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# Do You Need A Better Defense Strategy?

5 Questions to Ask Before You Upgrade to a SIEM Solution

# Because DIY Security Isn't Good Enough

IT security teams have to protect their organizations from cyber attackers while also addressing internal and regulatory compliance requirements, such as ISO 27001, PCI DSS or GDPR. This is no small task. If you're relying on a basic log manager or rudimentary spreadsheets to store and search through logs, chances are, you're missing critical incidents. As attackers become more dangerous and the regulatory environment continuously evolves, basic tools just can't keep up. The time is now to upgrade to SIEM.

We'll explore five key questions you should ask to help you determine the best solution for your organization.

*Modern Security Information and Event Management (SIEM) solutions go beyond the automatic collection, parsing and normalizing of logs. They apply advanced correlation and analytics to automatically detect threats, assess their severity and filter through the noise to alert you to critical events. They leverage built-in automation and intelligence to keep you protected — while simultaneously freeing up time to focus on remediation and recovery.*



**The average enterprise security team sees 200,000 security events per day.**

## What is a Modern SIEM?

Advanced Analytics for Incident Identification

Extensive data collection, storage and analytics for cloud and on-premises

Real-time correlation against vulnerability data and threat intelligence

Automatic detection and prioritization of critical threats

Behavioral analytics and anomaly detection

Automatic asset, service and user discovery and profiling



Prioritized Incidents and Highest Risk Users

# 1

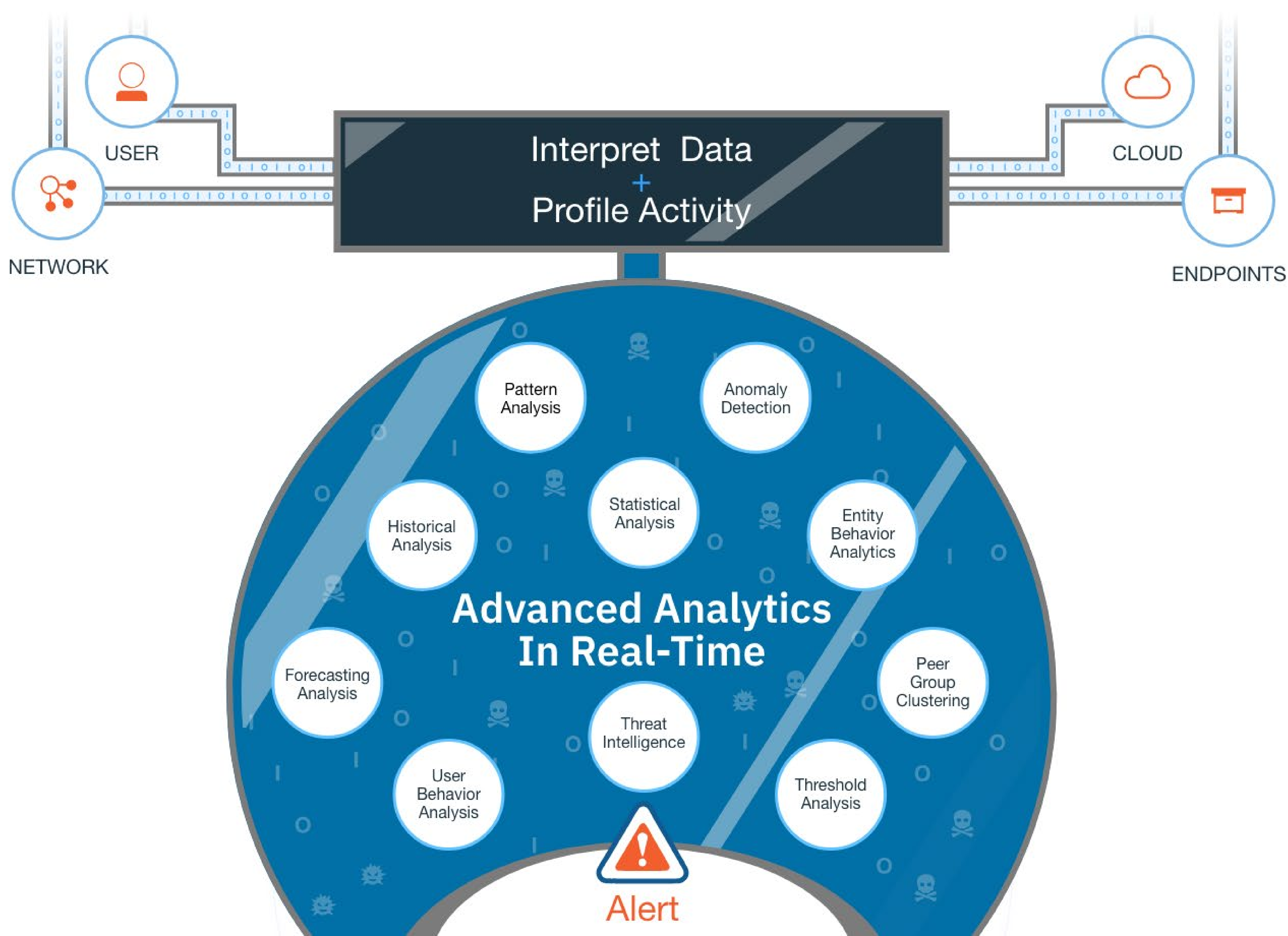
## Can You Keep Up With All Your Security Data – In Real Time?

