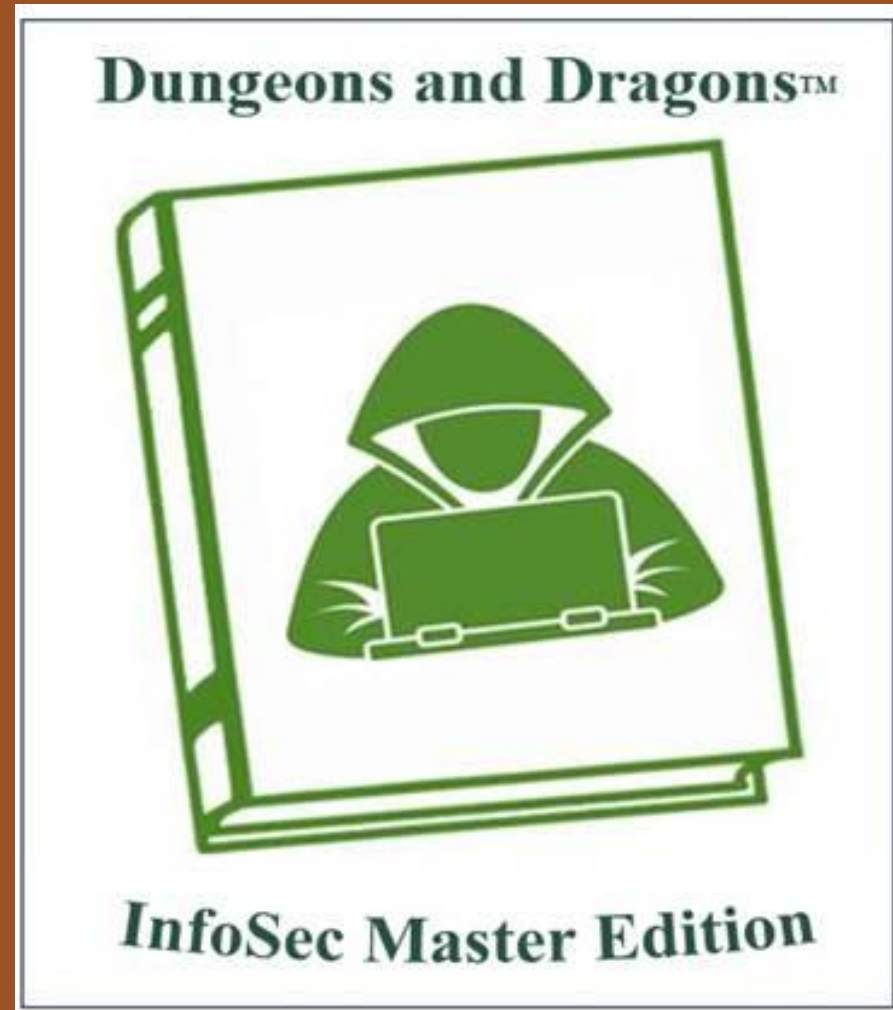


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Security Considerations During M&A

November 6, 2023



INTRODUCTIONS



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As organizations continue to evolve, attackers are also evolving their tools, tactics, and procedures (TTPs) to hit organizations where it hurts most

