

AI: The Good, The Bad and The Opportunity

Solutions Guide



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Exploring all facets of AI in cybersecurity

As with everything, there are good and bad things about AI in cybersecurity. And then there’s the opportunity — for you and your customer. This playbook will help you discover the pros and cons of AI in cybersecurity and share some of the opportunities you have to strengthen relationships with customers.

Definition of AI in cybersecurity >

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Definition of AI in cybersecurity >

“Artificial intelligence (AI) is used in cybersecurity to help organizations protect their networks from cyberthreats and unauthorized access. AI can monitor, analyze, detect, and respond to cyberthreats in real time. It can also automate tasks that are repetitive and tedious for security analysts to complete, freeing up time and resources for more complex tasks.”

“Simply put.... AI is the application of applied statistics to solve cybersecurity problems.”

While AI is the bright shiny thing, inherent in this definition is data:

“The key to enabling outcomes in security is not about the AI; it is about the data ... data is the enabling infrastructure for security AI.”

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In terms of data, AI offers an important ability to “separate the wheat from the chaff.” For example, it can quickly break down and triage hundreds of alerts coming in at once — data that would be impossible for humans to process at machine speed. It can then prioritize alerts for immediate action and automate responses for routine alerts.

This does not mean that AI replaces human expertise. While AI is based on inarguable data, security analysts bring interpretative data to the party — they parse context and think critically and ethically — and can marry those skills with AI’s capabilities. As IDC puts it: “The reality is that the scale of machine learning has grown to such a point that problems solved can exceed what a single person can pattern match in a lifetime or even a thousand lifetimes.”²

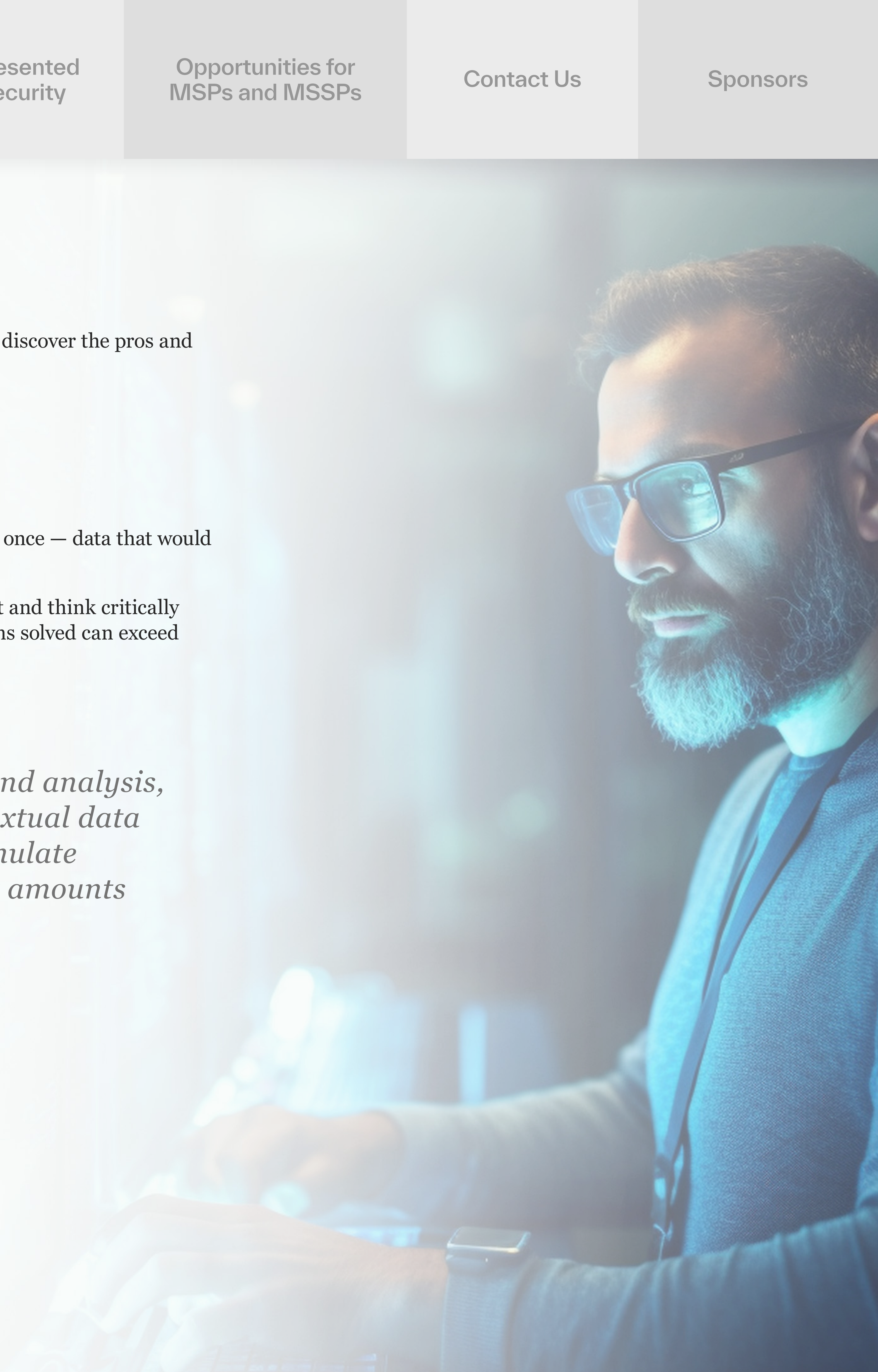
As your customer’s best advocate, your goal is to ensure that their networks and data are protected. IDC lays out the goals clearly:

“Using large amounts of structured and unstructured data, content analytics, information discovery, and analysis, as well as numerous other infrastructure technologies, AI-enabled security platforms use deep contextual data processing to answer questions, provide recommendations and direction, hypothesize, and formulate possible answers based on available evidence. The models are trained through the ingestion of vast amounts of content and automatically adapt and learn from their mistakes.”

That said, AI can be a double-edged sword.

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At the same time that AI is being used by the “good guys” to quickly identify and prevent threats, it’s also being used by the “bad guys” to not only automate more advanced threats but also to revive publicly known threats, such as those on the Common Vulnerabilities and Exposures (CVEs) list, and reimagining them on a wider scale.

Essentially, AI is the dual-edged sword: one side attacks, the other defends.

The ease of AI makes it a much more accessible tool with which to create and launch attacks. In other words, just about anyone can do it. For example, the more enterprising bad guys are not only launching advanced attacks, but they’re also serving as “mentors” by expanding their business models to offer subscription services and sell bundled “quick start” kits for aspiring bad actors. Here are some other ways that bad actors are using AI:³

1

Automated attacks: Automated attacks make it easier for them to target multiple systems simultaneously, while making it harder for defenders to detect and respond to the attack.

4

Evading detection: AI can help bad guys bypass traditional cybersecurity tools or generate new, more difficult-to-detect malware variants.

2

Targeted attacks: Targeted attacks can identify vulnerabilities in specific systems and exploit them, opening the door to exposure of sensitive information or assets.

5

“Gain of function” malware: AI can help bad guys create malware capable of learning and evolving, making it more challenging to preempt — or make malware “more effective” or harder to detect by adapting to changes in the environment.

