

FINra®

# Navigating Ransomware

Cyber & Analytics Unit Webinar

June 16, 2026

# AGENDA

- 01 | Welcome and Overview
- 02 | Ransomware Fundamentals
- 03 | Incident Response (Risks & Effective Practices)
- 04 | Key Takeaways
- 05 | Audience Questions
- 06 | Feedback & Resources

# FINRA Forward: Cyber Engagements

FINRA



Strengthen Cyber  
Readiness



Reinforce Internal  
Controls



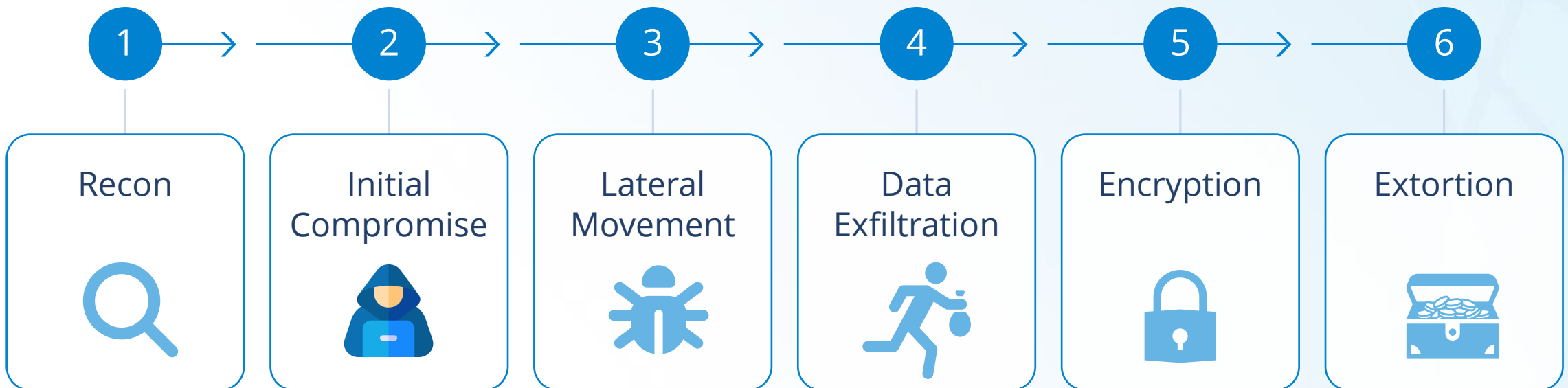
Safeguard  
Customer Data



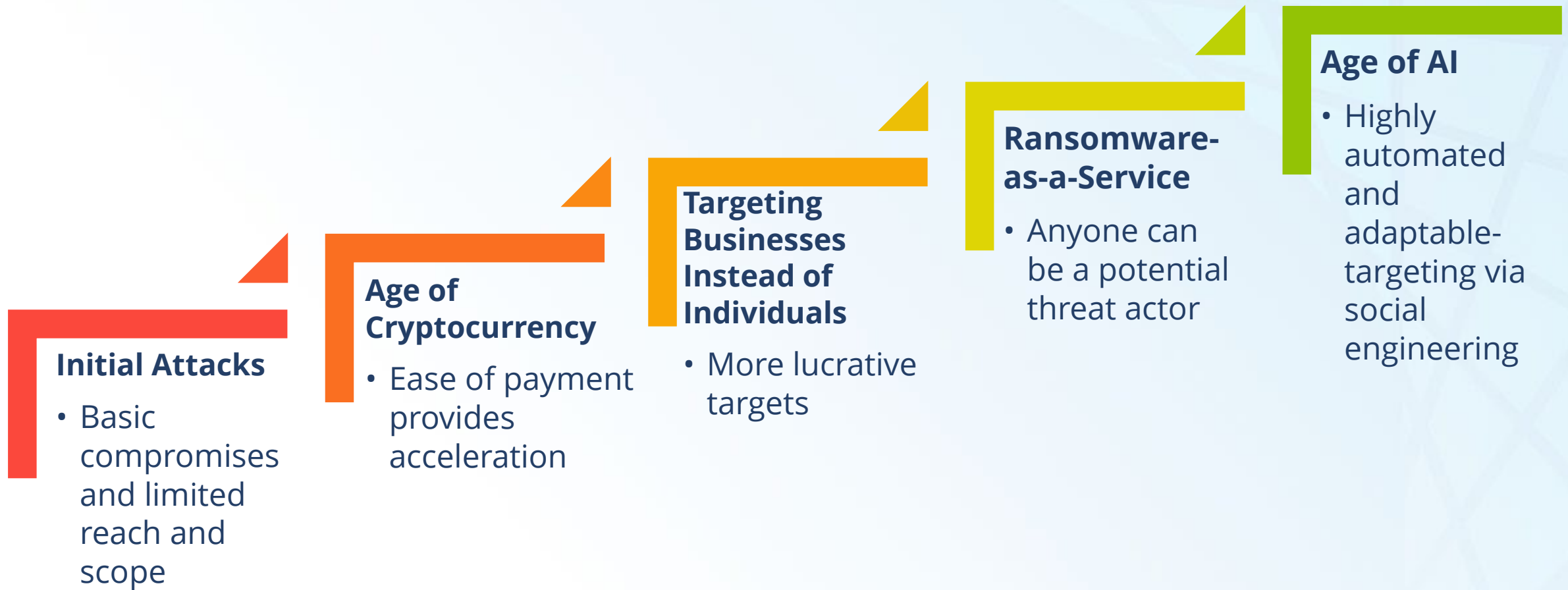
Maintain  
Resilience

# What is Ransomware?

Ransomware is malicious software (malware) that encrypts files, systems, or networks and demands payment to restore access.



# Ransomware Evolution



# How are Threat Actors Using Generative AI



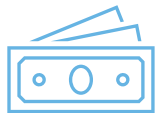
Phishing emails



Researching company organization models



Automating and accelerating attacks



Optimizing extortion efforts

# Ransomware Attack Vectors



## Social Engineering

Attackers trick users into taking actions that grant attacker access