If you're relying on spreadsheets to search and manage logs, you're likely missing real-time changes, not to mention spending significant time and effort in an attempt just to get by. A centralized modern SIEM automates log collection, normalization and analysis — but it doesn't just do those things. It also provides deeper network-level insights, in addition to logs.



**Network flow information helps you track attackers where they can't hide**

*In addition to system logs, a modern SIEM also looks at network flows, endpoint data, cloud usage and user behavior. By combining these various aspects of activity, you can get a complete picture of what's happening within your environment, understand what's normal, and use that baseline of normal to automatically identify deviations that can signal a threat.*



# 2

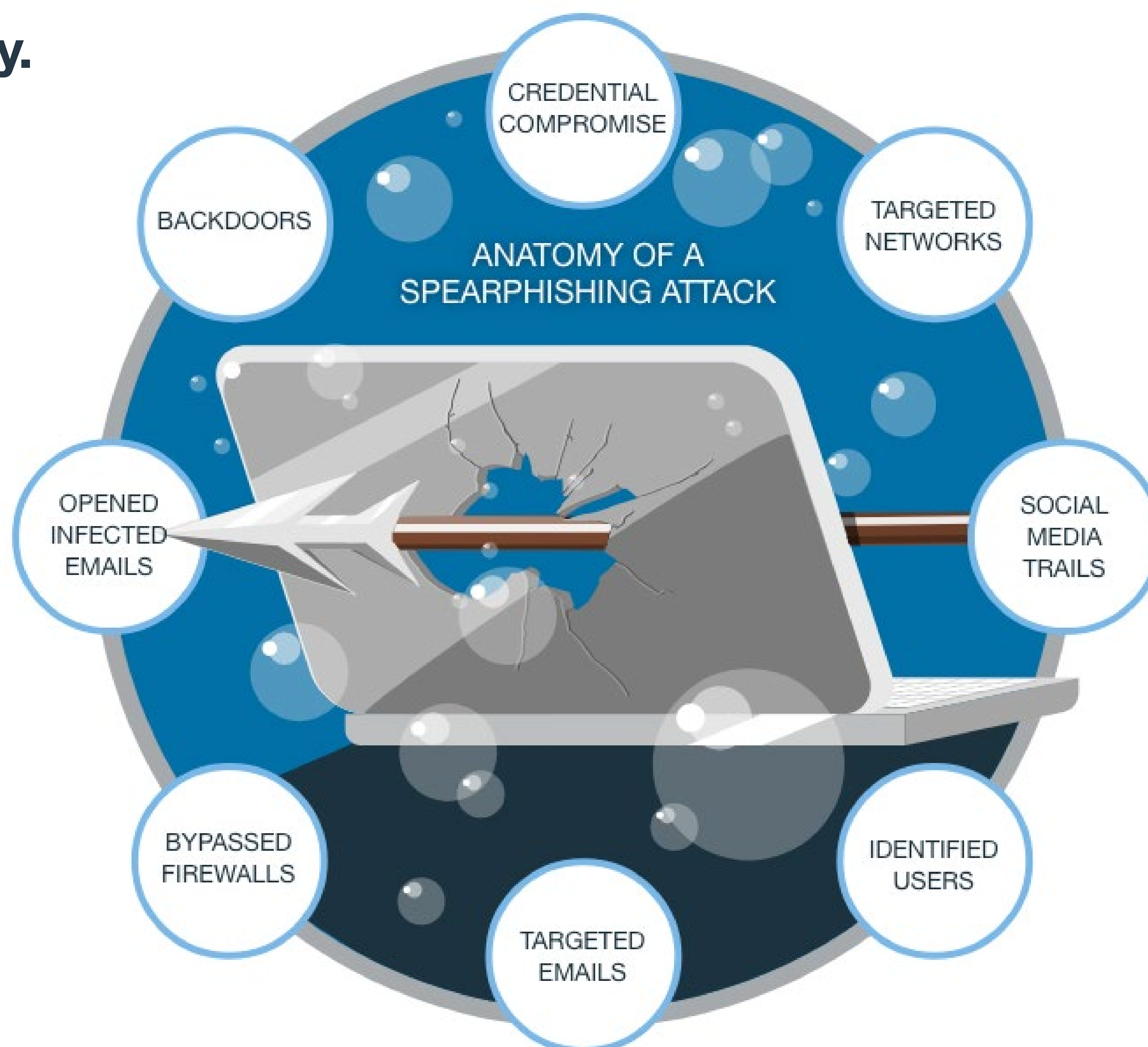
## Does Your Security Program Account for The Human Element of Threats?

