

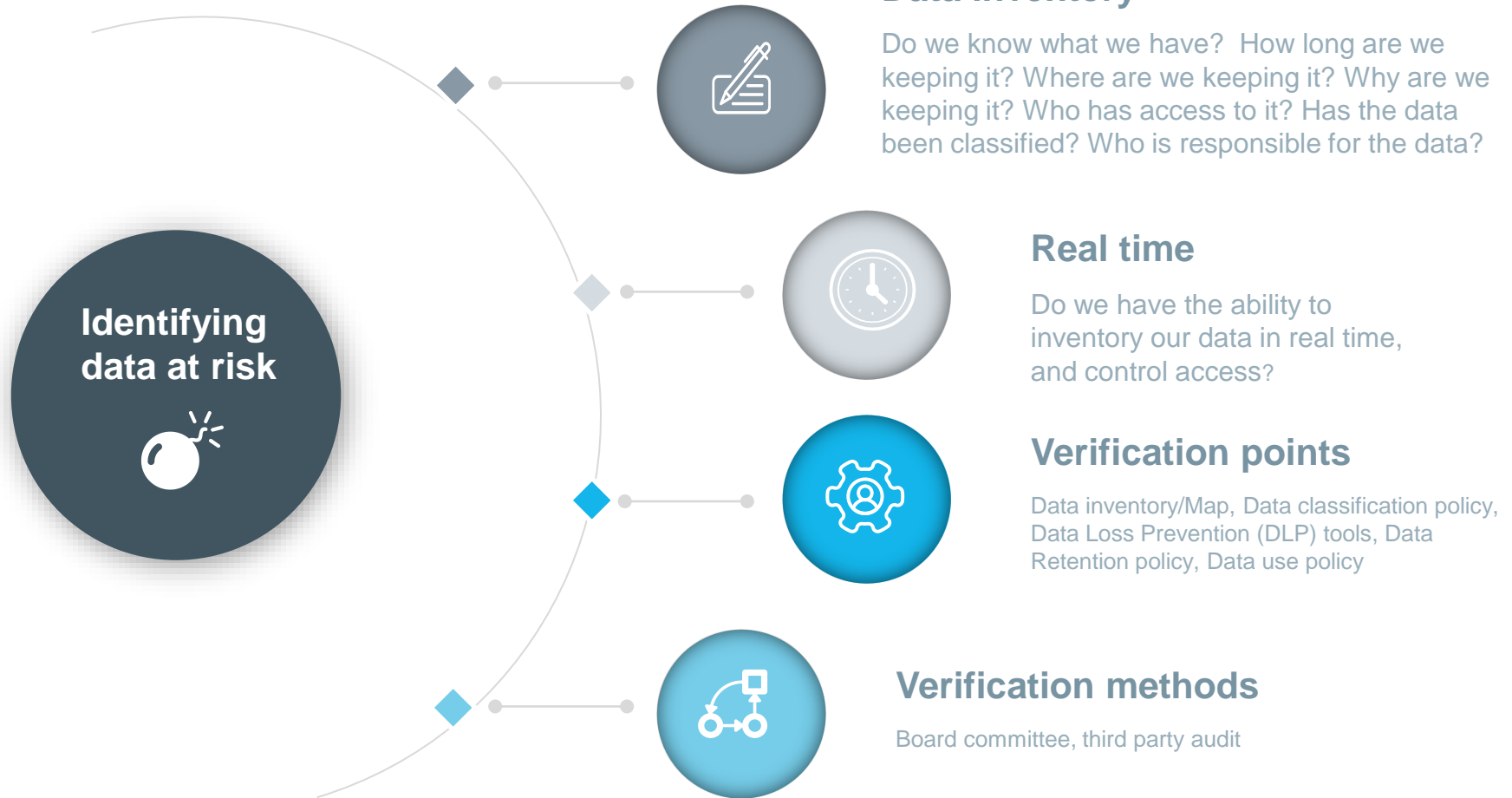
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# Effective BEC and Ransomware Mitigation