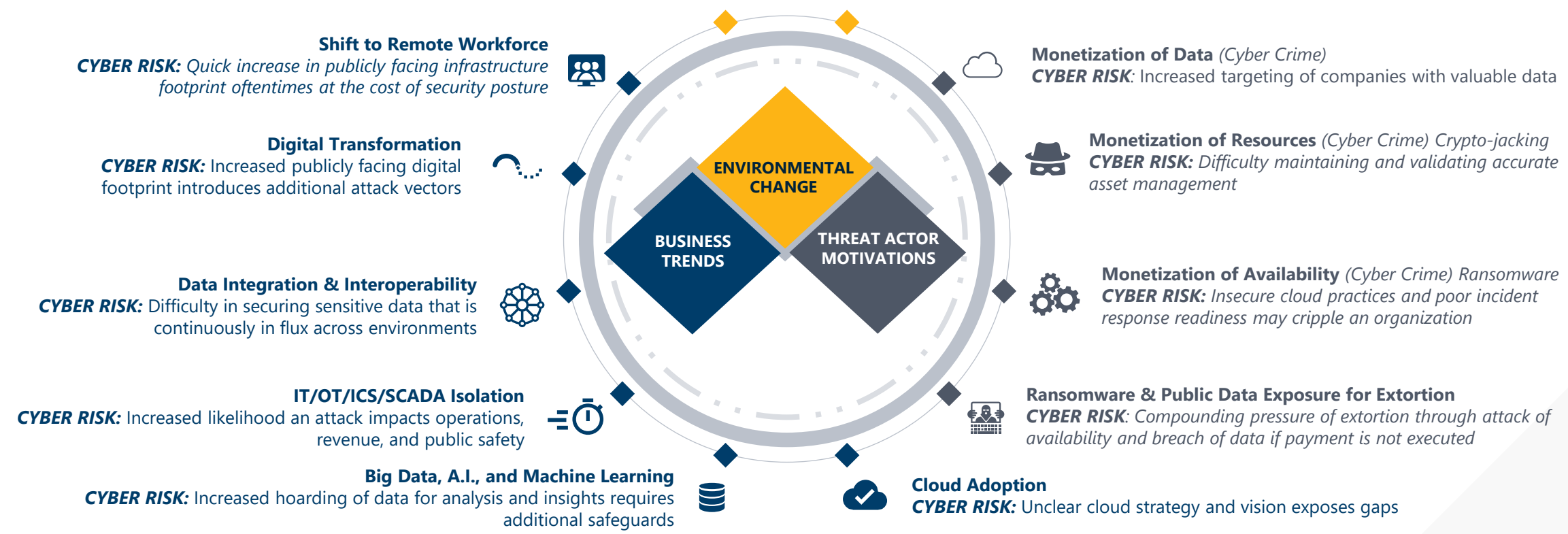
ENVIRONMENTAL CHANGES

CYBERWARFARE *(Nation-State)*
CYBER RISK: Actors causing chaos and confusion for partners of high value competitors





SUPPLY CHAIN ATTACKS *(Nation-State & Cyber Crime)*
CYBER RISK: Compromise of partners for data exfiltration or ransomware



The frequency and impact of cybersecurity events continues to increase



74%

of breaches involve the human element¹



13%

Increase in average total cost of a breach from 2020 to 2023¹



82%

Share of breaches that were cloud-based¹



295

Average number of days to identify and contain a ransomware breach¹



83%

Share of organizations that have had more than one data breach¹



\$5M

Average total cost of a critical infrastructure data breach¹



277

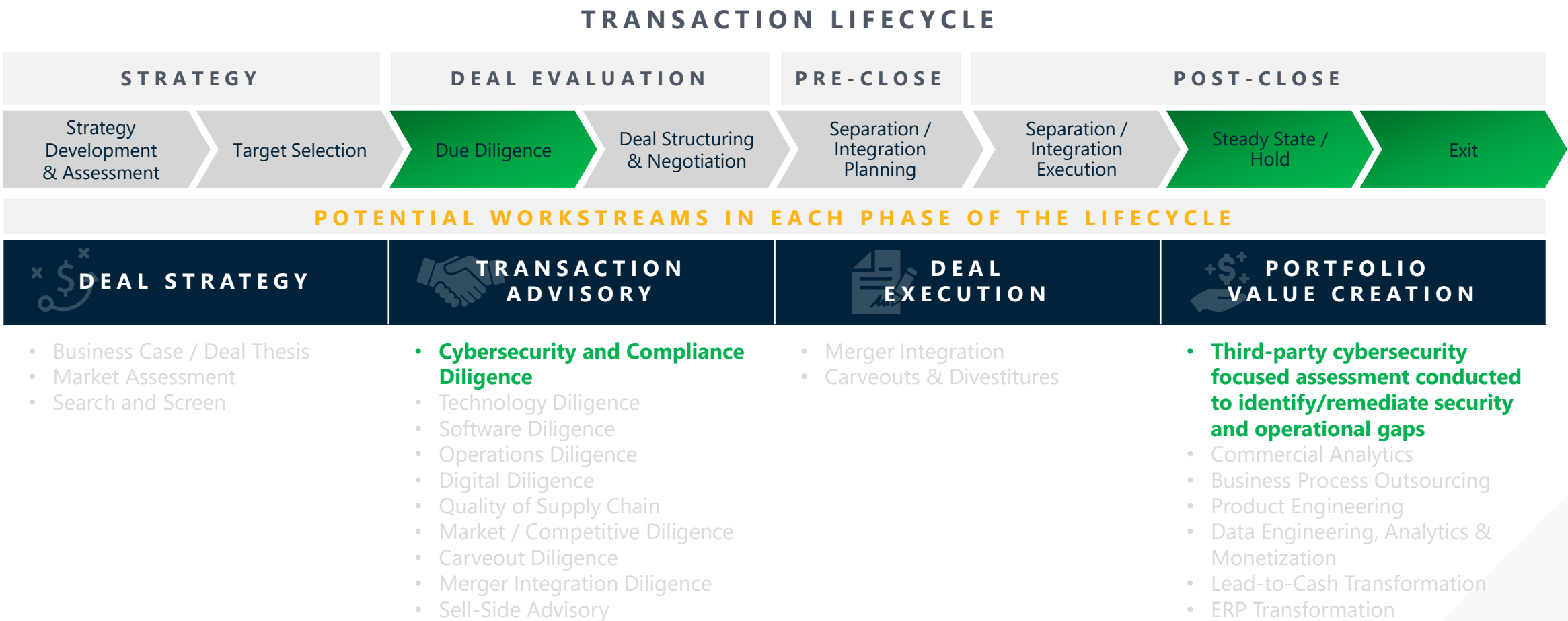
Average number of days from data breach identification to resolution and restoration of service¹