Sometimes a user gets tricked into clicking a malicious link. Other times, an employee simply turns against you. Do you have a solution that helps you understand the human element?



**Of all attacks were carried out by insiders — either inadvertently or maliciously.**

*Compromised or malicious users will exhibit different behaviors than others. Spotting these outliers early can help you prevent damage. To do this, you need to understand what's normal for users in your organization and use that baseline to identify anomalies that may signal a threat. User behavior analytics that leverage machine learning can be helpful in scaling anomaly detection enterprise-wide. When part of a SIEM, you can uncover anomalous user activities — and prioritize the highest risk users capable of causing the most harm.*



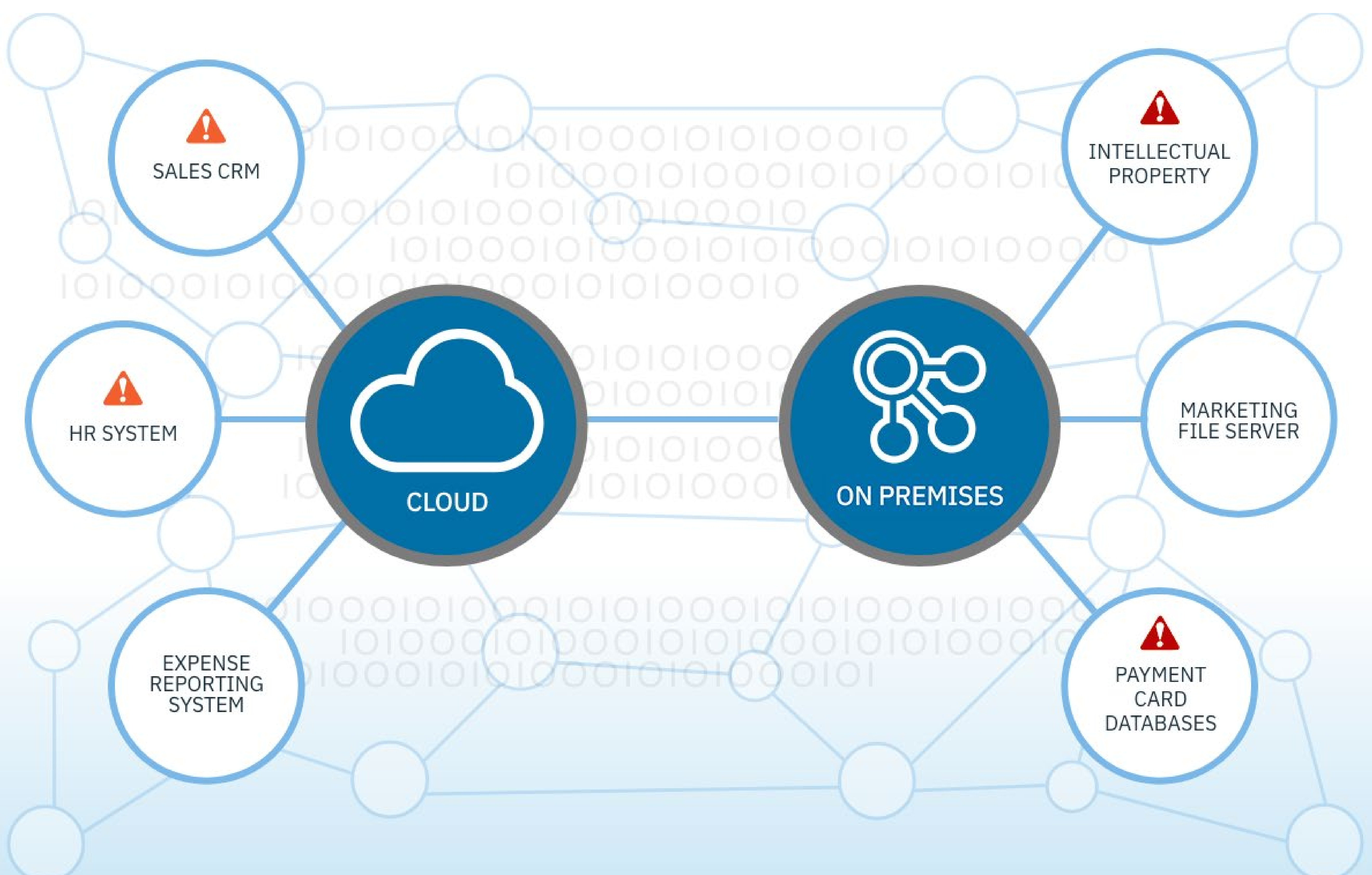
# 3

## Can It Help You Prioritize Threats Against Your Most Critical Data and Assets?

A file server used by marketing and a database in your PCI environment carry very different levels of risks if compromised. You need a solution that understands the value of your assets, automatically prioritizes threats based on business risk and alerts you when you need it.

*A good security solution should offer network awareness. It should enable you to define your most sensitive assets, network segments and cloud services and leverage robust analytics that customize alerts based on risk within your unique environment.*

“ It takes an average of **191** days to detect a breach. Another **66** to contain it.



# 4

## Does Your System Automate Processes to Help Make You More Productive?

With a limited talent pool in high demand, most security teams are understaffed and overextended. A good SIEM solution offers AI and automation that help eliminate manual processes. Modern SIEMs can increase productivity — without requiring additional headcount.

*An ideal SIEM solution helps automate threat detection, prioritization and investigation processes. It should offer validated, out-of-box integrations with incident response and case management systems that further accelerate the containment, remediation and recovery processes.*

**70%** of cybersecurity professionals report skill shortages have impacted their organizations.

By 2020, there will be **1.5 million** unfilled cybersecurity jobs — up from **1 million** just 2 years ago.

# 5


## How Easy Is It to Get Started and Integrate into Your Environment?

Find out what deployment methods are supported. Whether you prefer hardware, software or SaaS solutions, a good SIEM should be flexible enough to meet your needs. Next, before you can get value from your SIEM, you need to get data into it. Ask if it will work with all your systems, including on-premises assets, SaaS applications and public cloud environments.