3

Social engineering: AI-powered chatbots can generate fake news or social media posts that spread malware, manipulate public opinion, or trick users into divulging sensitive information.

For precisely these reasons, it’s crucial for you to stay on top of the fast-moving advancements in AI and how they can impact your customer’s security environment.

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- **Amazon SageMaker** – Enable data scientists and developers to quickly and easily build, train, and deploy machine learning models at any scale with this fully managed service.
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- **Secureworks Taegis XD** – Leverage advanced AI for comprehensive threat detection, response, and remediation across your entire IT environment.
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Enhanced threat detection and response ➤

Automation of routine tasks ➤

Behavioral analysis and anomaly detection ➤

Predictive analytics for risk management ➤

The Concerning Picture of Alert Fatigue⁶

- **63%**-The size of our attack surface has increased in the past three years.
- **4,484** – Average number of alerts received by SOC teams daily.
- **Nearly 3 hours** – Time spent by SOC teams manually triaging alerts.
- **83%** - Percentage of alerts that are false positives and not worth security analysts’ time.
- **32%** - Time spent on alerts that are not a threat.

Value of AI for Security Operations⁷

- **108 days** – Time saved responding to threats for organizations that invest in AI.
- **\$1.76 million** – Average savings in data breach costs by organizations that invested in AI and automation, compared to those that don’t.
- **Up to 40%** - Higher returns seen by organizations investing in AI and automation as those technologies mature.
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Enhanced threat detection and response ➤

- **Rapid analysis of large datasets:** Data is central to AI-enhanced threat hunting, and that data — network traffic logs, user behavior, system logs, etc. — must be collected, consolidated, and cleaned before it can be analyzed. AI can then automatically process massive datasets to detect anomalies or irregular patterns and identify threats. With traditional threat detection systems, however, many of those threats may go undetected.
- **Identification of unknown and zero-day threats:** Traditional signature-based solutions compare suspicious activity against a database of known threats and malware signatures and throw up an alert for human consideration and/or action, creating hundreds or thousands of potentially false alerts. The challenge for security analysts then, is to wade through a haystack of alerts to find the “needle” — before an attack occurs!

But with alert fatigue, coupled with AI now being used by bad actors to launch zero-day attacks (or even old attacks on a wider scale), traditional solutions are much less effective against these unknown threats. AI-enabled solutions can quickly plow through mountains of data and instantly identify and prioritize alerts to prevent a threat.

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- **Streamlining incident response processes:** AI can automate incident response processes by enabling you to⁴:
 - **Respond to critical events faster:** Automated IR can monitor millions of security events, enabling timely threat detection and recovery time.
 - **Assign incident response duties:** AI can automatically assign engineers, based on expertise and availability, so they can better respond to an incident based on its nature.
 - **Classify malware and perform risk analysis:** AI can identify anomalies and patterns, then evaluate and classify malware for risk analysis.
 - **Provide platform security:** Automated IR seamlessly integrates security protocols into the development process at the start of the software development lifecycle.
 - **Improve process management:** Automated IR helps to manage security alerts at scale, prioritize IR activities, and ensure the right resources are focused on high-priority tasks.
- **Reducing workloads for security analysts:** As mentioned previously, collecting, consolidating, and cleaning data is typically done by security professionals — a time-consuming task. But with AI, security teams can focus on more strategic aspects of cybersecurity and leave the mundane tasks to AI and automation. As one vendor says: “AI and machine learning is [sic] helping security analysts level the playing field by processing massive amounts of data, providing rapid insights based on analysis, and cutting through the noise of daily security alerts and false positives. This drastically improved [sic] your team’s efficiency and productivity, giving them an advantage over potential cyber criminals.”⁵ In other words, AI and automation help analysts reduce their workloads by eliminating manual errors, streamlining processes, refocusing their efforts, and reducing mean time to detect and respond (MTTD and MTTR).

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- **Identifying abnormal user behavior and network activities:** Malicious attacks share a commonality: They all behave differently than normal baseline behaviors. Modern anomaly detection solutions use AI and machine learning to automatically learn and adapt to evolving patterns within data, enabling your customer to accurately and efficiently detect anomalies within their networks. AI/ML can quickly comb through network traffic logs, system logs, and user behaviors and compare them to typical threat patterns to accurately identify and respond to abnormal behaviors — such as unauthorized access to sensitive data — or anomalies like sudden spikes or dips in activity, errors in the text, or unusual temperature changes. With AI-powered user behavior and anomaly detection solutions, you can now respond proactively to preempt a threat in real time in your customer’s environment rather than react to a threat in progress.
- **Early detection of insider threats and advanced persistent threats (APTs) :** By leveraging AI and deep learning for behavioral analysis, organizations can detect insider threats, APTs, and other attacks that traditional systems might miss. Consider this: “Deep learning, a subset of AI, holds significant promise in detecting sophisticated and complex threats. Deep learning models can process and analyze vast amounts of unstructured data, such as network logs, packet captures, and system events, to identify hidden patterns and correlations. Deep learning algorithms excel in detecting advanced persistent threats (APTs), insider threats, and other stealthy attacks that may evade traditional security measures.”⁸

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- **Forecasting potential security risks and vulnerabilities :** Unlike a crystal ball, predictive analytics uses historical data, along with statistical algorithms and machine learning, to identify patterns and predict outcomes in real time. With this data, you can help your customer anticipate risks and spot vulnerabilities — such as detecting potential vulnerabilities in their security infrastructure — and identify opportunities. For example, opportunities might include prioritizing their security investments and resources by focusing on high-risk areas.
- **Proactive mitigation of security incidents before they occur:** What if, instead of just responding to threats, you could help your customer to not only predict threats, but also to proactively prevent them? Predictive analytics does just that. Using AI to quickly cull mountains of data, an AI-based solution can analyze patterns and trends from previous security incidents and current network behaviors to forecast potential threats.⁹ With this information, you can help your customer to proactively implement preventative measures to ward off future attacks.

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Vulnerabilities to adversarial attacks >

Overreliance on AI without human oversight >

Privacy and ethical concerns >

Complexity and cost of implementation >

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Vulnerabilities to adversarial attacks ➤

- **Exploitation of AI models through manipulated inputs:** The benefits of AI are numerous. But AI is not immune from being used to generate attacks. Adversarial attacks involve bad actors deliberately attempting to subvert the functionality of AI systems by altering either the original data or the parameters or architecture in the AI model itself. These attacks are crafted to deceive AI systems, causing them to make incorrect or unintended predictions or decisions. Think about how adversarial AI attacks — including white box vs. black box, evasion, poisoning, and transfer attacks — can lead to potentially life-altering outcomes in autonomous vehicles, medical diagnosis systems, facial recognition systems, and other AI-powered applications.

While there are ways to help your customer to mitigate these risks — including adversarial training where the AI model is trained with adversarial examples to increase its robustness and defensive distillation which involves training a secondary model to detect adversarial examples — more work needs to be done to develop more effective solutions.¹⁰

- **Evasion of AI-based detection systems by sophisticated adversaries:** Evasion attacks occur when bad actors manipulate data inputs to avoid detection by AI-based security systems, making it difficult to identify and respond to threats. These attacks demonstrate the value of continuous updates and improvements in AI algorithms to adapt to new evasion techniques.