## Remote Access

Compromised VPN/RDP credentials allow remote access to the network

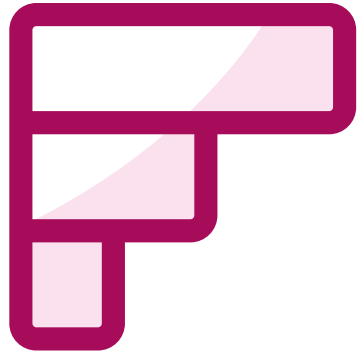


## Vulnerability Exploitation

Vulnerabilities in internet facing systems allow attackers to bypass authentication, run commands, extract credentials



**Defense in depth is key**



**Which of the following social engineering techniques are you aware of, or have you experienced?**

# Social Engineering Ransomware Attack Vectors

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Phishing



Smishing &  
Quishing



Vishing



Helpdesk  
Fraud



ClickFIX  
Fraud

1x

## SINGLE EXTORTION

- Files are locked and inaccessible
- Payment requested for the encryption key

 **Target: System Availability**

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2x

## DOUBLE EXTORTION

- Files are locked, sensitive data stolen
- Demand payment to prevent data leakage

 **Dual Threat: System Availability & Data Theft**

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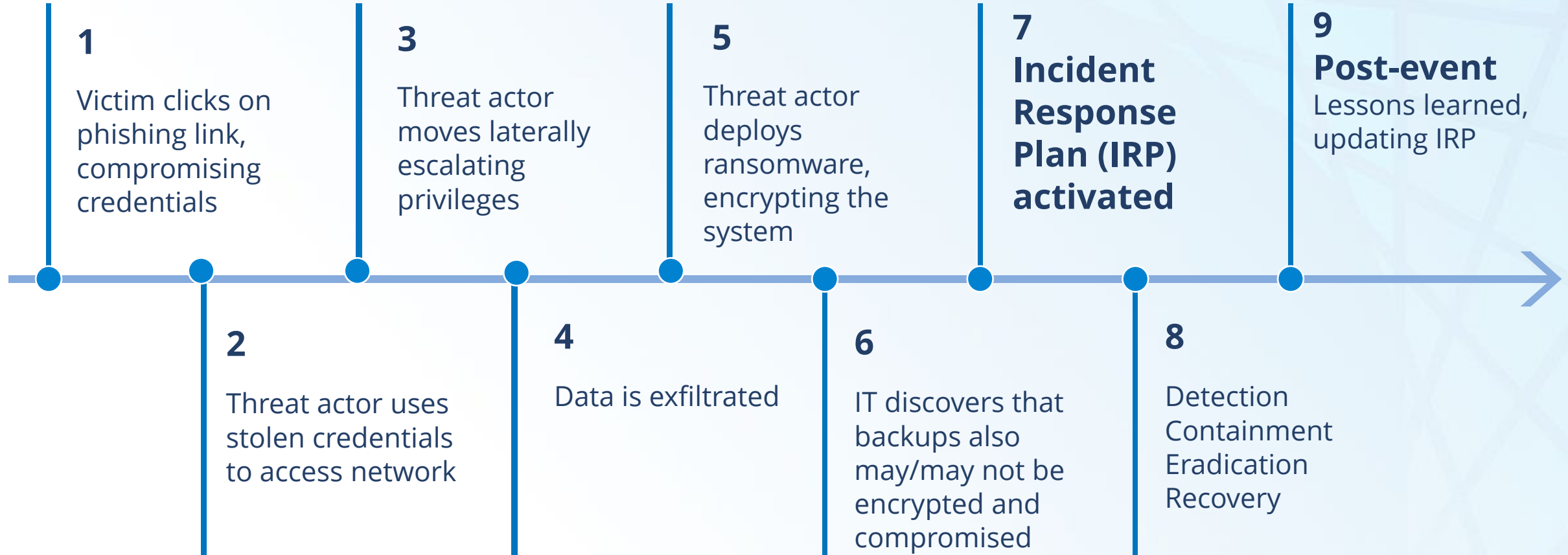
3x

