

## A brief orientation

As data continues to grow exponentially, there is also a rise in those looking to gain from malicious attacks. Now more than ever, it is critical for organizations to evaluate their security strategy.

In just the first half of 2019, there were

# 3,813 breaches reported,

resulting in the exposure of more than 4.1 billion records.<sup>1</sup>





Compared to 2018,
breaches increased by **54%**,
and the number of exposed records
grew by **52%**.<sup>1</sup>

The average total cost of a data breach —

\$3.92 million.<sup>2</sup>

At times like these, it's helpful to take a step back. What should a security program aim to do? Which goals are realistic — and which goals are not? How should security investments be made and measured?

We believe there are five key attributes to a successful and modernized security program, for any type or size of business.

<sup>&</sup>lt;sup>1</sup> Risk Based Security. (August 2019). 2019 Mid Year QuickView Data Breach Report.

<sup>&</sup>lt;sup>2</sup> Ponemon Institute. (2019). 2019 Cost of a Data Breach Report. Sponsored by IBM Security.

# Full visibility

IT environments are expanding. We're seeing growth in data volumes, device counts, platforms, and traffic. Each expansion introduces new threat vectors and additional challenges in terms of visibility.

Fact:

Worldwide data creation will
grow from 33 ZB in 2018 to 175 ZB by 2025.

Fact:

Consideration:

How will all of this data be monitored and secured, particularly as it moves throughout IT environments?

Consideration:

What level of visibility can we reasonably aim for, considering this level of growth in connected devices?

Fact:

Consideration:

**87% of companies adopted or began adopting a multicloud** (using more than one public cloud provider) approach last year.<sup>5</sup>

How do you make visibility easy, or even possible, with multiple platforms of different types in the same IT environment?

Yet, having full visibility is critical. When an IT environment provides quality visibility and activities are being monitored, many benefits can be realized.

For one, attack attempts can be thwarted, and potential damage, mitigated. A successful attack typically begins by exploiting one vulnerability, and then penetrates throughout multiple systems, from that single starting point. If a breach is detected earlier, the extent of the loss can be better controlled. In 2019, the average time to identify a breach was 206 days.<sup>2</sup> Imagine the number of records, systems, and users a cyberattacker could reach over the course of more than six months — it's uncomfortable to think about.

Visibility, paired with monitoring and/or threat intelligence tools, also contributes largely to the effectiveness of prevention efforts. User behavior tends to be patterned, moving in logical and repetitive ways. Unusual activities or movements can signal the presence of malicious actors, helping IT security managers prevent attacks and make access or policy changes that can address security gaps previously unnoticed.



<sup>&</sup>lt;sup>3</sup> Gantz, J., Reinsel, D., and Rydning, J. (November 2018). Data Age 2025: The Digitization of the World. IDG.

<sup>&</sup>lt;sup>4</sup> Newman, P. (March 2020). The Internet of Things 2020. Business Insider Intelligence.

<sup>&</sup>lt;sup>5</sup> Marketpulse Research by IDG Research Services. (February 2020). The State of IT Modernization 2020. Commissioned by Insight.



# Comprehensive governance

Many may think of frameworks like COBIT or ITIL when thinking of governance. At a high level, governance is about the ways IT decisions are aligned with business objectives or needs. Governance should also address ownership and accountability — who is responsible and who the stakeholders are.

Governance is critical for security as it helps organizations to:



Define and align around security objectives



Select and validate security solutions



Organize training, guidelines, and other user security programming



Bring security into conversations about platform adoption, networking architecture, and other components of IT strategy



Improve security posture through defined roles and processes

# Get the pulse

The latest Insight-commissioned IDG survey gives you instant perspective on how IT modernization efforts are progressing and what challenges are most plaguing IT leaders. Includes data points on cloud, platform decisions, governance, and much more.

See the survey







Effective governance can be difficult to achieve, however. In the latest Insight-commissioned IDG survey, respondents reported that the top IT modernization challenge is establishing new governance strategies and processes to support IT modernization and cloud.<sup>5</sup>

One difficult aspect of devising effective governance is, in fact, the increased use of the cloud. Organizations may have had working governance frameworks in place for years, which only addressed the data center and its clearly defined perimeter.