There are two types of evasion attacks: nontargeted and targeted. In both cases, the goal is to make the AI model produce incorrect output but in the nontargeted attacks it can be any incorrect output whereas in targeted attacks, it must be a specific incorrect output. It’s the difference between manipulating the image of a stop sign so that AI fails to recognize it as a stop sign versus classifying a stop sign as harmful. Both lead to dangerous situations, depending on the circumstances.

The challenge with evasion attacks is that bad actors look for the best way to confuse the model while still being undetectable by humans. This can make them difficult to detect because they take advantage of the particular characteristics or patterns an AI model picks up during its training.

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- **False positives and false negatives in automated systems :** Automation is key to transforming cybersecurity and speed is a key benefit. But it’s easy to put all your automation eggs in the cybersecurity basket and get lulled into a false sense of security. For example, automated systems can quickly and easily generate false positives and false negatives. The risk with false positives is that, if they occur frequently, they can desensitize security teams. On the other hand, false negatives can have dire implications because a genuine threat can go undetected. The goal should be to help your customer balance the fast and cool technology with skilled security experts to help protect their systems and data.¹¹
- **Lack of contextual understanding and critical thinking abilities :** Over-relying on automation can also lull organizations into believing that they need fewer human experts. The risk is that an organization may think that they need more technology and fewer experts. But the opposite is true. Automated systems lack the human intuition and context needed to evaluate the level of risk and the importance of a particular alert. Successful organizations have seasoned security experts who can interpret the data they’re seeing and differentiate between a benign activity and differentiate between a benign activity that looks suspicious and a genuine threat. ¹¹

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- **Collection and misuse of sensitive data for AI training:** Managing and controlling the integrity and privacy of growing data stores continues to challenge already overburdened and underfunded security teams. As IDC explains:²

“Sensitive or confidential information may be uploaded into an AI model with little to no thought about the long-term implications. Individual datasets that are innocuous when standing alone may be combined, thus creating personally identifiable information (PII). Frankly, it’s another (powerful) tool that requires security awareness training for users to operate appropriately.”

There are also compliance issues — such as GDPR in the European Union — and data privacy concerns to consider ensuring that personal data is not processed without individual consent.

- **Biases and discrimination in AI algorithms and decision-making:** AI is a window into the biases of the people who created it — and they are overwhelmingly men. Examples of gender and racial bias abound in generative AI tools, especially in the short time that they have accessed the open internet. This bias perpetuates itself and impacts the world around it as generative AI gains in popularity and importance.² Similarly, data and AI algorithms that train AI threat detection models must be scrutinized to avoid skewed results. Diverse datasets and continuous evaluation against bias are required to ensure fairness in AI models and equitable and accurate outcomes across different demographics and scenarios.

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Complexity and cost of implementation ➤

- **Integration challenges with existing security infrastructure:** Integrating AI with existing security infrastructures and workflows can transform operations, bringing better solutions and insights. But it is a complex process, requiring thoughtful, strategic planning and execution to ensure it doesn’t disrupt ongoing operations. Start with a compatibility assessment to point out technical challenges, including data formats and communication protocols. It may also help to adopt modular AI that be easily plugged into existing systems and AI tools that support leading standards for a more seamless integration. By understanding the challenges (particularly with legacy systems), following best practices, considering data management, and leveraging APIs, you can help guide your customer through a smooth AI integration process.¹²
- **High costs associated with AI development, deployment, and maintenance:** As with other technology projects, the costs for AI can quickly spin out of control if projects and costs are not carefully planned and controlled. Here are some rough estimates of development costs.¹³

- Small-scale AI project: \$10,000 to \$100,000	- Large-scale AI project: \$500,000 to \$9,000,000
- Medium-sized AI project: \$100,000 to \$500,000	- Enterprise-level AI project: \$9,000,000+

There are also additional costs involved in cleaning up your customer’s data, any customizing of the software or hardware, and other associated costs. Maintenance and management can be handled by the in-house team or outsourced to a professional. Though outsourcing can be costly, it can eliminate in-house costs altogether, freeing up staff to focus on more strategic initiatives. (MTTD and MTTR).

Data vulnerability and leakage ➤

Solutions to consider ➤

“ The future of cybersecurity isn’t about choosing between humans and automation— it’s about integrating them effectively. ”



Cons of AI in Cybersecurity

AI, machine learning, and analytics bring great promise to the cybersecurity field in terms of data processing at machine speed and scale. At the same time, there are serious considerations that must be made. Understanding the challenges and limitations of AI/ML can help you better educate your customers about AI’s dual nature.

Vulnerabilities to adversarial attacks ➤

Overreliance on AI without human oversight ➤

Privacy and ethical concerns ➤

Complexity and cost of implementation ➤

Data vulnerability and leakage ➤

- Losing sensitive or personally identifiable data (PII) is probably the biggest risk with AI, simply due to the massive data volumes and the data generated. As part of training or using AI models, vast amounts of personal data may be used, processed, or created, resulting in a risk of data leakage. There are several ways to help your customer manage this risk:
 - Implement strong encryption to protect sensitive data in transit and at rest.
 - Employ strict access controls and authentication methods.
 - Conduct regular cyber range exercises using adversarial techniques to try to breach the AI system. These exercises serve to both test and improve the resilience of your customer’s environment and mitigation strategies.

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Opportunities Presented by AI in Cybersecurity

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Advanced threat detection and response capabilities ➤

Scalability and efficiency improvements ➤

Augmented decision-making and contextual insights ➤

Evolution of adaptive and self-learning security systems ➤

Role of AI assistants in augmenting cybersecurity analyst abilities ➤

Role of data loss prevention solutions
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- **Real-time monitoring and adaptive security controls :** Integrating Real-time adaptive security flexes with multiple, moving perimeters and increasingly advanced threats targeting enterprises. It can monitor a network for malicious traffic and behavioral anomalies, ferret out endpoint vulnerabilities, identify real-time changes to systems, automatically enforce endpoint protections and access rules, block malicious traffic, and more. It starts with a security platform to share and correlate information (instead of point solutions) and includes finer-grained controls, automation, on-demand security services, security as a service, and integration of security and management data.
- **Proactive threat hunting and incident response automation :** Proactive threat hunting and incident response automation are two different approaches to threat monitoring and mitigation that can help organizations stay ahead of cyberthreats:
 - **Proactive threat hunting:** A focused process that involves identifying triggers that could indicate a potential threat, such as anomalies, unusual patterns, or suspicious activities. Once a trigger is identified, threat hunters search for anomalies that could prove or disprove a hypothesis. The goal is to find vulnerabilities and attacks before they happen. Threat hunting can help organizations identify more threats, detect them earlier, and improve incident response.
 - **Incident response automation :** Using automation in the threat hunting process can help organizations respond more quickly and in a more coordinated way. Threat hunters can use automation to study adversary behaviors, quantify what they observe, and test techniques to create detection content and determine the most effective response actions. Automated threat detection can be a critical component of modern cybersecurity approaches and can help organizations bolster their defenses and mitigate risks.¹

Evolution of adaptive and self-learning security systems ➤

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- **Real-time monitoring and adaptive security controls:** Your customer’s security teams must monitor and protect their organization’s digital assets, but managing large volumes of data and alerts can be overwhelming due to resource limitations and the sheer number of alerts. To address these challenges, security teams must leverage intelligent automation and advanced analytics. With automation, your customer can triage alerts, categorize them based on severity, and prioritize incident response. By automating routine tasks, the security team can focus their efforts on investigating and mitigating critical security incidents. Advanced analytics, such as machine learning and behavioral analysis, can help to identify patterns and anomalies within the alert data and enable faster and more accurate threat detection.¹⁵
- **Optimizing resource allocation and workforce productivity:** Clearly, AI/ML presents a massive opportunity for your customer to rethink their cybersecurity team. Because they operate at machine speed and scale — something humans can never attain — it can reduce MTTD and MTTR and increase analyst productivity. Instead of babysitting alerts that don’t amount to anything, they can get alerts for only high priority threats that require human critical thinking skills.