35%

of ransomware attacks involved the use of email²

A typical M&A transaction lifecycle will be comprised of multiple stages; cyber is typically a critical component in due diligence, hold, and exit stages



During the due diligence stage, acquisitions/transactions should incorporate activities and focus on identifying cyber, privacy, and compliance risks that could impede value creation

GENERAL CYBERSECURITY

- Confirm presence of security technical controls
- Examine operationalization of security controls
- Review business resiliency in the event of a security incident
- Assess security governance program

COMPLIANCE

- Identify risks, exposure, and potential qualitative and quantitative implications of industry regulations,
 - PCI DSS
 - HIPAA
 - Data Privacy Frameworks (e.g., GDPR, CCPA)



APPLICATION SECURITY

- Analyze the Software Operations process for limitations that drive increased security risk and vulnerabilities
- Identify potential likelihood of an existing or future breach due to weaknesses in the application architecture
- Work with partners to identify known vulnerabilities in third party components utilized by the application

OPERATIONAL TECHNOLOGY

- Review and assess software applications and devices that directly control physical operations
- Examine and confirm OT system are in separate network
- Confirm controls are applied to relevant data sources

SECURITY ORGANIZATION & SPEND

- Identify security spend
- Review organization's cyber risk profile
- Design new entity's security organization for carve-outs/merger integration

Polling Question 1

What is the primary purpose of cybersecurity due diligence in an M&A or investment context?

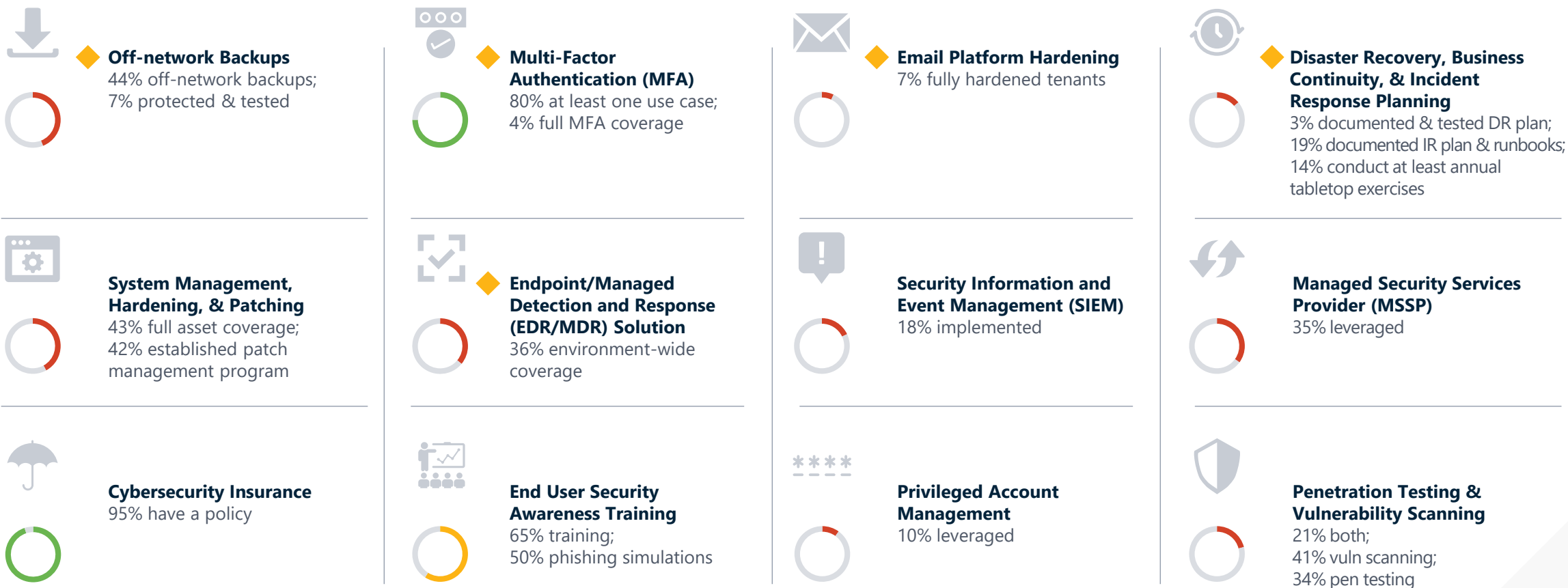
- (a) To identify potential cybersecurity risks and vulnerabilities*
- (b) To maximize the purchase price*
- (c) To streamline the deal process*