## TRIPLE EXTORTION

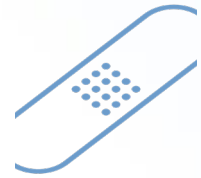
- Encryption, data leaks, DDoS attacks, notifying third parties

 **Triple Threat: System Availability Data Theft & Third Parties**

# Case Study: Ransomware Incident



# Effective Practices to Prevent Ransomware



1. Vulnerability patching



2. Multifactor authentication (MFA)



3. Security awareness training



4. Endpoint and managed detection and response (EDR & MDR)



5. Zero trust implementation



6. Immutable backups



7. Regular testing of Incident Response Plan



8. Key Partners

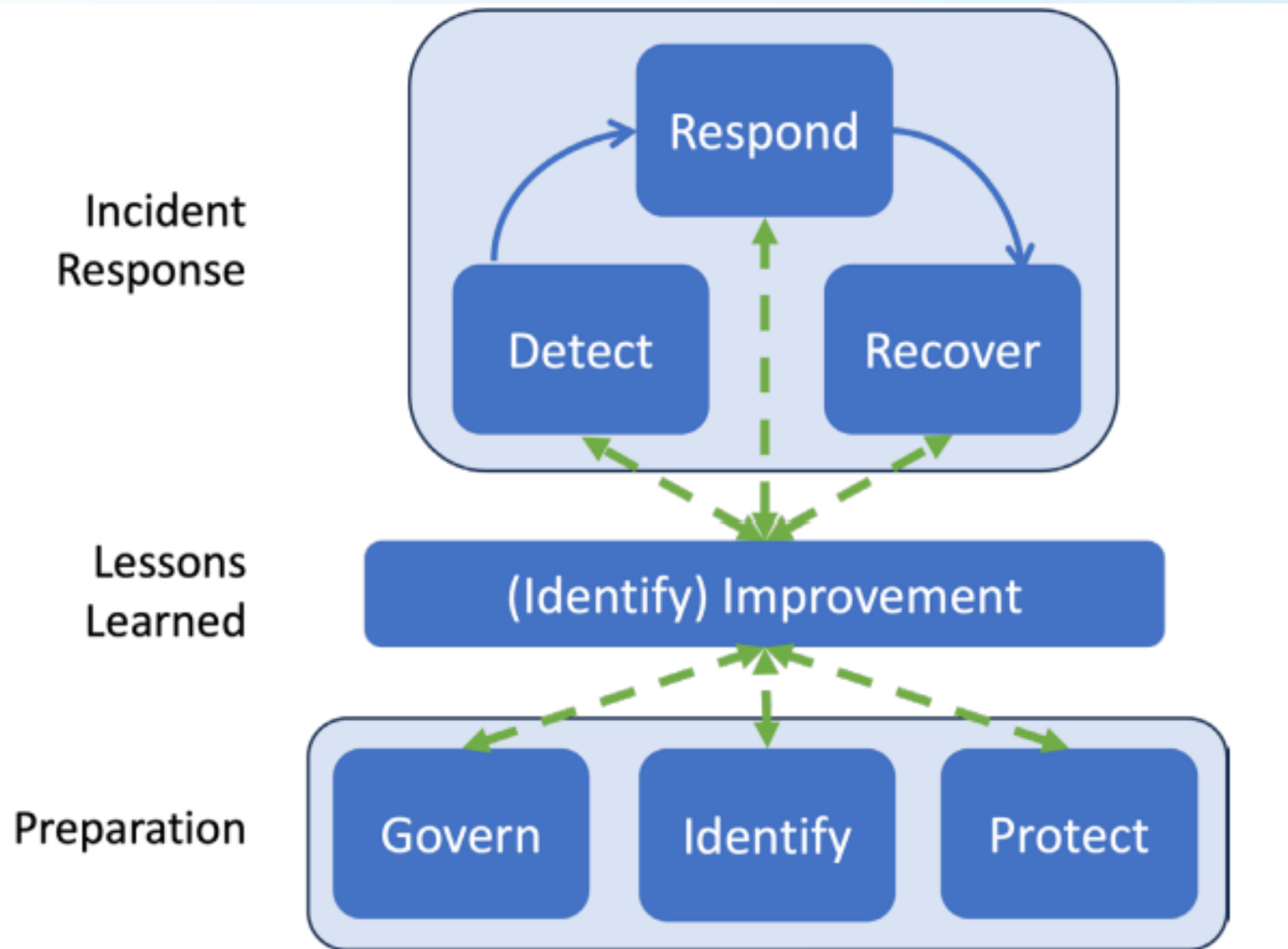