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- **Real-time monitoring and adaptive security controls** : Enriching security analysis with predictive analytics and contextual data – Predictive analytics in cybersecurity offers a slew of benefits, each contributing to a more effective and proactive security posture for your customer:¹⁶
 - **Early detection and prevention** : By analyzing anomalies, predictive models can often detect threats at their nascent stage. This early warning system allows for a head start on preventing a breach rather than just mitigating its aftermath.
 - **Better resource optimization**: With predictive analytics, security teams can focus their efforts and resources where they’re most needed. By prioritizing high-risk areas, organizations can optimize their cybersecurity strategies, ensuring they are resilient in the face of targeted attacks.
 - **Improved incident response** : Incorporating predictive analytics into a cybersecurity framework also improves incident response. Predictive models can model attack scenarios, which then prepare teams with response plans, mitigating the time taken to assess and act when a real-time incident occurs.
 - **Demonstrate compliance** : Predictive analytics can help organizations in regulated industries meet compliance requirements by demonstrating the proactive measures taken to secure data and prevent breaches.
- **Real-time monitoring and adaptive security controls** : Actionable threat intelligence gives analysts timely and relevant insights with which to effectively detect, analyze, and respond to threats. Actionable cyberthreat intelligence provides analysts with timely, relevant, and contextual insights into potential threats, enabling them to make informed decisions and take proactive measures to mitigate risks. Unlike raw data or generic threat feeds, intelligence is actionable and specific to your customer’s environment, enabling analysts to effectively prioritize their responses.¹⁷

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- **Continuous improvement and adaptation to emerging threats :** Continuous improvement and adaptation help your customer to build resilience and navigate unexpected challenges. By regularly evaluating and optimizing cybersecurity processes, you can help your customer to identify vulnerabilities and proactively make changes to mitigate risks.¹⁷
- **Self-healing and resilience against evolving attack techniques :** NIST lays out four goals that can be used to help your customer build their cyber resiliency strategy:¹⁸

1	Automated attacks: Maintain a state of informed preparedness for adversity.	3	Recover: Restore mission or business functions during and after adversity.
2	Targeted attacks: Continue essential mission or business functions despite adversity.	4	Adapt: Modify mission or business functions and/or supporting capabilities in response to predicted changes in the technical, operational, or threat environments.

In other words, your customer must improve resiliency by recovering from the threat and then modifying processes, practices, and technologies to better anticipate and withstand the next threat.

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Some security solutions come with AI chatbots that act as assistants to capacity-challenged security analysts. These generative AI chatbots aim to increase your customer’s organizational efficiency by giving security analysts an AI engine that can help them identify, analyze, and mitigate threats using conversational prompts and interactive dialogue. An AI assistant not only transforms how analysts view their jobs, but it can also empower them: New analysts can learn from data-driven insights, while experienced analysts can focus on more important tasks — all while reducing the chances of missing important data.

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Data loss prevention (DLP) solutions can help detect and prevent data theft, accidental data sharing, and unauthorized data leakage by protecting endpoints and preventing unauthorized access. They combine standard cybersecurity measures — such as firewalls, endpoint protection, monitoring services, and antivirus software — with advanced solutions like AI/ML and automation to help your customer identify sensitive data, monitor data usage, and ensure regulatory compliance. DLP solutions can also help improve an organization’s overall cybersecurity posture, especially on devices that are sensitive to threats, and protect intellectual property and ensure customer trust.¹

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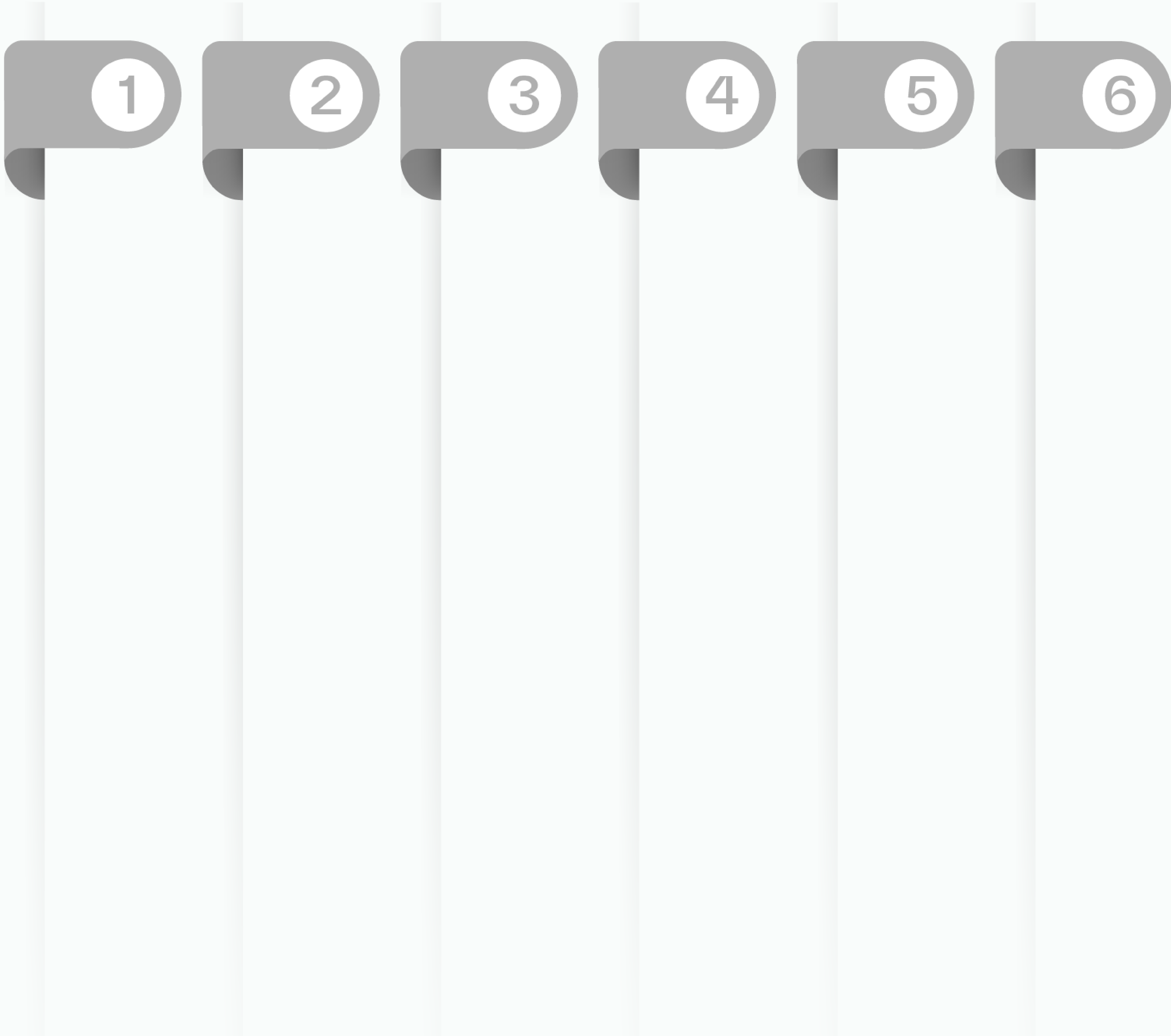
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1 Build a Zero-Trust Roadmap