*Key cyber controls to
evaluate and consider*

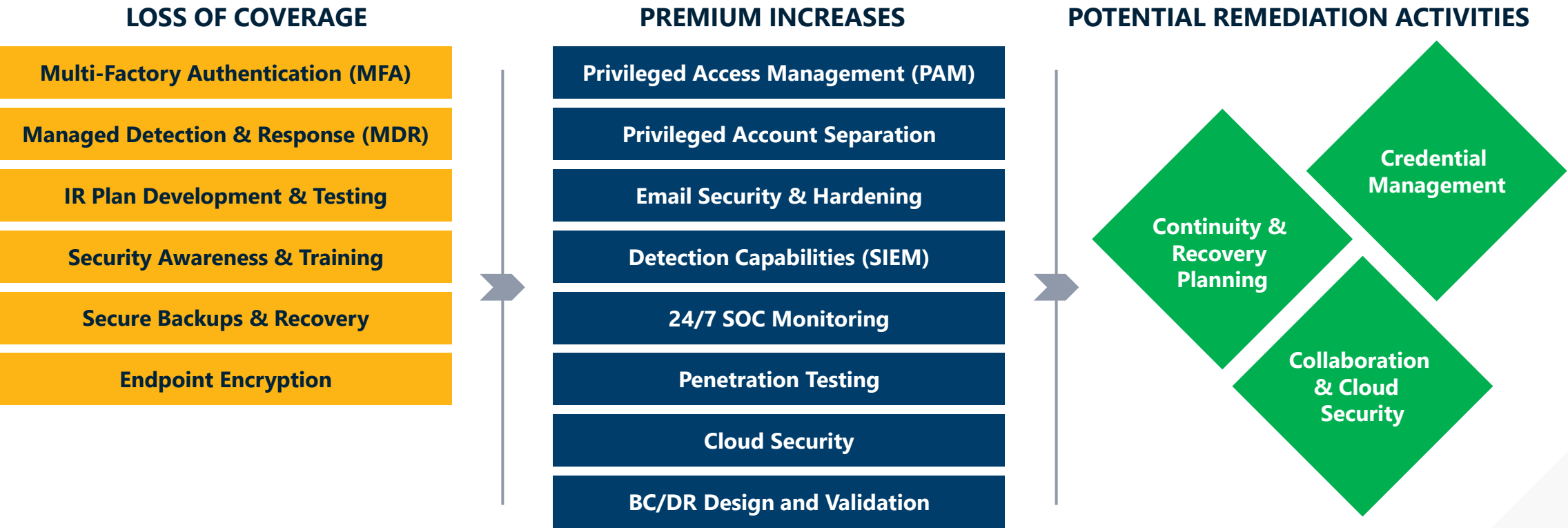
The following cybersecurity controls can help reduce the likelihood and impact of an incident and are a key focus of cyber programs

Off-network Backups 	Multi-Factor Authentication (MFA) 	Email Platform Hardening 	Disaster Recovery, Business Continuity, & Incident Response Planning 
System Management, Hardening, & Patching 	Endpoint/Managed Detection and Response (EDR/MDR) Solution 	Security Information and Event Management (SIEM) 	Managed Security Services Provider (MSSP) 
Cybersecurity Insurance 	End User Security Awareness Training 	Privileged Account Management 	Penetration Testing & Vulnerability Scanning 

Understanding a target’s disposition in the following cybersecurity controls can help reduce the likelihood and impact of an incident and should be a key focus of cyber programs



Gaps in the below areas have resulted in lower cybersecurity resiliency and increased likelihood of business-impacting outages, and can also lead to loss of cybersecurity insurance or increases in premiums



Polling Question 2

How can the estimated cost of remediating cybersecurity issues impact the due diligence process?