Oct 2019

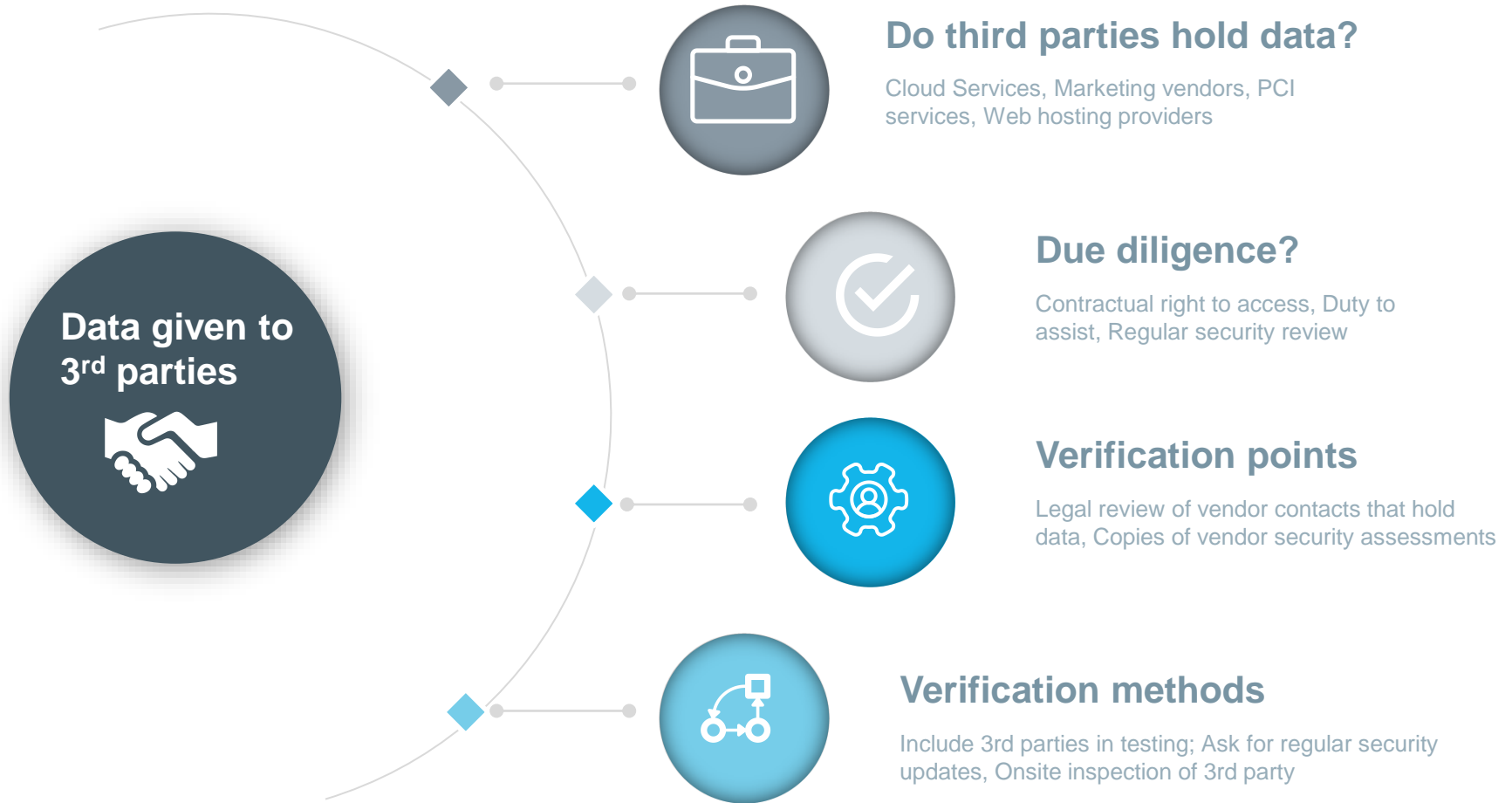
- Jonathan Fairtlough, Managing Director, Cyber Risk, Kroll
- James P. Melendres, Partner and Co-Chair, Cyber Security, Data Protection and Privacy, Snell & Wilmer

# Preparation: What Do We Have to Protect?



**BOARD OVERSIGHT:** Keeping data that can expose the company to risk balanced against the cost of loss

# Preparation: Who Holds Our Data?



**BOARD OVERSIGHT:** Ensure that third parties meet the same security standards as the company.

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# Data and System Backup

Review and verify your backup strategy:

- What systems and data is being backed up?
- How often do backups happen?
- Where is our data backed up to?
- How often do we verify the backups?
- How complete is the verification?
- Is a physical copy kept?
- Do we have images of key system data?

- A good backup acts as a last defense- it ensures that if all else fails, the data needed to keep a business running is available. Everyone has one- kind of
- Backup is boring, tedious, consumes disk and IT resources, and can sit for years without being needed.
- It can fail for multiple reasons:
  - 1. It was not done properly, and no one checked.
  - 2. The wrong things were backed up.
  - 3. The media failed, and there was no redundancy
  - 4. The attacker turned it off, or destroyed it
- Ask your IT team the questions on the side bar.
- Make sure you know the what, where and how of your backups, and test what you are told.