Success starts with a comprehensive zero-trust roadmap that outlines the activities needed to implement your customer zero-trust strategy. This strategy document will provide a clear view of the deliverables, budget, and business outcomes expected.

- Determine a framework, whether it’s the NIST or CISA framework or a framework from Gartner, Forrester, or others. TD SYNnex can help you select the right vendors to craft a zero-trust vision.
- Recruit business and IT stakeholders—from IT operators to enterprise architects to business unit leaders to C-suite executives—who can help build your customer’s zero-trust roadmap and evangelize the need for new or shifting investments or significant cultural and organizational change.
- Identify interdependencies between the zero-trust implementation and other IT and business projects.

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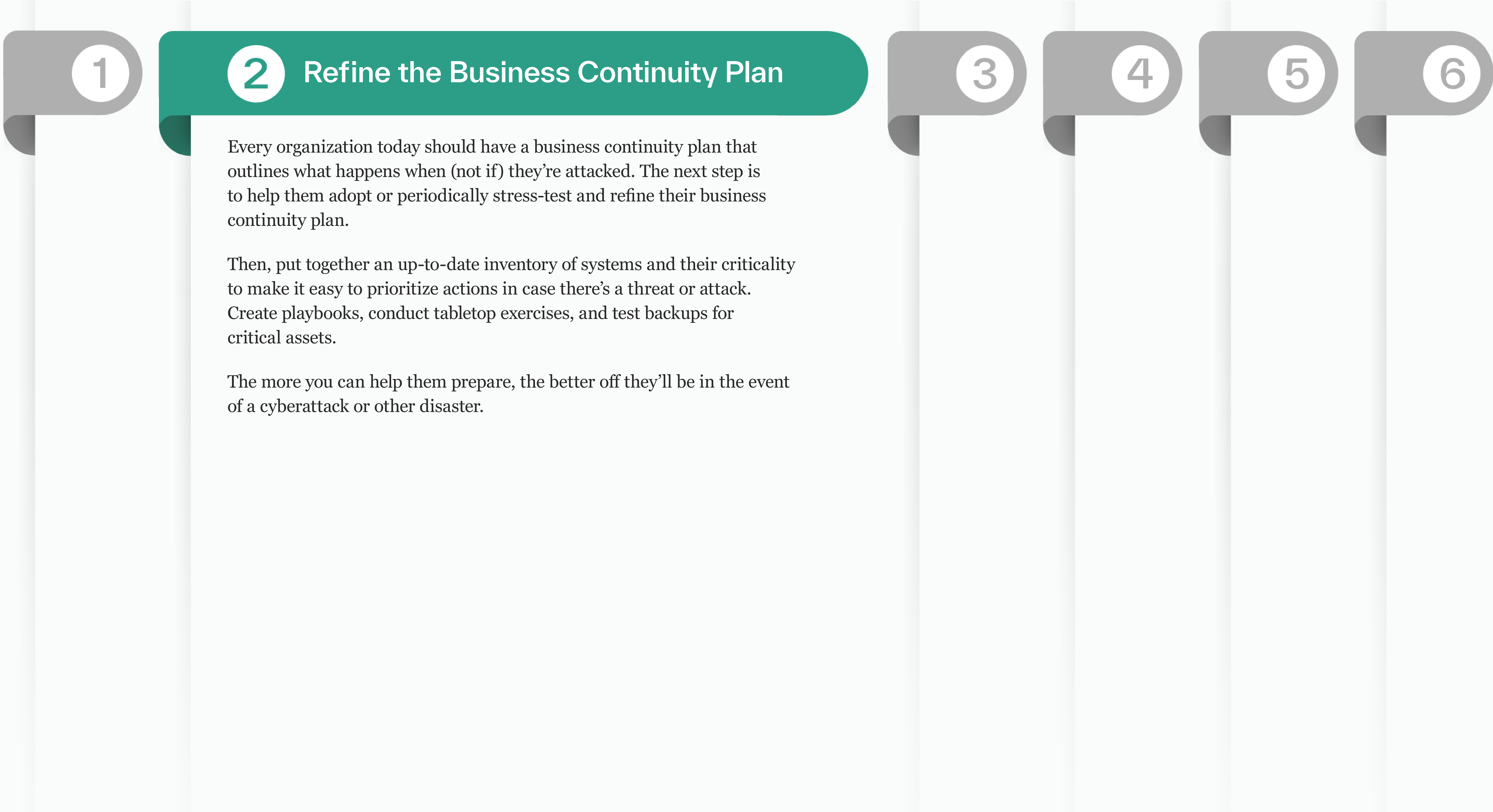
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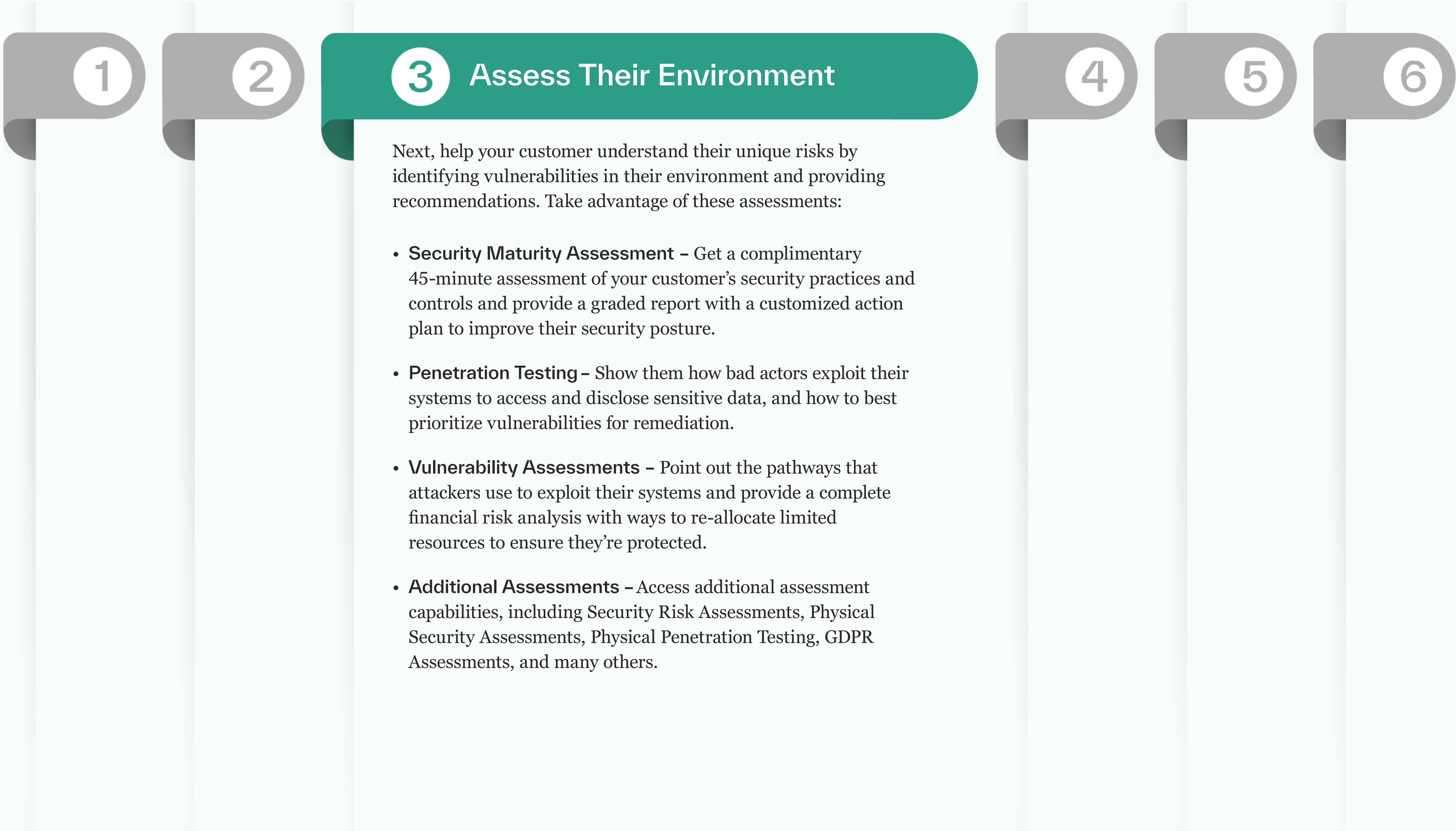