- (a) It won't; cost is irrelevant*
- (b) It can affect the deal's valuation and terms*
- (c) It's only a minor consideration*

While many companies leverage multi-factor authentication (MFA) for some use cases, there are additional use cases to which MFA should be expanded



EMAIL



**REMOTE
ACCESS**



**KEY BUSINESS
APPLICATIONS**

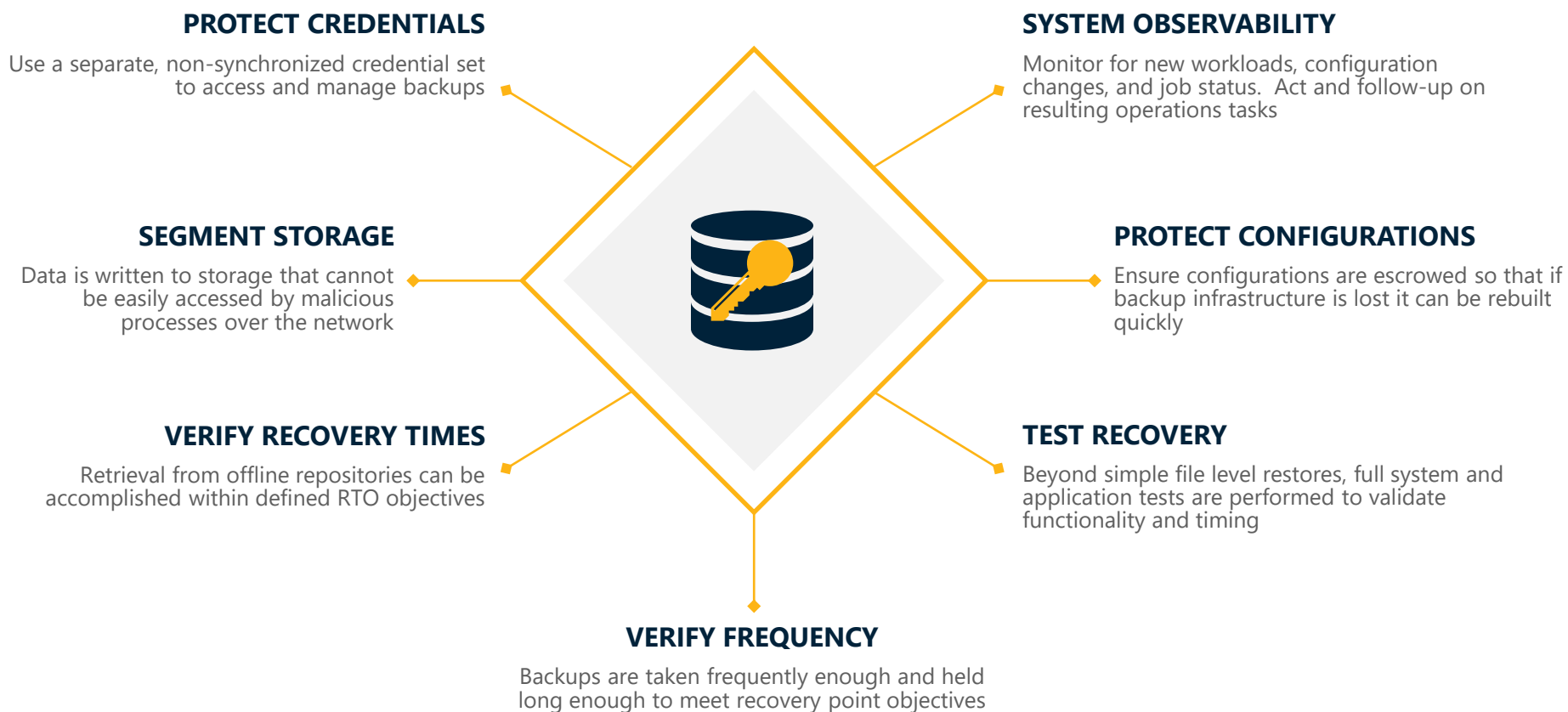


**ADMINISTRATIVE
FUNCTIONS**

Approximately 80% of the companies we've evaluated/diligenced in the last two years have multi-factor authentication enabled for at least one of the above use cases, with the majority focused on email.