# FBI, Regulators and Partners

- The FBI may be able to provide:
  - Threat intelligence about the attacker
  - Decryption keys for certain ransomware variants
- Law enforcement may be able to seize the data stolen from your firm

- Potential recovery of ransom payments to threat actors
- Information you provide to law enforcement can help thwart threat actors, and lead to the prosecution of the criminals

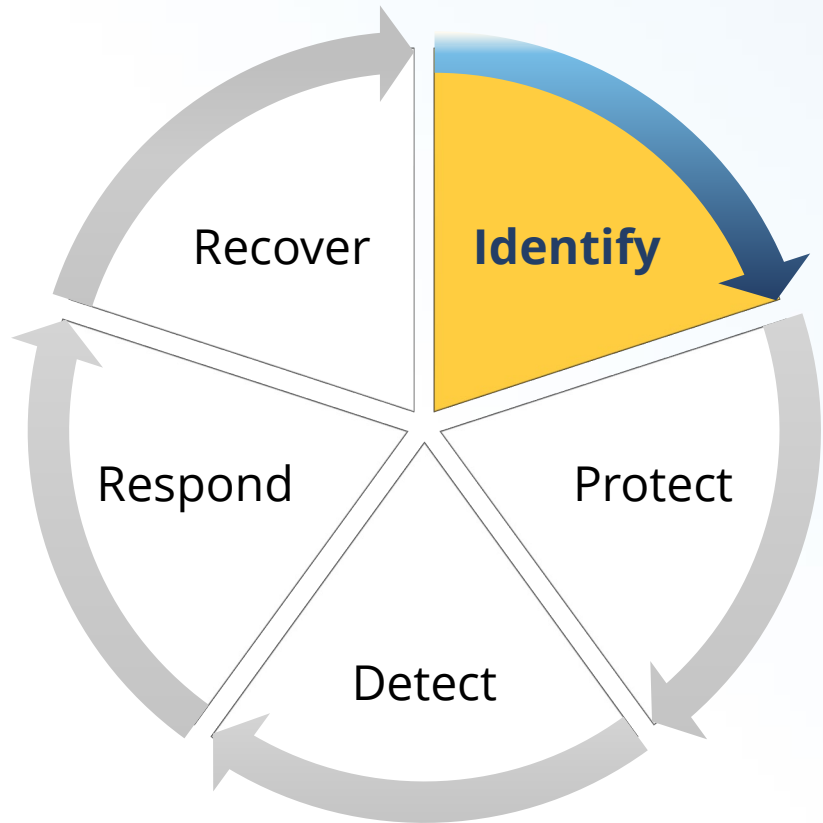
**Find your local FBI Field Office: <https://www.fbi.gov/contact-us/field-offices>  
Report ransomware incidents to FBI via [www.ic3.gov](http://www.ic3.gov)**

