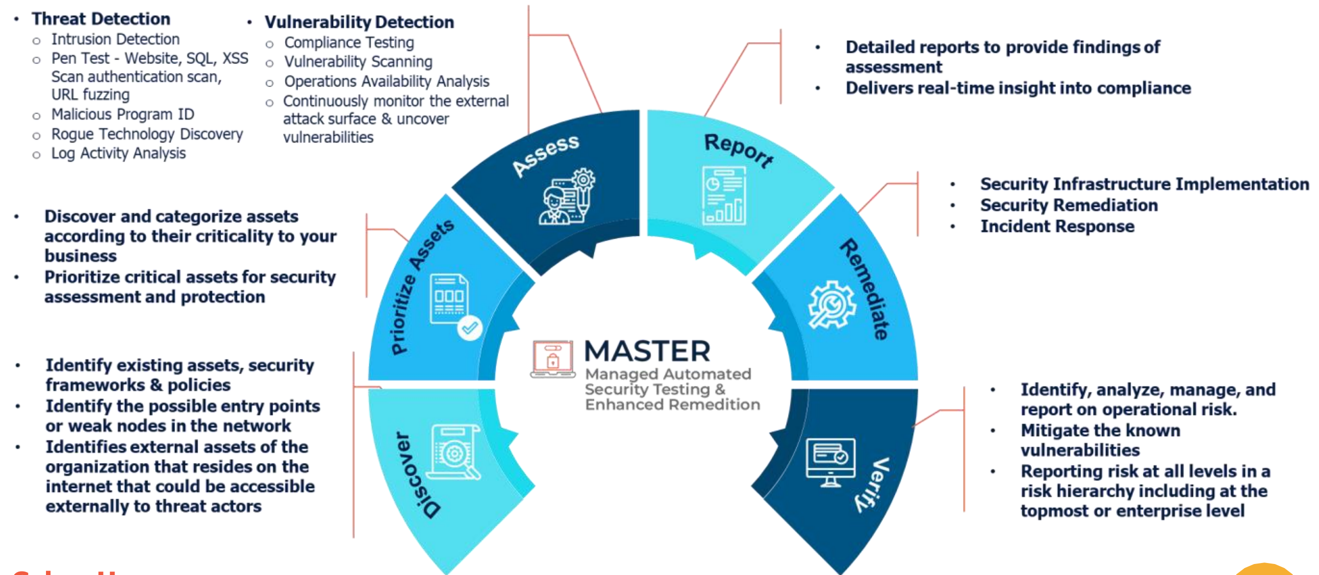
**Regulatory Compliance:** ASM solutions aid org. in achieving and maintaining compliance with various industry regulations and security standards, avoiding potential penalties and reputational damage.

**Cost Savings:** Identifying and addressing security vulnerabilities early on can help organizations avoid costly data breaches and downtime, leading to potential financial savings in the long run.

**Increased Customer Trust:** A robust ASM solution demonstrates a commitment to security, enhancing customer trust and confidence in the organization's ability to protect their sensitive data and assets.

## Coforge MASTER Offering

Coforge has an Offering called MASTER (Managed Automated Security Testing & Enhanced Remediation) which helps organizations go beyond basic scanning to define risks that are contextualized to business, analyze scan results that are powered with a predictive vulnerability intelligence platform.



MASTER
Managed Automated Security Testing & Enhanced Remedition

**Assess**

- **Threat Detection**
  - Intrusion Detection
  - Pen Test - Website, SQL, XSS Scan authentication scan, URL fuzzing
  - Malicious Program ID
  - Rogue Technology Discovery
  - Log Activity Analysis
- **Vulnerability Detection**
  - Compliance Testing
  - Vulnerability Scanning
  - Operations Availability Analysis
  - Continuously monitor the external attack surface & uncover vulnerabilities

**Report**

- **Detailed reports to provide findings of assessment**
- **Delivers real-time insight into compliance**

**Remediate**

- **Security Infrastructure Implementation**
- **Security Remediation**
- **Incident Response**

**Verify**

- **Identify, analyze, manage, and report on operational risk.**
- **Mitigate the known vulnerabilities**
- **Reporting risk at all levels in a risk hierarchy including at the topmost or enterprise level**

**Prioritize Assets**

- **Discover and categorize assets according to their criticality to your business**
- **Prioritize critical assets for security assessment and protection**

**Discover**

- **Identify existing assets, security frameworks & policies**
- **Identify the possible entry points or weak nodes in the network**
- **Identifies external assets of the organization that resides on the internet that could be accessible externally to threat actors**

## Cyber Humour

SLIDE TO THE LEFT…
SLIDE TO THE RIGHT…
CHA CHA
REAL SMOOTH
DJ IT SECURITY DESK

THIS ISN'T WHAT I MEANT WHEN I SAID I WAS CONCERNED ABOUT LATERAL MOVEMENT RISK.

For more information, contact Cybersec_svc@coforge.com

Coforge is a leading global IT solutions and services organization which believes that real transformation cannot be driven by thinking in technology terms alone. With a mission to "Transform at the Intersect" it aims to bring both deep domain and deep emerging technologies expertise to achieve real-world business impact. A focus on very selects industries, a detailed understanding of the underlying processes of those industries and partnerships with leading platforms provides us a distinct vantage. We leverage AI, Cloud and Insight driven technologies, allied with our industry expertise, to transform client businesses into intelligent, high growth enterprises.

Learn more about Coforge at: www.coforge.com