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# Multi Factor Authentication (MFA)

Do we have MFA installed with the services for:

- Financial controls
- Audit reporting systems
- ERP systems

Do we have MFA installed for email?

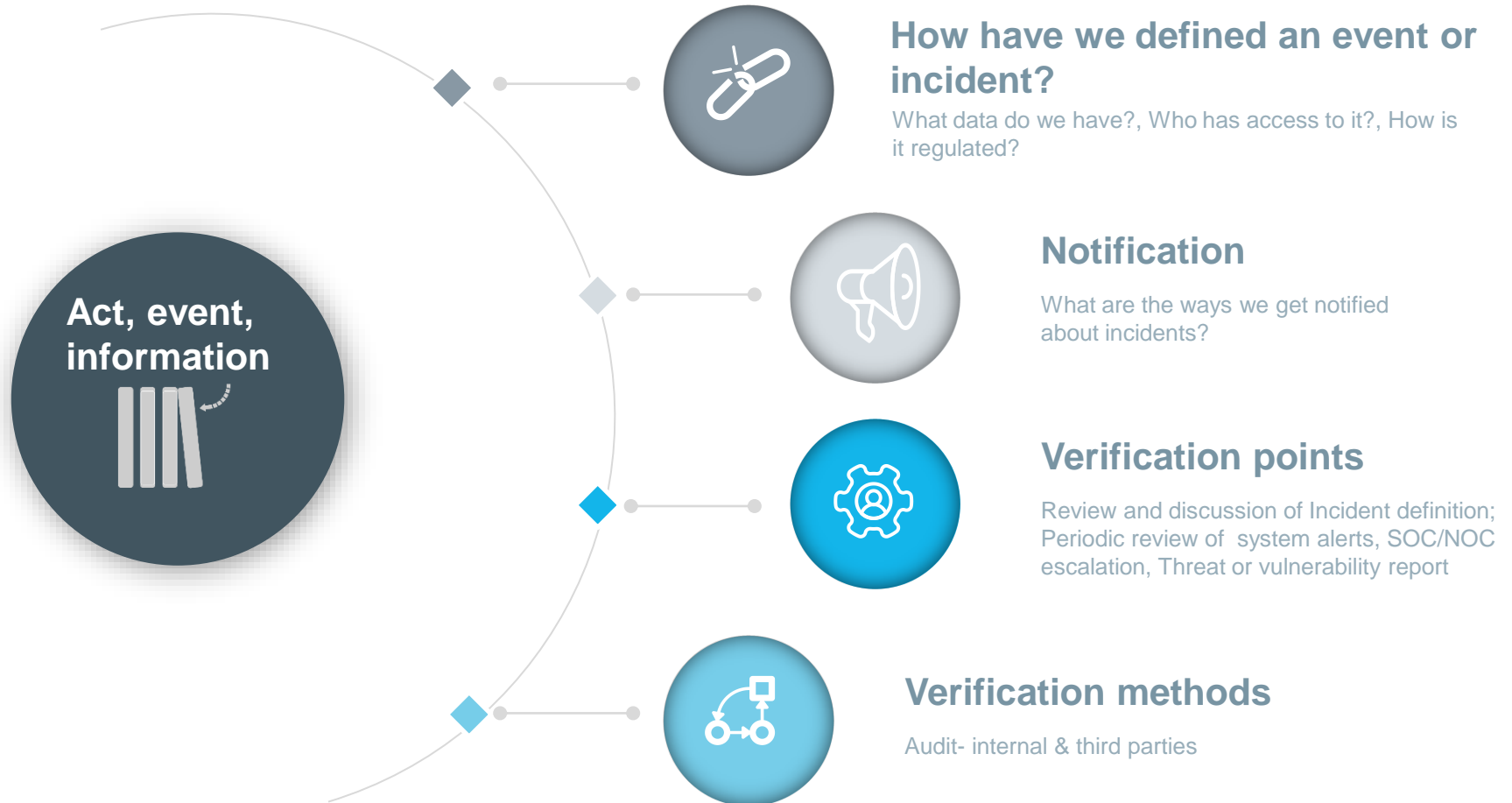
- Office 365/ GSuite

Do we have MFA installed on all systems used for remote access?