# NIST CSF 2.0 Incident Response Lifecycle



**Fig. 2. Incident response life cycle model based on CSF 2.0 Functions**

# Incident Response - Identify



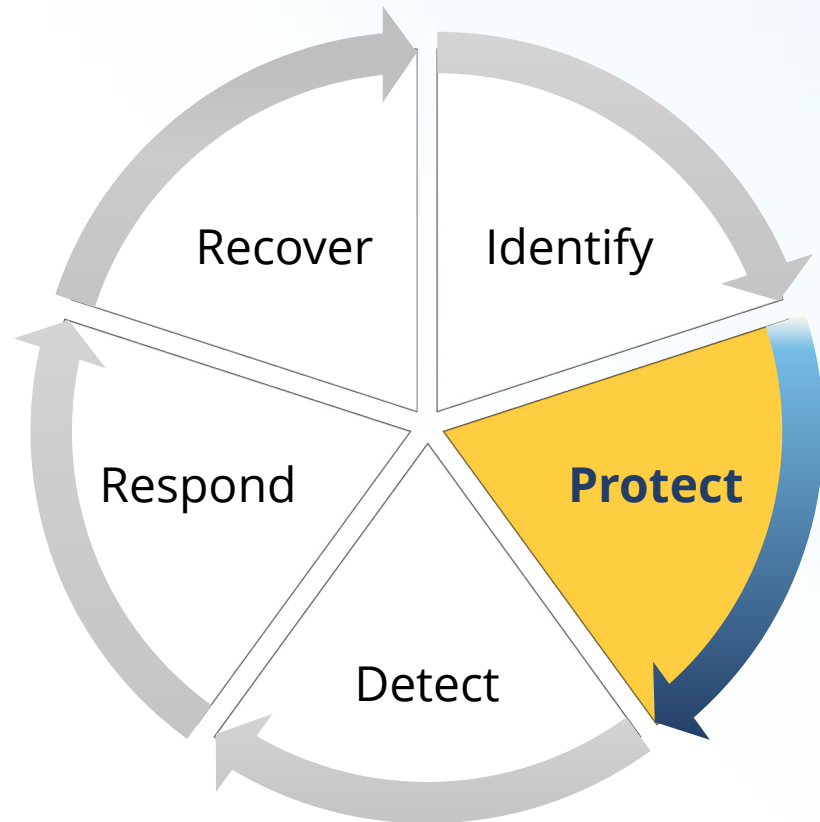
The time to prepare for ransomware is before it occurs: Identifying assets, connections, and processes saves critical time

- Maintain hardware and software inventories
- Document information flows
- Identify the external system connections
- Identify critical enterprise processes and assets
- Establish cybersecurity policies that spell out roles and responsibilities



**Is it useful to have documented incident response capabilities?**

# Incident Response - Protect



**Pre-defined isolation criteria help contain ransomware while minimizing disruption**

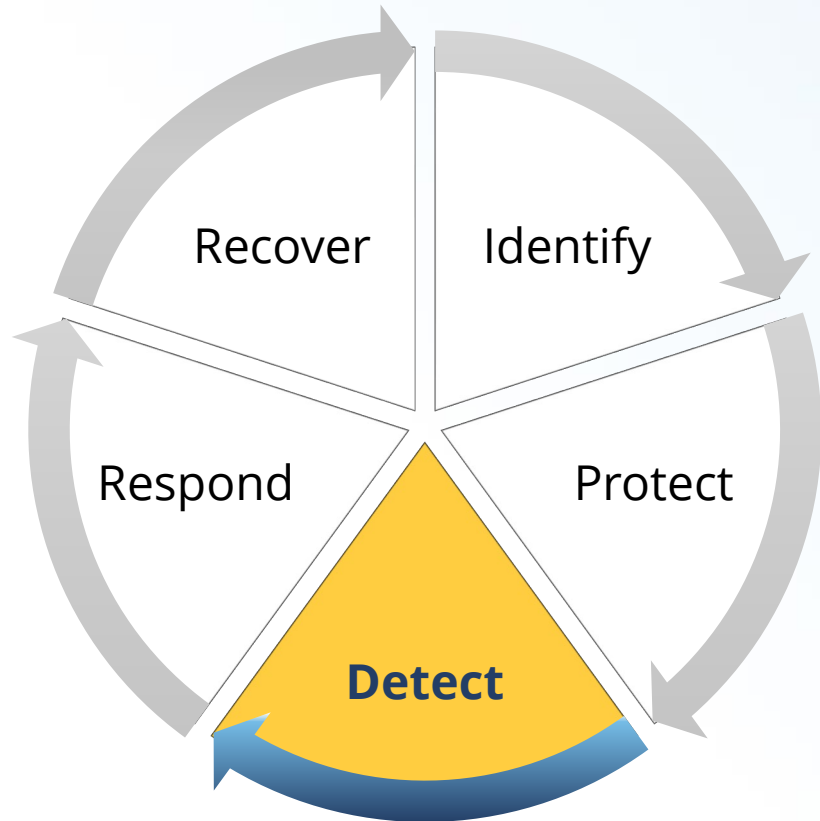
- **Manage access to assets and information**
- **Manage device vulnerabilities**
- **Educate and train workforce**
- **Secure all devices**
- **Protect sensitive data**
- **Conduct regular backups**