According to the RightScale 2019 State of the Cloud report from Flexera,

94% of organizations now use cloud,



with public cloud adoption at 91%



and private cloud adoption at 72%.6

Extending traditional governance to the cloud is essential, yet not formulaic, and does require investments of time and resources.

This has repercussions for cloud security, or the perception of it, at least.

The IDG survey found that managing public cloud security is the number-one challenge when optimizing cloud experience and outcomes, closely followed by governance and process challenges.<sup>5</sup>

By establishing comprehensive governance, inclusive of all platforms, roles, stakeholders, etc., an organization can ensure its security operations stay robust, relevant, and supported.

<sup>6</sup> Flexera. (2019). RightScale 2019 State of the Cloud Report.

# Strategic identity and access management

Everyone and every system that lacks malicious intent does, or should, have an identity and specific access privileges. As IT environments sprawl, and endpoints proliferate, identity and access management is becoming a central topic of security conversations.

Most organizations have Active Directory® and have used various third-party services. This results in multiple identities, systems, and solutions — and a lot of complication, particularly when manual efforts are required to manage it all.

Here are several considerations to make with identity and access management, where security is concerned:



### Think about the data.

How sensitive is it? Who really needs access to it? When, and for how long? What is the initial point of contact, and is this the best option? Organizations may need to pursue a data classification initiative as a first step.



### Think about your users.

Have you established user types? When did you last review permissions? How are you verifying identities and granting access? From defense in depth to zero trust, there are many viable models.



### Think about authentication.

Passwords are falling out of favor, fast. What alternatives have you considered? Would mechanisms such as biometrics work for your organization? How might you transition from your current authentication approach to a more secure one in the near future?

For identity and access management to be strategic and successful, organizations should maintain all identities in a single repository, consider implementing a Cloud Access Security Broker (CASB) solution, and implement a layered security approach.

Find additional recommendations in "Mastering Identity and Access Management," a whitepaper by Cloud Security Architect Richard Diver, from Insight Cloud + Data Center Transformation's security team.







## Automation and streamlined workflows

Security has no mulligans. Vulnerabilities or gaps may be exploited at any time. Human errors that lead to successful attacks are not a forgivable matter. In security, mistakes are costly. Ironically, avoiding such costs can also be quite costly, depending on the approach you take.

What do we mean? Security Operations Centers (SOCs) need to be modernized, inclusive of tool sets, technologies, processes/methodologies, and resources. In "The State of IT Modernization 2020" survey, 57% of respondents said that upgrading security infrastructure and processes was a top obstacle to pursuit of modernizing the IT operating environment. But, where in-house resources are scarce, organizations need to find external partners that can bring automation and other expertise that is critically needed.

Automation within the SOC delivers clear benefits:

- Faster detection, response, and remediation capabilities
- Fewer errors as a result of manual efforts
- Security resources freed up for strategic priorities
- Better user experiences and satisfaction

Some tasks are particularly well suited for automation. Take responding to alerts, for example. In a study by CRITICALSTART, 70% of respondents said they investigate more than 10 alerts each day, which each take more than 10 minutes to investigate (figures that were 45% and 64% higher than the previous year, respectively). Alert fatigue is a common complaint in such environments, leading SOC professionals to ignore alerts, pay to hire more staff to share the burden, or even leave their post entirely.<sup>7</sup>



By reducing the number of repetitive tasks performed by personnel and automating common security processes, organizations can bolster morale, build a more strategic SOC, and more easily take a multilayered approach to security with fewer resources.

7 CRITICALSTART. (2019). The Impact of Security Alert Overload.

## Effective tools and skilled resources

There is only so much an organization can do without the right tools, technologies, and resources. The operative word being "right." A recent Ponemon Institute report found that companies have an average of 47 different cybersecurity solutions and technologies deployed. The same report notes that more than half (53%) of IT experts don't know how well the cybersecurity tools they've deployed are working, and only 39% say they are getting full value from their security investments.

#### What is the issue? There are several:



Having the time or expertise to make sound decisions regarding security products or platforms



Understanding the skill sets required to deploy, adopt, integrate, customize, and optimize security investments



Complex IT environments (due to rapid growth, M&A activity, etc.) with innumerable vectors of attack



Aligning IT investments with budgets, which sometimes results in unfortunate compromises



Acquiring point solutions that each offer limited scope and contribute to tool fatigue



Finding and retaining key security talent

IT directors need to continuously reevaluate their risk posture and threat response capabilities, while taking advantage of the latest security offerings. By aligning closely with business and line-of-business leaders, IT organizations can also ensure the buy-in needed to develop a security-savvy organization and minimize the occurrence of shadow IT and other risky behaviors.