- VPN?
- Citrix/ VmWare
- FTP

- Username and password is no longer enough. They are too easy to either guess, research, brute force or trick out of a user.
- Multi-factor Authentication is needed.
- This is when a user needs to enter another piece of information, usually a code, generated from a token or application or text, in addition to their username and password, to get connected to the system or application.
- Proper deployment can stop the usefulness of the most common attacks:
  - Phishing- the attacker does not have the code
  - Social Engineering- asking for the code must be done each time the attacker wants access
  - Hacking- getting into a network does not get you into data

# Preparation: Can We Identify a Problem Early?



**BOARD OVERSIGHT:** Review the definition of an incident with management to ensure that focus is directed on the proper business risks

# Engage in Endpoint Threat Detection

A key measure of a modern, effective information security program is its ability to rapidly detect **and** effectively respond to an intrusion. Given the widespread use of cloud data, the detection capacity must exist on the desktop

- Identify and flag known bad executables
- Analyze the behavior shown on a computer against attack methods and processes
- Get data from Multiple threat intelligence sources and 'learn' IOC.s
- Be able to conduct threat hunting and get identification of threats
- Rapid notification of **validated** threats



# Preparation: Is Help Lined Up?



**BOARD OVERSIGHT:** Ensure that resources outside the company are available and compatible with the business units in case of need



# Pre Breach Work - Refining the Incident Response Plan

## The questions to ask the client and compliance team

Is there an Incident Response (IR) Plan?

- Does it define what an incident is?
- Does it establish a team with decision-making authority?
- Does it define criteria for declaring an incident?
- Does it define criteria for escalation?
- How often is it tested?
- How is it deployed?

Do we have the technical solutions and expertise to detect an incident?



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# Pre Breach Work - IR Team Vetting

## How to evaluate preparedness

### Do we have an IR team?

- Who are the key members?
  - » Legal counsel
  - » Senior management
  - » CISO
  - » PCI implementer
  - » Others

### Who leads the team?

- Decision-making authority
- Competence
- Familiarity with the Incident Response Plan

### What is the team's purpose?

- Reduce business risk to the organization
- Minimize the impact of an incident on the reputation, operations, and finances of the organization if an incident occurs

### Are we providing effective support to the IR team?

- Are we providing continuous training to the team and our staff?
- Does the team have access to all business units and groups?
- Does the IR team have access to details about vendor security?
- Has the IR team identified all third party dependencies?

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# Protecting Incident Response Under Privilege

## Assume potential disclosure

- *United States v. Bryan*, 339 U.S. 329(1950):
  - “There is a general duty to give what testimony one is capable of giving, and any exemptions which may exist are distinctly exceptional, being so many derogations from a positive general rule.”
- You are required to disclose communications or reports unless an exception applies
- Treat everything as potentially subject to disclosure

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# Protecting Incident Response Under Privilege

## Information generated

- Responding to a cyber event might generate several types of communications or reports that you may want to consider seeking to protect from disclosure
- These include:
  - Assessment of network vulnerabilities
  - Suggestions for improvements of cybersecurity
  - Previous incidents
  - Management knowledge of previous incidents
  - Consumer complaints
  - Proof of negligence
  - Failure to notify of incident
  - Employee error (phishing)

# Protecting Incident Response Under Privilege

## Disclosure risk

- Goal: Minimize disclosure risk in responding to cyber incident
- Several adverse parties might seek to discover/make public information that a company or its agents generate in response to a cyber incident:
  - Opposing Lawyers
  - Regulators
  - Press



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# Protecting Incident Response Under Privilege

## Opposing lawyers seeking info

### 1. FTC and State Attorneys General

- Consumer Financial Protection Bureau: prohibits unfair, deceptive, or abusive practices

### 2. SEC

- Disclosure requirements for public companies

### 3. Shareholders

- Securities fraud (alleged impact on stock price)
- Derivative actions (alleged breach of fiduciary duties of care or oversight regarding management of cyber risks or adequacy of public reporting)

### 4. Business parties

- Litigation not common; usually handled via negotiation
- Contract claims (e.g., compliance with law, notification, etc.)
- Other alleged duties (duty of care owing to “special relationship” or statutory obligations)

### 5. Private plaintiffs

- Tort law (e.g., negligence, invasion of privacy, etc.)
- Statutory (e.g., FCRA, state laws, etc.)
- Contract claims (e.g., customer agreement, privacy policy, etc.)
- Misrepresentation of practices

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# Protecting Incident Response Under Privilege

## Protected information

- Neither federal nor state courts recognize a stand-alone privilege for cybersecurity communications or work product
- Categories of information protected from disclosure:
  - Attorney–client privilege
  - Work product doctrine
- Goal is to keep information generated in Incident Response efforts in these protected categories

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# Protecting Incident Response Under Privilege