# Role of **Zero Trust** in Ransomware Defense



- ✓ **Device health verification**
- ✓ **Network segmentation**
- ✓ **Least privileged access**
- ✓ **Continuous identity checks**

# Incident Response - Detect



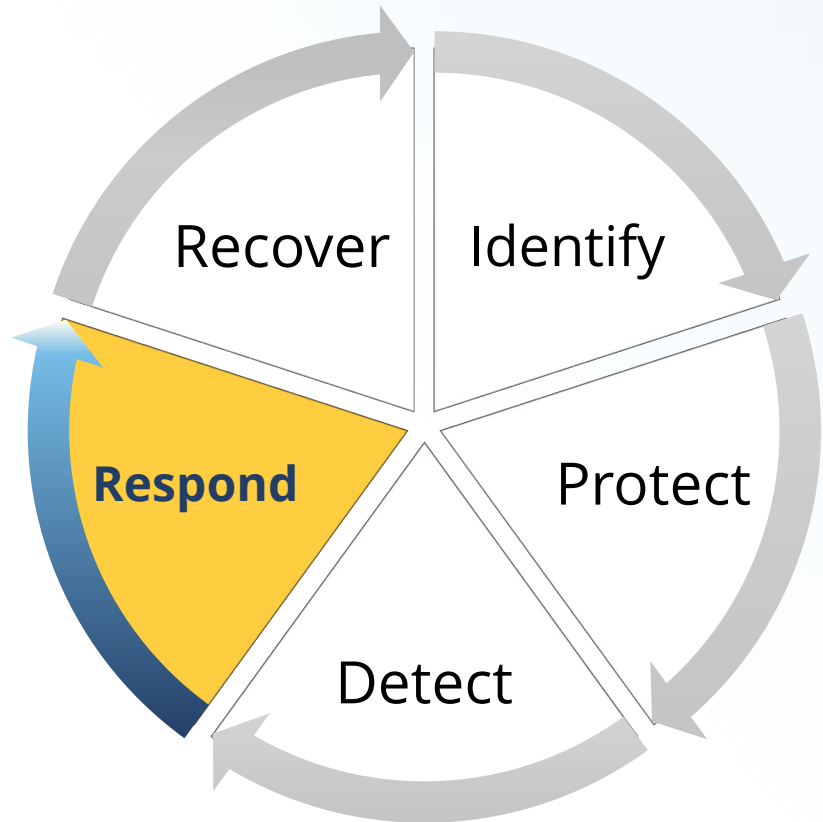
**Rapid incident assessment requires tested detection, trained staff, and mapped data flows**

- **Test and update detection processes**
- **Train staff**
- **Map expected data flows**
- **Assess and communicate incidents rapidly**