Expanding MFA usage to additional use cases was recommended at approximately 90% of companies.

Across due diligence and assessment engagements, West Monroe recommended enhancing backups at 80% of companies; common traits of backup implementations that allow organizations to recover quickly from a worst-case disaster scenario are highlighted below



WM often finds email environments are not fully hardened, which increases the likelihood of business email compromise that can lead to a cybersecurity incident a data breach or ransomware attack



Account & Authentication

- Reduce number of administrators Remove administrative rights from standard users
- Enforce MFA for all accounts
- Block legacy protocols



Mobile Application / Device Management

- Require a PIN and encryption
- Containerize and protect mobile application data
- Block unmanaged devices and applications



Application Permissions

- Configure third party applications to require administrator approval
- Review application lists



E-mail Platform

- Configure SPF records
- Configure DKIM and DMARC
- Implement controls around spam filtering



Auditing

- Review audit logs on a set basis
- Configure alerting and monitoring
- Export email logs to a SIEM



Data Loss Prevention (DLP)

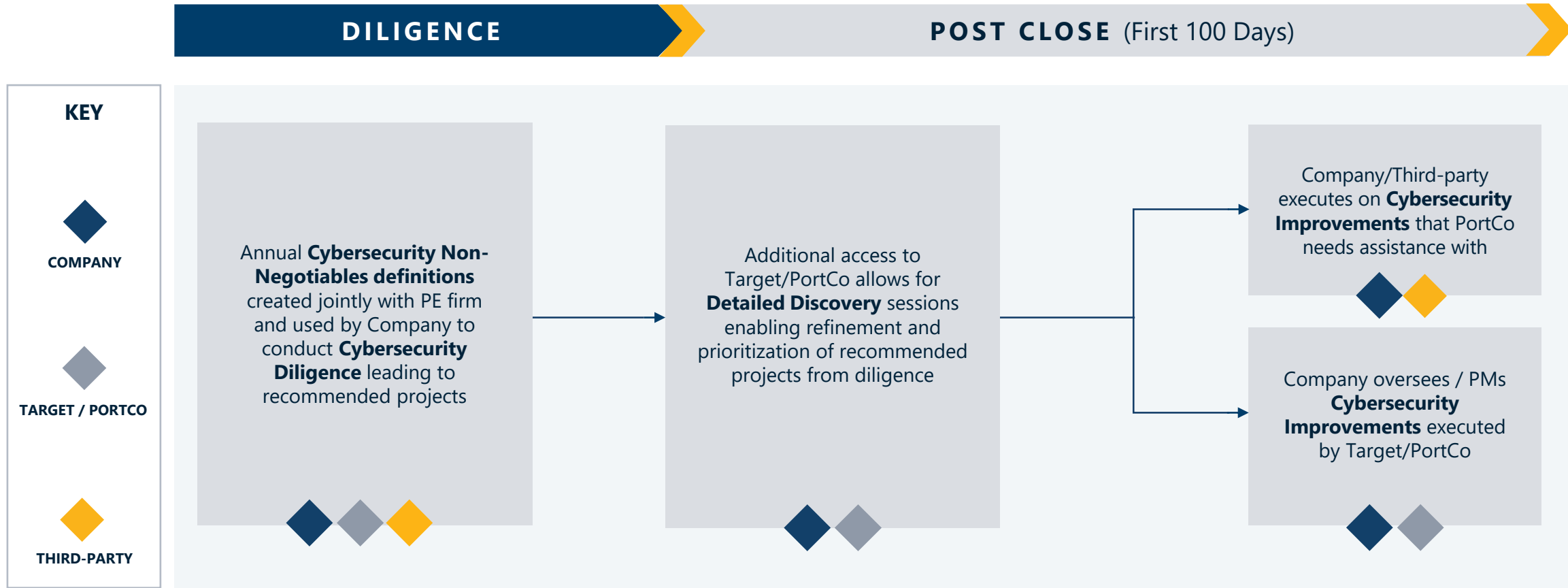
- Disable automatic external e-mail forwarding
- Configure DLP policies
- Disable external calendar sharing

Polling Question 3

Which of the following is a key component of assessing cybersecurity risk during due diligence?

- (a) Believing the target company's claims*
- (b) Relying solely on external audits*
- (c) Independent evaluation*

Based on a jointly defined set of cybersecurity non-negotiables, an organization should prioritize understanding a company’s cyber posture against those as part of diligence and then work to rapidly remediate as needed post close





Thank you.

Questions?

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