How do you address these concerns and drive meaningful improvements in your security operations?



#### Look to trusted sources

Insight helps companies like yours assess their security environment, develop an actionable roadmap, implement the optimal solutions, and manage a best-in-class SOC that boasts all five attributes described here. Our premise is that security is not purely a technology issue but a business priority — we combine technical and consulting experience and intelligence to augment your entire security program.

One way we deliver is with Microsoft® Azure Sentinel $^{\text{M}}$ , a cloud-native Security Information and Event Management (SIEM) and Security Orchestration and Automated Response (SOAR) solution that collects security data across the entire hybrid enterprise and uses the power of Artificial Intelligence (AI) to rapidly identify and investigate threats.

#### Why Insight and Azure Sentinel?



Maximize the benefits and capabilities of your security investments



Accelerate and automate
the hunting and detection of
cyberthreats



**Better align** security efforts with business objectives



**Offload the task** of monitoring your network, systems, applications, and data



Improve the security, visibility, and control of your entire IT environment



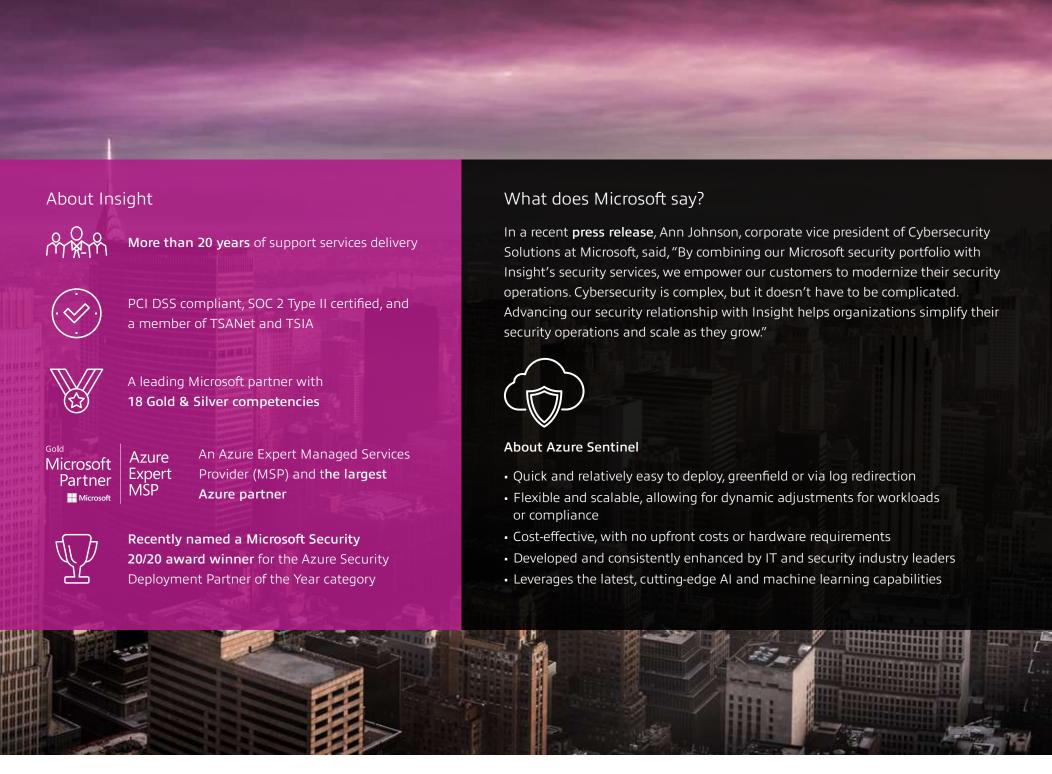
**Reduce risks** and make securityrelated costs more predictable

# NBA Team Adopts Azure Sentinel for a Modern Security Slam Dunk

Find out how a U.S. professional basketball team replaces a legacy SIEM system with Azure Sentinel to gain efficiencies, accelerate incident response, and increase contextual awareness across their environment.

Learn more







Gain the tools and expertise you need to hit all five attributes described in this ebook. Get started with Insight and Azure Sentinel today.

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