**Is it important to identify outside expertise you may need before experiencing an incident?**

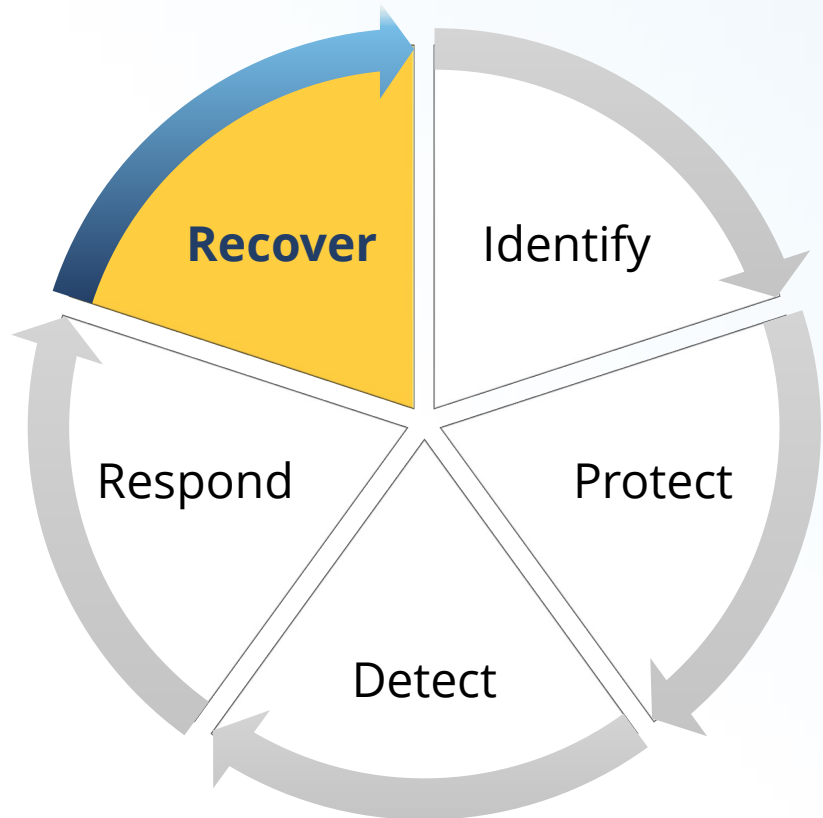
# Incident Response - Respond



**Pre-identified response vendors enable faster evidence collection and incident containment**

- **Develop response plans**
- **Coordinate with stakeholders**
- **Test response plans**
- **Update response plans**

# Incident Response - Recover



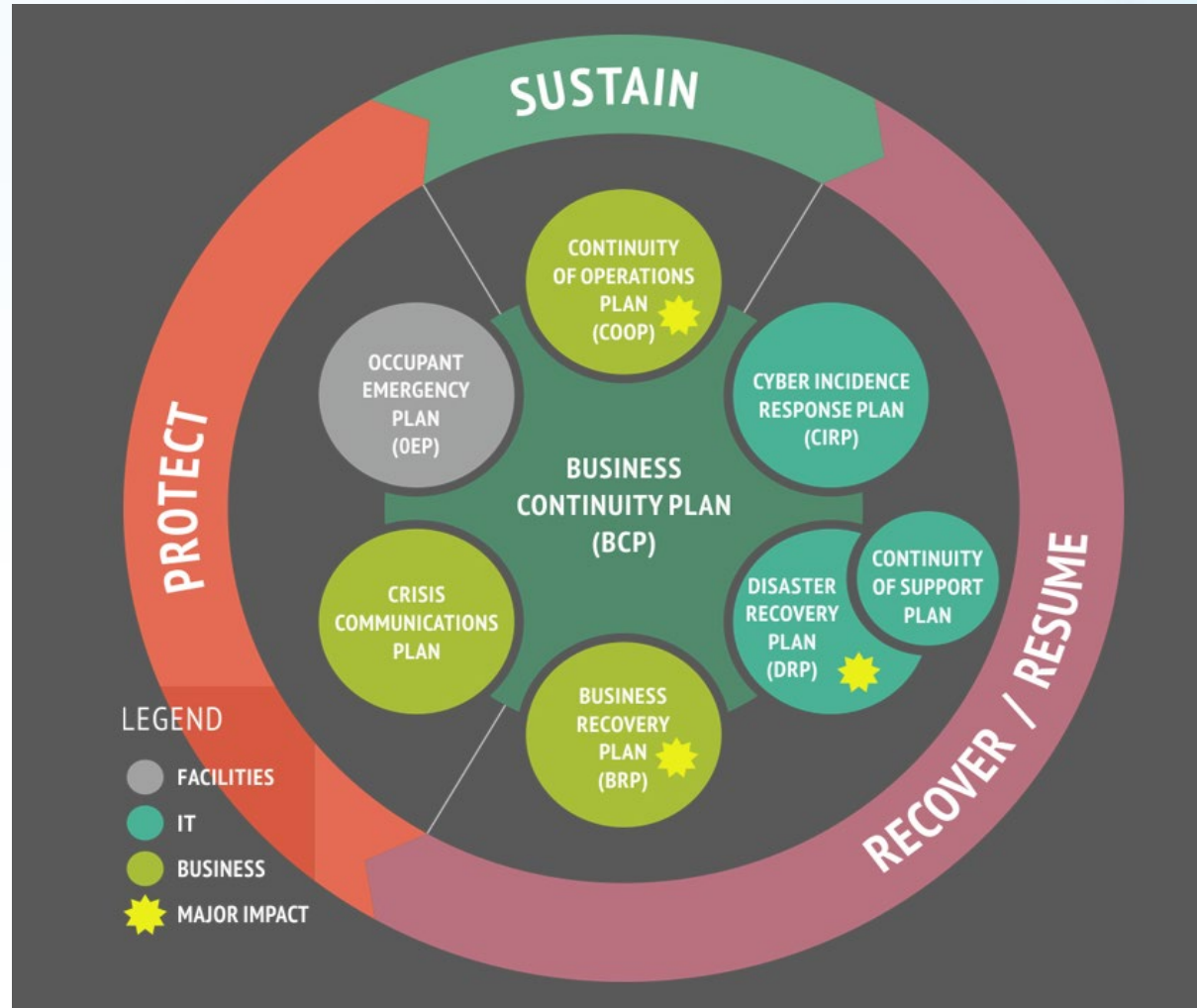
**Backup validation is performed in isolated test environments prior to production restoration**

