# MANDIANT

**SOLUTION BRIEF** 

# BLOCK ATTACK OPPORTUNITIES WITH ATTACK SURFACE MANAGEMENT

Enterprise-wide digital transformation strategies and cloud technologies may have simplified doing business, but they have complicated security. In a recent global survey, 75% of C-suite respondents said they worry their enterprises are now too complex to secure.<sup>1</sup>

The opportunity for breach expands with every new asset added. Taking a methodical and comprehensive approach to finding and securing digital assets can reduce the risk of a targeted attack and simplify the task of protecting an enterprise. However only 9% of security professionals said they monitor 100% of their digital assets and wider ecosystem. As digital environments become more dispersed and diverse, it becomes more difficult to track and monitor every asset, as well as their connections and dependences.

## Understanding attack surface management

Leaving assets unmonitored and unmanaged is risky. They could provide entry points into an organization's systems, networks and data. Attack surface management is the first step to understanding how and where an organization is vulnerable. It gives security teams the visibility and control they need to keep intruders out and assists with managing all digital assets.

Attack surface management is not an app, it is a proactive approach or program that focuses on detecting, monitoring and protecting every digital asset across internal and external ecosystems. It can help teams map assets and their dependencies, which is essential for digital and operational resilience. It enables organizations to uncover attack surfaces within their environment as well as those in third party locations. On average, attack surface management uncovers 30% more cloud assets than organizations knew they had.<sup>3</sup>

Without a good attack surface management program, organizations are susceptible to overt attacks such as ransomware and other types of commoditized malware, as well as more covert attacks such as creating backdoors into systems for zero-day attacks that could go unnoticed for years.

<sup>1</sup> PWC. Is your organisation too complex to secure?

 $<sup>2\ \ \</sup>underline{\text{Jon Oltsik, CSO}(\text{February 11 2022}).}\ Look \ for \ attack \ surface \ management \ to \ go \ main \ stream \ in \ 2022.$ 

<sup>3</sup> Forrester (January 2022). Find and cover your assets with attack surface management.

#### How to recognize good attack surface management

To make a real difference, your attack surface management program needs to solve real problems, including the proliferation of advanced technologies, the high demand for operational speed and continuity, and limited resources.

We have been increasingly reliant on advanced, mobile and cloud solutions to support a shift to remote work. Consequently, these types of solutions have proliferated to become not only more accessible, but also more dangerous, because they open us up to additional avenues of cyber attack.

More and more organizations are shifting to agile operations, which put a high value on rapid outcomes. This speed often comes at the cost of robust security measures and processes, which can result in misconfigured controls or a tendency to bypass security best practices.

Staff and budget constraints are common issues across every industry. Security expertise is in short supply, which means any solution must be both practical and automate as many low-level activities as possible to add value to existing staff.

#### LOG4J USE CASE: ALL IN A DAY'S WORK

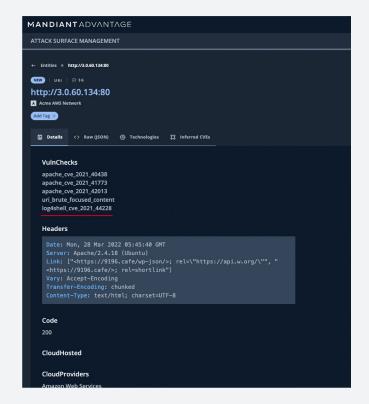
The headline-grabbing Log4j exploit last winter created vulnerabilities in millions of servers and devices due to vulnerable code in an open-source Apache library. These vulnerabilities continue to plague developers. By exploiting the vulnerability, cyber criminals can command a server to download malware when system logs get processed.

At the onset of the 2021 holiday season, the Log4j exploit was published to Github on December 9th. Within 24 hours, the Mandiant team authored an active check or a benign payload to validate vulnerability exposure on external assets. Next, the fast-acting team integrated the active check and scanned every customer's external assets. By December 13th, 2021, all customers had been notified if they were exposed to the Log4j exploit.

Thinking like a threat actor, the Mandiant Advantage Attack Surface Management helps confirm vulnerability exposures through active checks, where benign payloads are used to validate that an asset is truly exposed to exploits used in the wild. As a result, a very small percentage of Mandiant clients were affected by Log4j.

### **Published Exploit to Operationalized Intelligence**





#### **Mandiant Advantage Attack Surface Management**

The Mandiant Advantage Attack Surface Management module empowers security teams to see their organization through a potential attacker's eyes. ASM uses advanced investigative techniques and the best data sources to:

- Identify all digital connections and their connections.
   Mandiant's global intelligence and "Ident" engine examines every layer of these assets to identify the applications and services, running, where they reside in the environment, and the status of the configuration.
- Assess and prioritize the security risk each asset presents and the subsequent threat to the organization. Mandiant Attack Surface Management collects information on demand, mining over 250 data sources and enriching asset lists with intelligence to find vulnerabilities, misconfigurations and exposures to alert on identified risks.

Our list of discoverable assets includes:

- API Endpoint
- AWS S3 Bucket
- DNS Record
- Domain
- Email Address
- Github Account
- Github Repository
- IP Address
- Name Server
- NetBlock
- SSL Cert
- URLs

**Stay alert** to vulnerabilities across the external attack surface. User-friendly dashboards identify which assets have vulnerabilities and what they are, with links to supporting evidence and remediation recommendations for in-depth investigation.

#### The Added Power of Mandiant Advantage

Attack Surface Management is a module within the Mandiant Advantage SaaS platform. As such, it can deliver more power and capability than competing products. Every user has access to Mandiant security experts and the module effortlessly integrates with other Mandiant Advantage modules, including:



#### **Threat Intelligence**

Access intelligence from the frontlines of incident response to know which tactics, techniques and procedures adversaries are using right now, what the indicators of compromise are and what they're targeting.



#### **Security Validation**

Measure the effectiveness of security controls and in conjunction with Attack Surface Management, validate how well they're detecting and blocking attacks to external-facing attack surfaces.



#### **Automated Defense**

Deploy data science models to analyze billions of events and alerts from multi-vendor controls to identify real incidents, reducing false positives and saving analysts valuable time.

#### Learn more at www.mandiant.com

#### Mandiant

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#### **About Mandiant**

Since 2004, Mandiant® has been a trusted partner to security-conscious organizations. Today, industry-leading Mandiant threat intelligence and expertise drive dynamic solutions that help organizations develop more effective programs and instill confidence in their cyber readiness.

