



**ELEVATE  
&  
INNOVATE**

**Overcoming Cybersecurity Challenges eBook**

Lead your organisation to a new, safer vantage point.

## Security is a Herculean task.

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As security teams resolve one risk, it's common for several more to appear. And every challenge is connected. Between alert fatigue, disparate tools and the never-ending, always-changing nature of the beast, staying on top of it all — much less getting ahead — seems close to impossible.

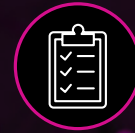
At Insight, our security work across every industry has revealed three main categories where cybersecurity poses real challenges, and opportunities, to elevate your program:



**Evolving  
cyberthreats**



**Cost and  
complexity**



**Regulation and  
compliance**

Read on to learn what it takes to conquer these summits and how new strategies can prime you for innovation in a rapidly changing threatscape.

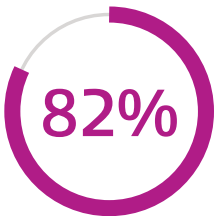
**FOCUS AREA #1:**

## Evolving cyberthreats

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From email inboxes to the national news, you don't need to look far to know that the problem of ransomware has been spiraling out of control. And with ransomware tactics evolving rapidly, it's even harder to rein in the problem.

The birds-eye view can be overwhelming: rapidly evolving dispersed infrastructures, increasingly sophisticated attackers and an abundance of valuable data just waiting to be looted and leveraged for criminal gain. What's more, there is an abundance of security solutions that still don't seem to be doing the trick.



of security leaders have been surprised by a security event, incident, or breach, which evaded a control they thought was in place.<sup>1</sup>

In an era of “when, not if,” cyberthreats are difficult to pinpoint and fend off because organisations simply can't predict them. This is why a multilayered approach encompassing risk mitigation and risk minimisation has become more critical than ever.

### 4 Best Practices for Ransomware Readiness

The top industries targeted by ransomware are technology, healthcare and education<sup>3</sup> — but all are at risk. No matter your market, these best practices will help you ward off attacks and respond more effectively to incidents:

1. Know your vulnerabilities.
2. Secure your data.
3. Back up your backups.
4. Have a plan.

## Does Your Security Program Have All Your Bases Covered?

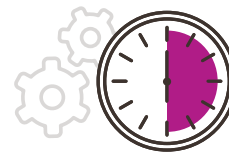
Security should help you save costs and streamline operations. Watch this video from Insight's global security experts to learn how risk-savvy organisations can create and implement a comprehensive approach to security as part of business transformation.

[Watch now](#) →

### FOCUS AREA #2:

## Cost and complexity

Your organisation could have 76 security tools in place (the average number in a given organisation<sup>1</sup>) and still leave your business wide open to risk. Operating with disjointed legacy solutions and an abundance of new tools creates overlap, overwork, blind spots and silos.



Security teams **spend more than half of their time** manually producing reports.<sup>1</sup>

This type of security environment creates more vulnerabilities and is also a drain on resources. And yet, this is where many organisations operate — in a multi-vendor security space resulting in overwhelm, overspending and underperformance.

**The core issue behind this cost and complexity? Lack of strategic expertise.** Investing in defensive tech without informed, strategic and technical guidance for adoption, deployment and integration is a recipe for disaster:



Gaps between tool sets



Lack of data integration



Mounting technical debt



Overburdened teams



Reduced risk resilience

**FOCUS AREA #3:**

## Regulation and compliance risk

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Security runs the gamut from the granular to the giant: from personnel passwords to data protection strategy. All of it has the potential to impact your regulatory and compliance risk.

### Understanding your risk



#### Regulatory risk

Regulatory risk is your vulnerability to changes in regulations or legislations set by the governing bodies that oversee your industry. The impacts of a regulatory change can introduce increased costs, administrative challenges, legal concerns, and have the potential to slow or halt business.



#### Compliance risk

Compliance risk is your exposure to legal penalties and financial and reputation loss due to failure to comply with industry laws, internal policies and best practices. Companies handling sensitive information face increased risk in the area of data privacy — noncompliance can result in devastating business consequences.

The complexity of today's business processes means there's no simple, foolproof method for mitigating risk. It requires communication and strategy across executive, operational and technical teams to create full visibility and awareness.

## Questions for guiding regulatory and compliance risk management include the following:

- Are established protocols in place for regularly assessing regulation and compliance?
- Are you currently meeting government, market and industry regulatory requirements?
- How aware are you of the potential losses or risks if found noncompliant?
- How quickly would you be able to respond to a regulatory change?
- How does your organisation perform under audits?
- Is IT involved in compliance risk management?