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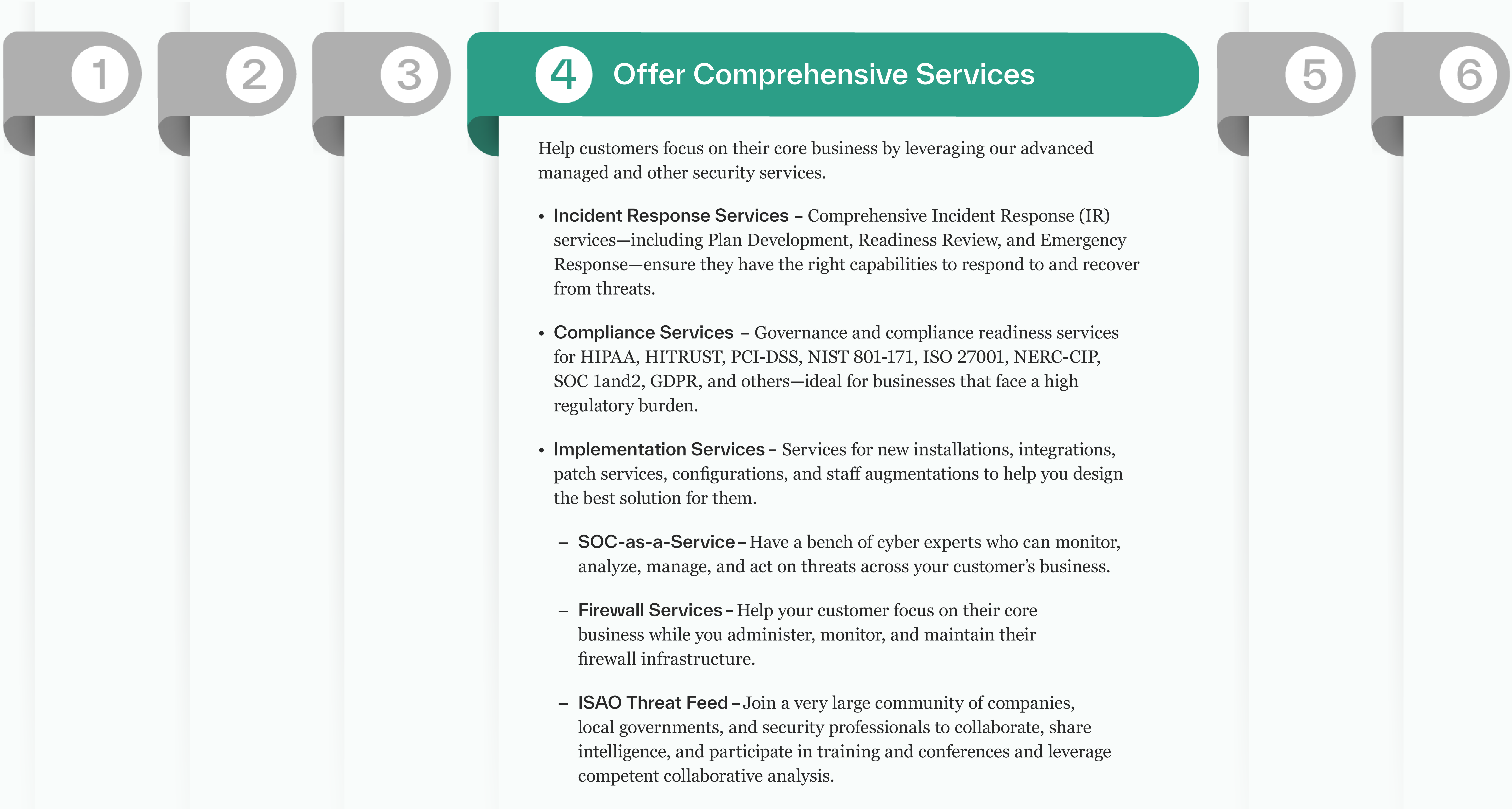


