

Audit Interactive

A Higher Education Collaborative Experience

March 9-12, 2025 | Sheraton Hotel Downtown | Oklahoma City, OK





From Chaos to Control: Unraveling the Art of Incident Response

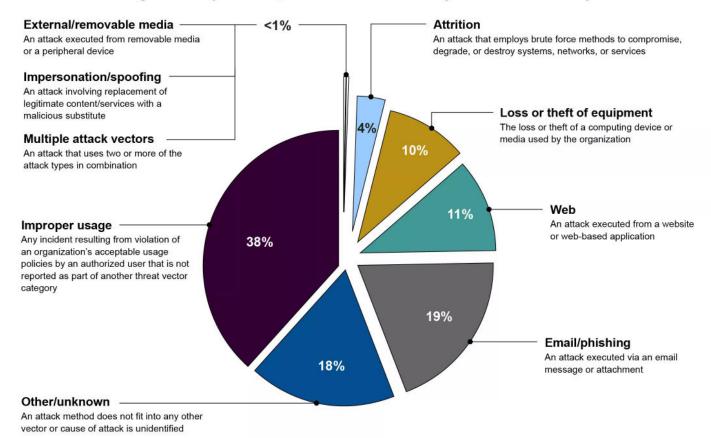
March 2025

Reema Parappilly,
Weaver
Partner, Governance, Risk & Compliance

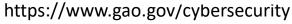




Federal agencies reported 32,211 information security incidents in fiscal year 2023



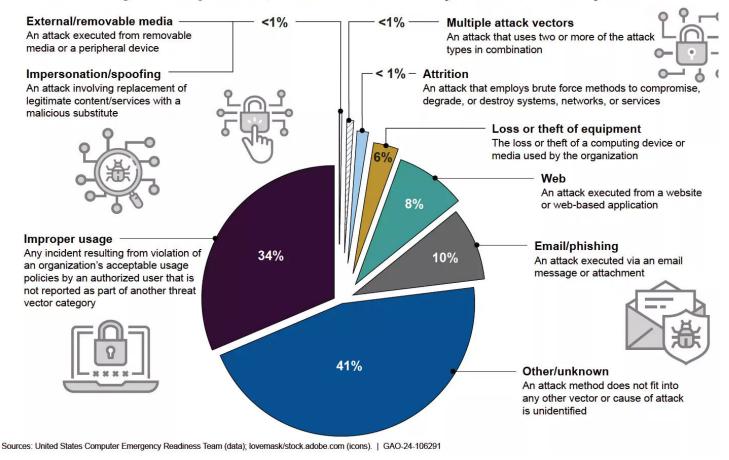
Source: United States Computer Emergency Readiness Team incident report data for fiscal year 2023.







Federal agencies reported 30,659 information security incidents in fiscal year 2022







ABOUT NCSC

CISP

Making IT Possible

IT START

Ransom

June 20, 2024

157-year-old L the school.

- Cyber Attac
- Affected In:
- Outcomes:
- Hindered
- All syste
- Reports

Already strugg activities and

While Lincoln

Lincoln Colleg unforeseen cy years in opera

How to Avoid

TechRadar

CrowdStrike outage is causing businesses to switch security vendors

This is how businesses are reacting to the Crowdstrike incident.

2 weeks ago

The Guardian

CrowdStrike apologizes for global IT outage in congressional testimony

A CrowdStrike senior executive apologized for causing a global software outage that ground the operations of hospitals, airports,...

2 weeks ago

Fortune

Why Delta was left reeling from the CrowdStrike outage more than rival airlines

The July 19 CrowdStrike power outage—which battered millions of Microsoft operating systems—resulted in the airline canceling 7,000 flights over...

1 month ago

CROWDS

ARN ABOUT ITS

lion

nware attack on

was

ade it look like he threatened to

osedly would happen on



monady morning, rep. 10.



A Higher Education Collaborative Experience

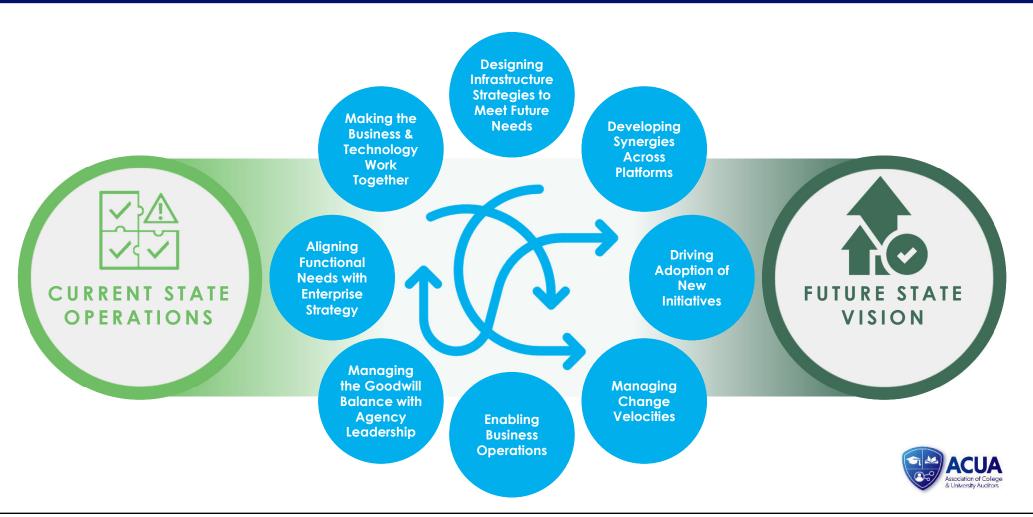
Audit Interactive

Market Challenges & Opportunities





Operational Challenges





Challenge

We've Got a Plan & We *Think* it Works

- Frameworks, Standards, Compliance Regulations
 - NIST-CSF, CIS-CSC
 - NIST 800-53, NIST 800-171, ISO 27001
 - PCI-DSS, DoD CMMC, NERC/FERC
- Industry/Trade Groups
- Insurance Providers
- Government Agency Guidance
 - DHS-Cyber Resiliency Review (CRR)
 - Local State Requirements
- Vendor/Supplier Specifications





Cybersecurity Event vs Incident



Event

A cybersecurity event is a change in the normal behavior of a given system, process, environment or workflow.