43%

of security professionals **have little to no understanding of best practice measures, metrics and policies** used by peer organisations.<sup>1</sup>



31%

say a **lack of a unified, proactive approach to security and governance** is inhibiting progress with innovation<sup>2</sup>



## 5 traits of a winning cybersecurity strategy

**Arming the full spectrum of your IT environment — from core to edge — is key.**

The Insight-commissioned 2022 IDG report on digital transformation, ["The Path to Digital Transformation: Where IT Leaders Stand in 2022,"](#) found that

**36%** of respondents say mitigating risk with stronger cybersecurity programs is a top objective.<sup>2</sup>

**Our goal is to help you get there.**

In the process of crafting a stronger cybersecurity strategy, everything matters, from how you choose and implement infrastructures to the protocols you put in place to protect them.

**Consider this next section your guide to approaching the cybersecurity fight with both offensive and defensive strategies.**

We'll cover the top solutions and protocols we see our clients using to successfully protect and defend their organisations.

1.

## Adopt a Zero Trust framework.

Remote connectivity directly expands the network perimeter, and where the network perimeter goes, security risk follows. The very nature of today's model for connectivity makes it difficult to secure.

0100  
1101  
0010

**Data is everywhere.**



**The network perimeter isn't fixed.**



**Attacks come from without and within.**

This kind of sprawl makes it much harder to maintain compliance, consistently pass audits, and plan and prove an ironclad security strategy.

A Zero Trust framework provides a methodical approach to addressing and mitigating this inherent risk, protecting networks, users and data with multilayered safeguards. **There are three essential components to a Zero Trust approach:**



### Workforce:

Enterprise users and devices that access enterprise applications

- Verifying user identities with Multi-Factor Authentication (MFA)
- Gaining device visibility and establishing trust
- Enforcing access policies with adaptive access controls



### Workloads:

Enterprise applications, services and microservices

- Gaining visibility across your environment
- Identifying individual workloads
- Programming and enforcing policies
- Containing breaches
- Maintaining compliance
- Continuously monitoring activity
- Automatically responding to compromises



### Workplace:

Enterprise endpoints and IoT devices

- Granting the appropriate level of network access to users and devices with network authentication and authorisation
- Classifying and segmenting users, devices and applications
- Containing infected endpoints
- Revoking network access as needed

The goal of embedding security into the network to connect and protect all users and applications, whether on-premises or in the cloud, is possible with experienced partners for execution. And the results are powerful: **With fully integrated security, teams are freer to focus on innovation over risk management.**

Top security initiatives include:

68% Performing security testing

64% Updating governance policies

65% Implementing Zero Trust policies

63% Implementing a Security Operations Centre (SOC)  
More progressive organisations are further along in SOC implementation.<sup>2</sup>



## 2.

### Invest in network and edge security.

Today, most conversations around the network inevitably lead to the topic of the edge. The edge is essentially the perimeter — but in the age of hybrid work, the network perimeter is more often than not undefined, leaving most organisations open to risks.



#### The modern network edge



#### Components:

- + Traditional networks
- + Cloud networking
- + Wi-Fi connectivity
- + 5G
- + VPNs

#### Characteristics:

- + Automation
- + Security integration
- + Next-level service capabilities

You may have heard of the “intelligent edge” — Internet of Things (IoT) devices with compute leveraged for advanced network functionality at the edge. **Key challenges facing an effective network edge include:**



Requirement complexity



End-of-support technology



Lack of visibility



Security at scale

As more users adopt hybrid and multicloud strategies, cloud-centric network security has taken centre stage. Some of the strongest strategies for securing the modern network edge include Secure Access Service Edge (SASE) and SD-WAN — two solutions that use the cloud to connect and secure geographically disparate endpoints in a flexible, adaptable way.



#### SD-WAN

- Cloud-based network technology designed to provide increased bandwidth at lower costs, enhanced security and other benefits
- Focuses on connecting remote locations back to a central private network to control network traffic securely and efficiently
- Optimises Software as a Service (SaaS) performance using on-ramp capabilities
- Leverages service chaining for dynamic traffic steering and application-aware routing within the enterprise



#### SASE

- A concept that defines the convergence of networking and security services within a cloud-based architecture
- Builds in familiar security architectures and capabilities
- Focuses on converging network and security into a unified, cloud-delivered service model
- Establishes a virtual network overlay with distributed Points of Presence (PoPs)
- Runs multiple policy engines in parallel at each PoP to inspect and secure traffic

3.