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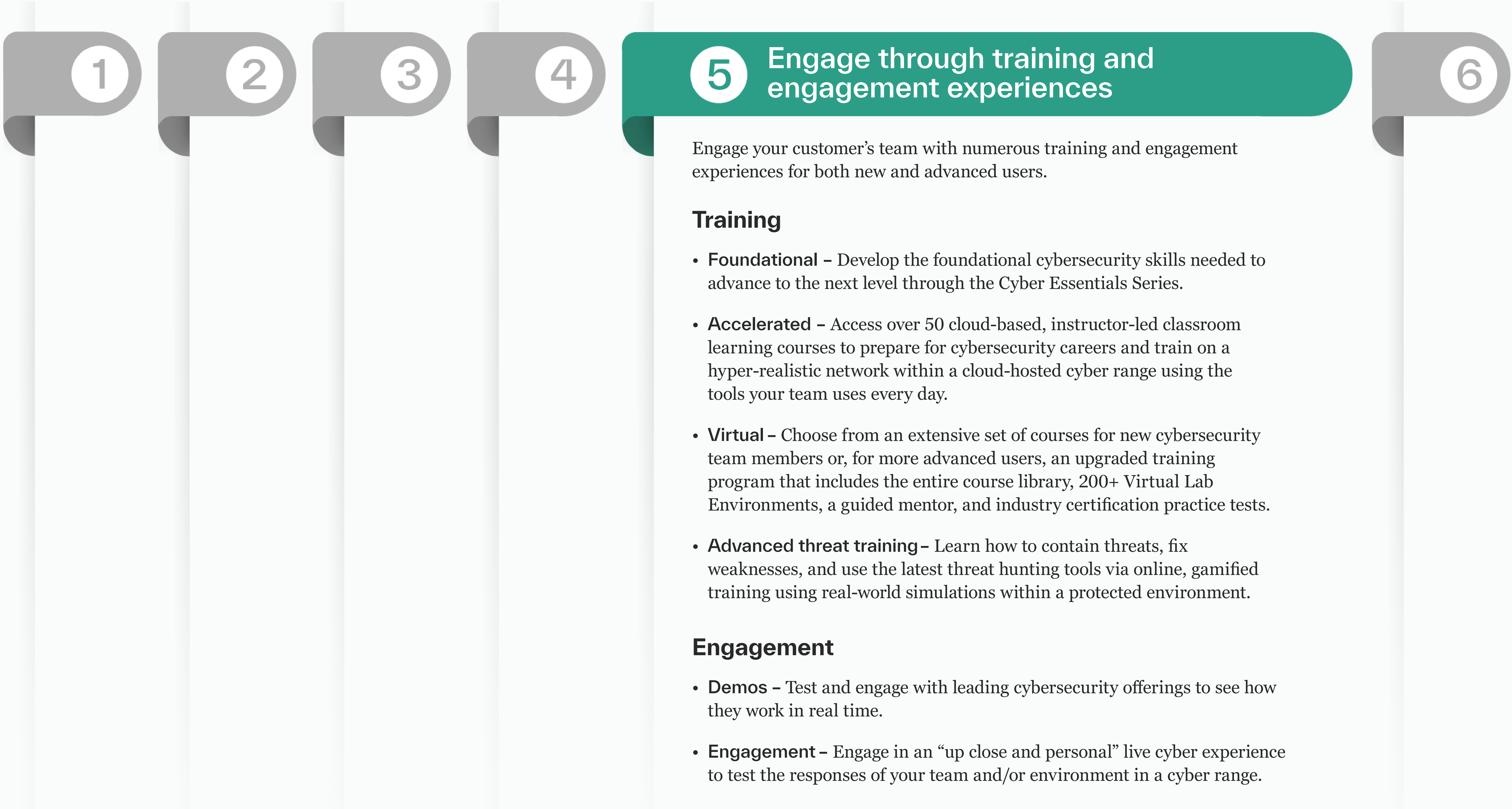


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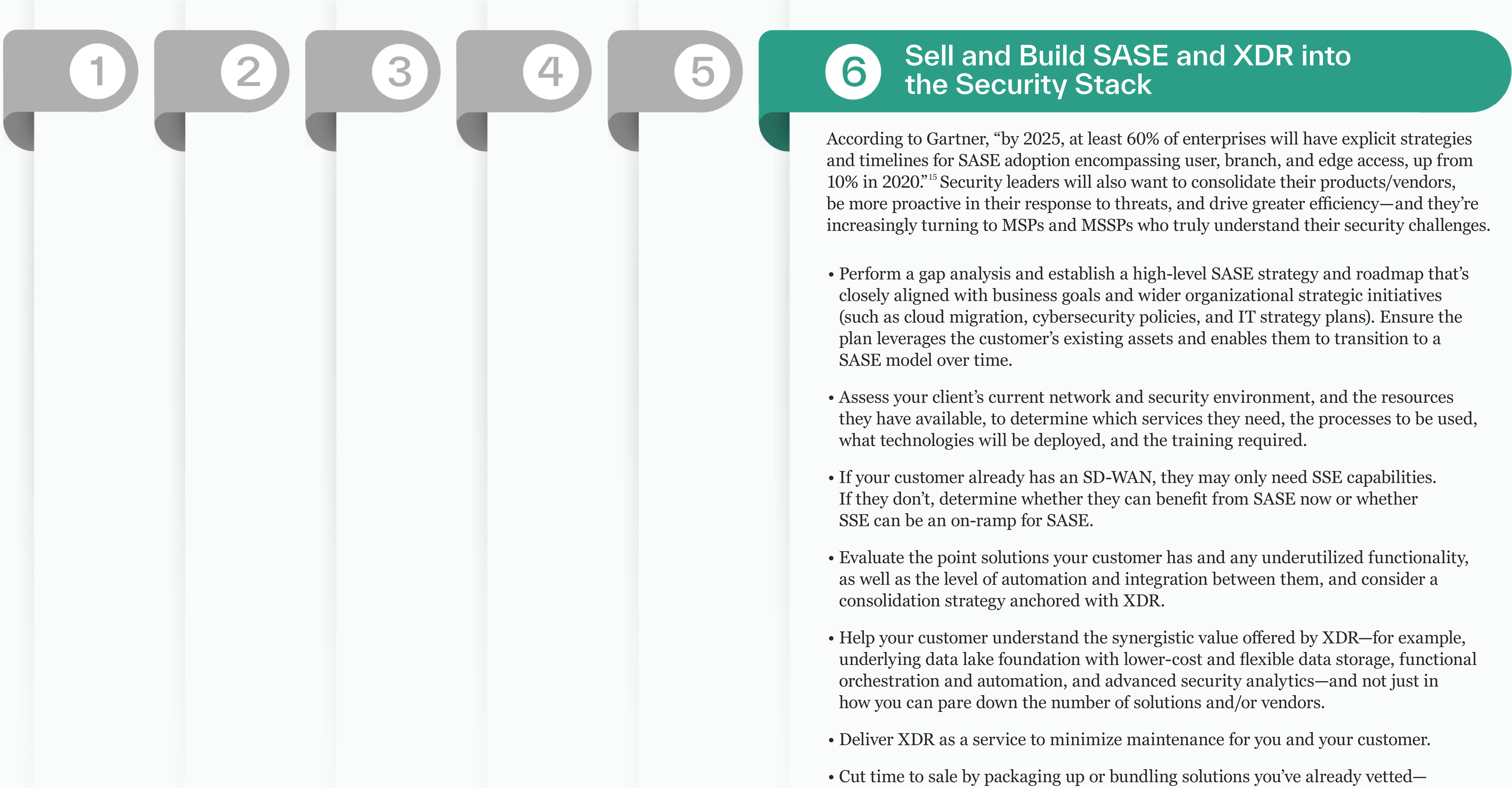