*Consider the ease of integration not just with log sources but also with complementary solutions, such as threat intelligence feeds, vulnerability scanners, incident response orchestration tools and case management systems, among other things. An open ecosystem for apps and integrations can help you stay up to date and quickly respond to changing risks and threats. The more out-of-the-box integrations, the fewer person hours are needed to extract value.*

“ **An average enterprise uses 75 security products to secure their network — they need to work together.** ”





# Criminals Are Getting Smarter — Which Leads to One More Question: Are You Prepared?

Modern SIEM solutions go far beyond basic log managers and manual processes. With 200,000 security threats a day, you need lightning-fast protection. A good SIEM should be able to detect an array of threats and threat indicators – such as phishing attacks, malware, credential theft, lateral movement and data exfiltration, among many others – and alert you before the damage starts. But remember: Not all SIEM solutions are created equally.

## Look for a Solution That:



Offers advanced security analytics to detect a variety of threats



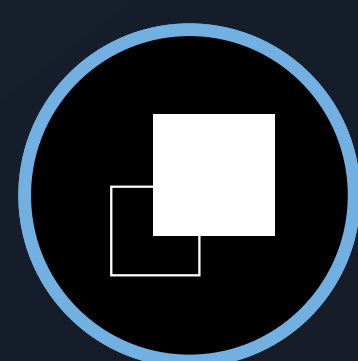
Automatically prioritizes threats and alerts so you can see what matters most



Provides out-of-the-box integrations with your existing systems



Consolidates security data and insights in a single platform and interface



Has the ability to deploy at scale — from small, to very large



Is flexible enough to support your preferred deployment method - be it on-premise, as SaaS or in a public cloud





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# About IBM QRadar

The IBM QRadar Security Intelligence Platform is a comprehensive security analytics solution that brings together log management, advanced analytics, network analysis, vulnerability management, user behavior analytics, threat intelligence and AI-powered threat investigations into a single platform managed from a single interface.

Components of the solution are fully integrated, enabling customers to start as small or large as they choose and easily scale up or down as their needs change. With over 500 validated out-of-the-box integrations and pre-configured rules, customers can get up and running quickly and easily add on new capabilities through the IBM Security App Exchange.

Learn more at [www.ibm.com/qradar](http://www.ibm.com/qradar).



# References

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