- **Develop contingency plans**
- **Communicate with stakeholders**
- **Manage organizational reputation**
- **Test and update recovery plans**



**Should Incident Response and Business Continuity Plans be tested together?**

# The Business Perspective: How It All Works Together





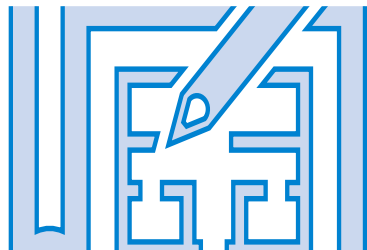
## Validate your Incident Response Program

- Verify and develop ransomware-specific procedures



## Establish relationships

- Contact your local FBI office for assistance








## Business continuity

- Test your BCP
- Operational resilience depends on readiness

# Coming Soon

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## Ransomware Decision Simulation June 30, 2026

-  Simulated scenarios
-  Incident response training
-  Improve problem solving
-  Enhance collaboration
-  Learn how to mitigate risks



Register at  
[FINRA.org/events](https://FINRA.org/events)

Survey QR Code



**THANK YOU**

If you have any follow up questions or comments,  
please contact the Cyber and Analytics Unit  
[CAU@finra.org](mailto:CAU@finra.org)



# Linked Resources

# Resources Available on FINRA.org

- [FINRA Cybersecurity](#)
- [FINRA Financial Intelligence Fusion Center \(FIFC\)](#)
- [FINRA Small Firm Checklist](#)
- [FINRA Firm Checklist for Compromised Accounts](#)
- [Non-FINRA Cybersecurity Resources](#)
- [FINRA Risk Monitoring Program](#)

# External Resources: Federal Government

- [Department of Homeland Security – Ready.gov Testing Exercises](#)
- [Cybersecurity and Infrastructure Security Agency \(CISA\)](#)
- [CISA Tabletop Exercise Packages](#)
- [Internet Crime Complaint Center \(IC3\)](#)
- [Local FBI Field Office](#)

# External Resources: NIST

- [NIST Cybersecurity Framework](#)
- [NIST SP 800-61r2 - Computer Security Incident Handling Guide](#)
- [NIST SP 800-30 - Guide for Conducting Risk Assessments](#)
- [NIST SP 800-84 - Guide to Test, Training, and Exercise Programs for IT Plans and Capabilities](#)

# External Resources: Other

- [Center for Internet Security Critical Security Controls \(CIS CSC\)](#)
- [SANS Security Policy & Form Templates](#)
- [Backdoors & Breaches, an Incident Response Card Game](#)
- [FinCEN Advisory - FIN-2016-A005](#)



# Regulatory Considerations

# FINRA Rules to Consider

- **FINRA [Rule 3110](#) – Supervision**
  - Each member shall establish and maintain a system to supervise the activities of each associated person that is reasonably designed to achieve compliance with applicable securities laws and regulations, and with applicable FINRA rules
- **FINRA [Rule 2010](#) – Standard of Commercial Honor and Principles of Trade**
  - A member, in the conduct of its business, shall observe high standards of commercial honor and just and equitable principles of trade
- **FINRA [Rule 4530](#) – Reporting Requirements**
  - Requires firms to report specified events
    - Quarterly statistical and summary information regarding written customer complaints
    - Copies of specified criminal and civil actions

# SEC Rules to Consider

- **SEC Reg S-P**
  - Requires registered broker-dealers, investment companies, and investment advisers to "adopt written policies and procedures that address administrative, technical, and physical safeguards for the protection of customer records and information"
- **SEC Reg S-ID**
  - The rule requires institutions to develop and implement a written identity theft prevention program designed to detect, prevent, and mitigate identity theft in connection with certain existing accounts or the opening of new accounts
- **SEC Reg SCI**
  - Reduce the occurrence of systems issues
  - Improve resiliency when systems problems do occur
  - Enhance the Commission's oversight and enforcement of securities market technology infrastructure