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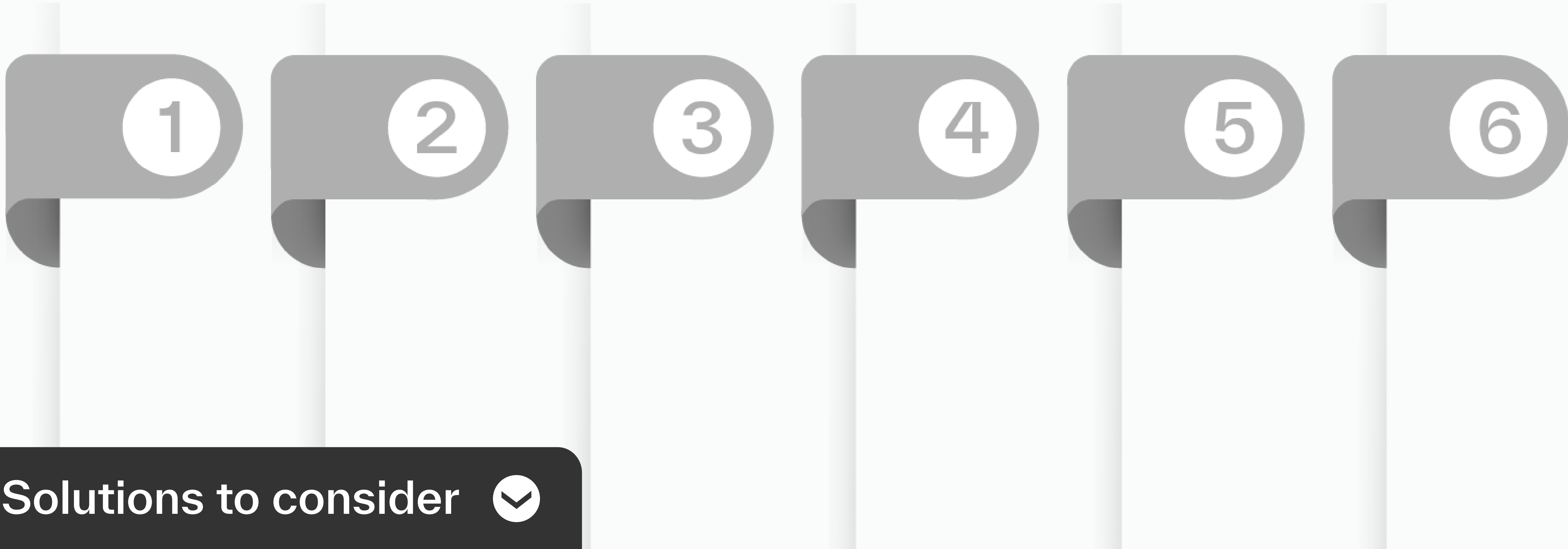


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RUCKUS Networks

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Vendor Solutions for AI-Powered Cybersecurity

- AI-Powered Threat Detection and Prevention
- User and Entity Behavior Analytics (UEBA)
- Security Orchestration, Automation, and Response (SOAR)

- **RUCKUS One** – Deploy networks fast and deliver exceptional user experiences with turnkey NaaS and AI-driven unified management of converged multi-access public and private enterprise networks.
- **RUCKUS T670 Wireless Access Point** – Provide seamless, high-performance connectivity in rugged outdoor environments with an enterprise-grade outdoor Wi-Fi 7 solution, featuring RUCKUS AI, BeamFlex technology, and support for the 6 GHz band.

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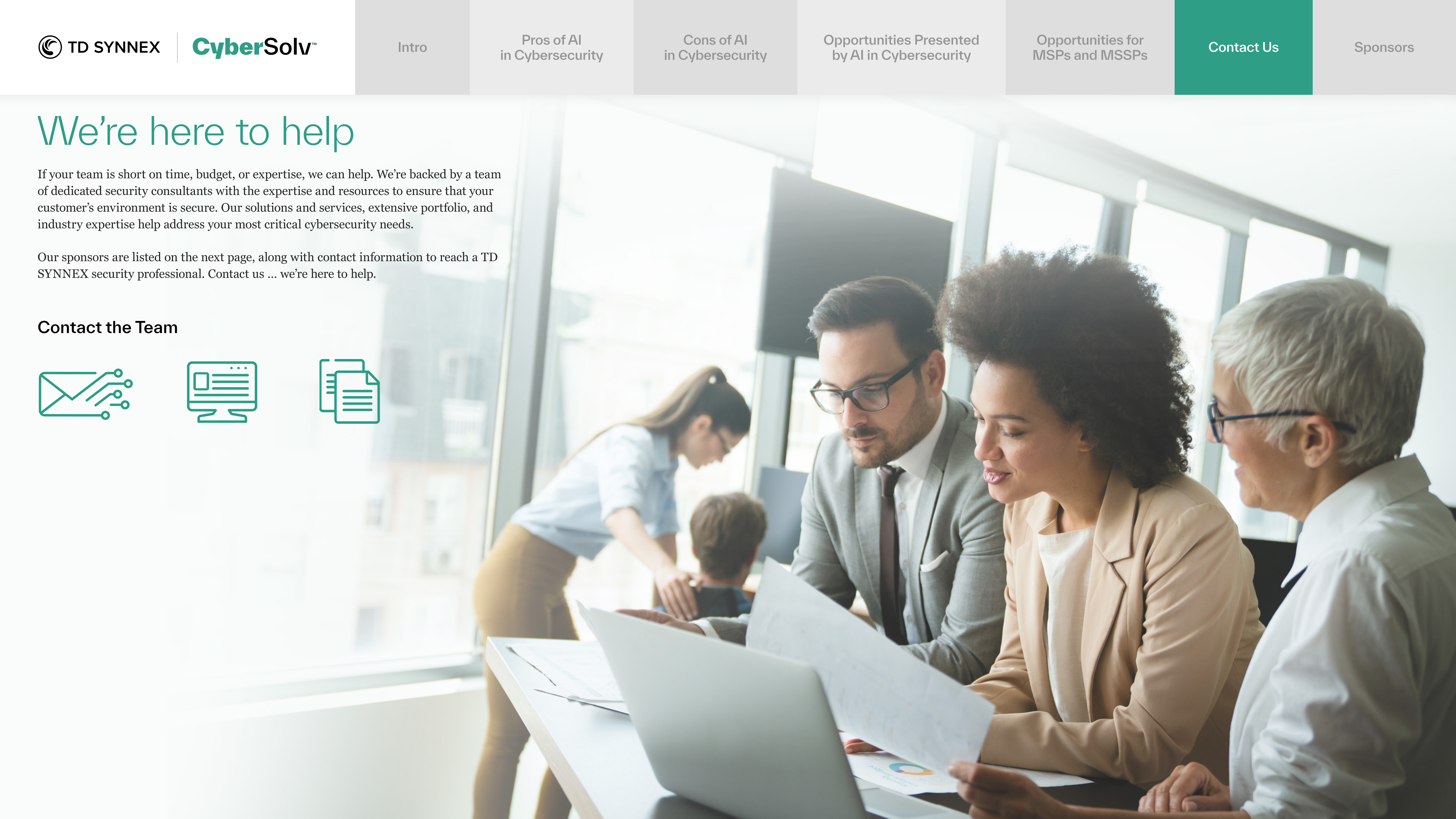
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