## Attorney-client privilege

- Strongest form of protection
- Protects communications between attorneys and clients in seeking and providing legal advice
- May include non-lawyers who are assisting the attorney in representing the client
- Protects
  - Communications between a client and attorney
  - For the purpose of rendering legal advice
  - Made in confidence



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# Protecting Incident Response Under Privilege

## Work product doctrine

- Weaker form of protection
- Protects information
  - prepared in anticipation of litigation
  - by or for a party or its representative
- Might still be subject to disclosure if another party
  - has a substantial need for the information and;
  - cannot get it elsewhere without undue hardship

# Protecting Incident Response Under Privilege

## Protections applied

*Genesco v. Visa*, 302 F.R.D. 168  
(M.D. Tenn. Mar. 10, 2014)

- Retailer's GC retained cybersecurity consultant.
- Agreement with consultant stated that engagement was "in anticipation of potential litigation and/or legal or regulatory proceedings."
- In litigation, opposing party sought work product of consultant and deposition of consultant and GC.
- Court largely denied discovery requests.



# Protecting Incident Response Under Privilege

## The danger of implicit waiver

*Leibovic v. United Shore Financial Services, LLC*, 2017 WL 3704376 (E.D. Mich. Aug. 28, 2017)

- The privilege cannot be used as both “a sword and a shield.”
- United Shore disclosed the conclusions from its forensic firm’s reports, but asserted work product protection over the reports.
- The court found that United Shore implicitly waived privilege to the reports when it disclosed its conclusions.



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# Protecting Incident Response Under Privilege

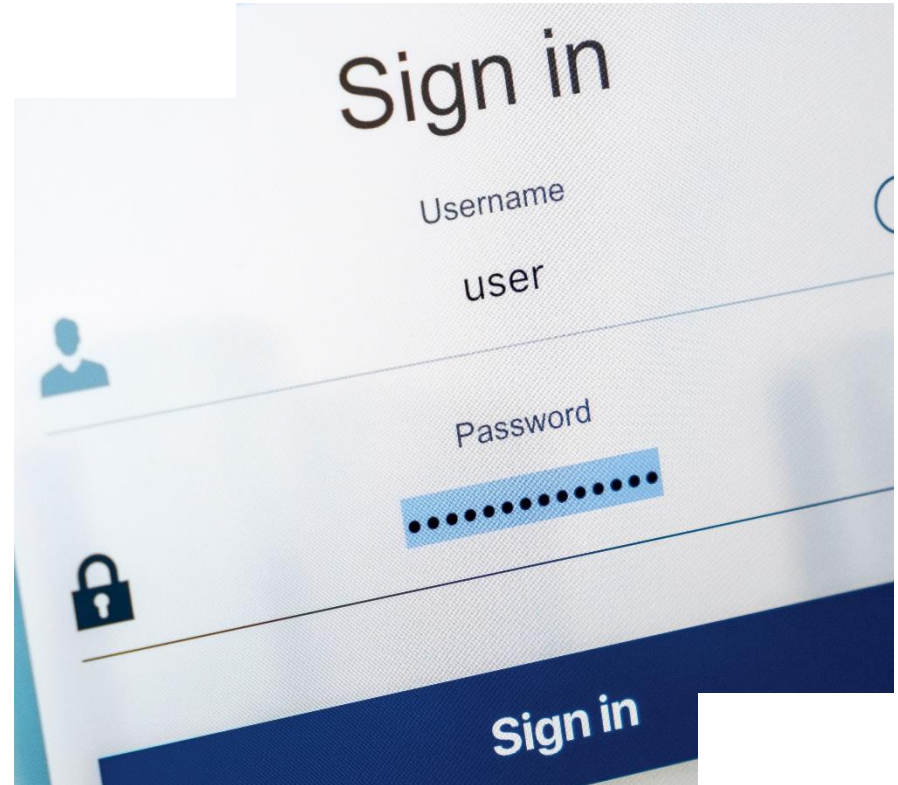
## Best practices

1. Consider adding outside counsel to **ALL** internal and external correspondence, including phone calls, e-mail and text messages
2. Consider directing all internal and external correspondence to outside counsel
3. Consider marking attorney correspondence with “attorney–client privilege/confidential”
4. Consider marking reports generated in anticipation of litigation with “work product” on each page

# Protecting Incident Response Under Privilege

## Best practices

5. You may want outside counsel to retain and direct the work of the cybersecurity consultants
6. You may want to exercise caution when sharing information about Incident Response with third parties
7. Consider limiting employees with access to privileged information



**Thank you!**

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