## Take cloud security seriously.

Too often, organisations assume the cloud is automatically secure. It's easier to suppose cloud providers are responsible for protecting data than to take on the responsibility of adding cloud security and compliance to an already-full task list. **And yet, cloud security is a top concern:**

93%

of IT security professionals **worry that human error could accidentally expose data in a public cloud.**

37%

say that risk management capabilities in the cloud are **at least somewhat worse than in other parts of the organisation's infrastructure.**

**ONLY** 22%

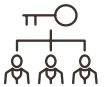
**say their organisation maintains continuous compliance** with cloud security regulations and standards.<sup>4</sup>

Understanding who's responsible for data security in the cloud is only part of the challenge.

**A comprehensive cloud security strategy includes:**



Cloud governance that establishes clear policies and protocols, reducing vulnerabilities



Identity and Access Management (IAM) strategies spanning cloud and other environments



Protection and retention strategies for data residing in or traveling to and from the cloud



Cloud-first security postures and frameworks



Authentication and encryption capabilities

### The What, Why, and How of Cloud Security

What's driving the need for cloud security? In this video, explore pain points from visibility to control and fragmented platforms — and how businesses are simplifying, unifying and mitigating risk in large cloud and multicloud environments.

[Watch now](#) →

## 4.

### Modernise data protection and data security.

Consider security from the standpoint of data protection. Cybercrime isn't your only threat. Data can be compromised, corrupted or lost anytime your organization pursues data infrastructure changes.

This could happen in several ways:

- Data centre and cloud migrations or consolidations
- Intentional or unintentional unauthorised user access
- Poorly managed configurations

Safeguarding data, wherever it lives, requires a deep understanding of the data you're protecting — making data discovery and classification critical. This process often starts with a comprehensive data discovery exercise, followed by defining high-level data categories. Different types of data will receive different treatments, and your overall strategy will be defined by your business's unique goals and risks.

Key points of consideration for developing a strong data protection and security strategy:



Data lifecycle management



Data risk management



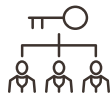
Data storage management



Regulations and standards compliance



Data sovereignty



Data access management control



Testing, exercising and reporting



Continuous improvement

### 8 common traits of successful data protection strategies

1. A security team mindset shift
2. Tape for air-gapped backups
3. All-flash storage
4. Immutable storage
5. Two-factor authentication
6. Strong data discovery and classification processes
7. At-scale test restores
8. Ongoing efforts around data protection

5.

## Make the most of Microsoft security.

Microsoft has proven to be a powerhouse for the modern workforce with products that enable collaboration and flexibility while built-in security and support protects users and devices.

### Simplify with Microsoft Sentinel.

Streamline your multi-vendor security environment with Microsoft Sentinel™. Sentinel pulls data sources from your entire ecosystem, giving your teams visibility and control to simplify threat hunting, reduce alert fatigue and capture a true picture of your security posture.

Insight offers [expert-led Sentinel workshops](#) that combine training and assessment of your security environment →



### Windows Security

Microsoft's Windows® devices include Windows Security built in to protect your devices from malicious software attacks.




### Microsoft 365 Security

Microsoft 365™ Security is a modern cloud security solution that helps organisations streamline security operations, remove redundancies and save on costs.



### Microsoft Sentinel

Sentinel is a cloud-native and scalable Security Information and Event Management (SIEM) and Security Orchestration, Automation, and Response (SOAR) platform for visibility and analytics.



Reclaim the path to innovation.

Break free from cybersecurity complexity. Insight can help.

It's clear we're facing new challenges in cybersecurity. New challenges invites new solutions — but solutions without expert execution can add to those challenges.

While we've provided a list of practical solutions that will be crucial on your security journey, your next move is critical — working with an experienced partner in cybersecurity strategy. We'll help you identify your top challenges, execute with precision and build an approach to security that propels your organisation toward innovation.

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Sources:

<sup>1</sup> Panaseer 2022 Security Leaders Peer Report.

<sup>2</sup> Marketpulse Research by IDG Research Services. (January 2022). The Path to Digital Transformation: Where IT Leaders Stand in 2022. Commissioned by Insight.

<sup>3</sup> Gruber, D. and Lundell, B. (February 2020). Ransomware Still Rampant, Fueled by Insurance Companies. Enterprise Strategy Group.

<sup>4</sup> Lapena, R. (2020, Aug. 12). Survey: 76% of IT Pros Say It's Difficult to Maintain Security Configs in the Cloud. Tripwire.