Examples of a cybersecurity event:

- An employee flags a suspicious email
- Someone downloads software (authorized or unauthorized) to a company device
- A security lapse occurs due to a server outage



Incident

An incident is a change in a system that negatively impacts the organization, municipality, or business.

Examples of an incident:

- An employee replies to a phishing email, divulging confidential information
- Equipment with stored sensitive data is stolen
- A password is compromised through a brute force attack on your system

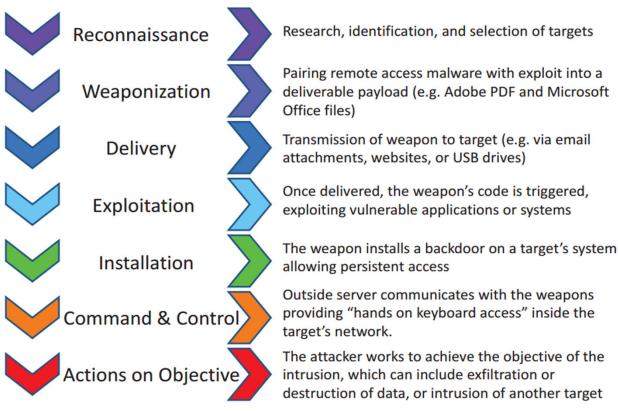






Lockheed Martin Cyber Kill Chain

Phases of the Intrusion Kill Chain

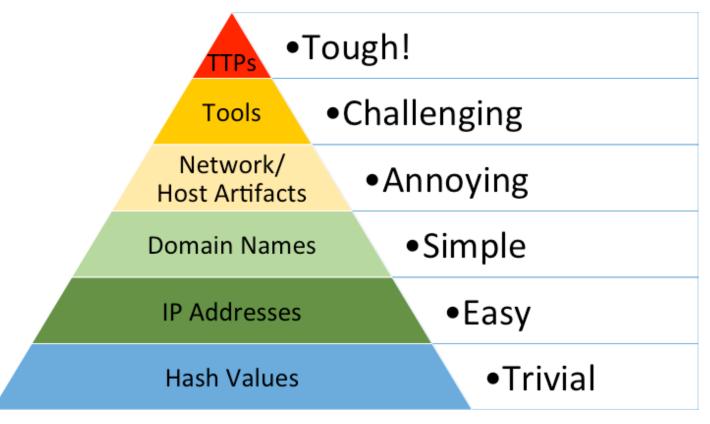




https://www.sans.org/blog/cyber-kill-chain-mitre-attack-purple-team/https://www.lockheedmartin.com/en-us/capabilities/cyber/cyber-kill-chain.html



Pyramid of Pain







MITRE ATT&CK Framework

Persistence	Privilege Escalation	Defense Evasion	Credential Access	Discovery	Lateral Movement	Execution	Collection	Exfiltration
51 items	27 items	49 items	18 items	17 items	17 items	25 items	13 items	9 items
	Access Token	Access Token Manipulation	Account Manipulation	Account Discovery	AppleScript	AppleScript	Audio Capture	Automated Exfiltratio
Accessibility Features	Manipulation	Binary Padding	Bash History	Application Window	Application Deployment	Command-Line Interface	Automated Collection	Data Compressed
AppCert DLLs	Accessibility Features	Bypass User Account Control	Brute Force	Discovery	Software	Dynamic Data Exchange	Browser Extensions	Data Encrypted
AppInit DLLs	AppCert DLLs	Clear Command History	Credential Dumping	File and Directory Discovery	Distributed Component Object Model	Execution through API	Clipboard Data	Data Transfer Size
Application Shimming	Applnit DLLs	Code Signing	Credentials in Files	Network Service	Exploitation of	Execution through Module	Data from Local	Limits
Authentication Package	Application Shimming	Component Firmware	Exploitation of	Scanning	Vulnerability	Load	System	Exfiltration Over Alternative Protocol
Pootkit	Bypass User Account Control	Component Object Model	Vulnerability	Network Share Discovery	Logon Scripts	Graphical User Interface	Data from Network Shared Drive	Exfiltration Over
Service Potentine	DLL Search Order	Hijacking	Forced Authentication	Peripheral Device	Pass the Hash	InstallUtil	Data from Removable	Command and Contro
	Hijacking	Deobfuscate/Decode Files or	Hooking	Discovery	Pass the Ticket	Launchetl	Media Media	Channel
Association	Dylib Hijacking	Information	Input Capture	Permission Groups Discovery	Remote Desktop	Local Job Scheduling	Data Staged	Exfiltration Over Othe Network Medium
Component Firmware	Exploitation of	Disabling Security Tools	Input Prompt	Process Discovery	Protocol	LSASS Driver	Email Collection	Exfiltration Over
Component Object Model	Vulnerability	DLL Search Order Hijacking	Keychain	5.70 200 00 00 00 00 00 00 00 00 00 00 00 0	Remote File Copy	Mshta	Input Capture	Physical Medium
	Extra Window Memory	DLL Side-Loading	LLMNR/NBT-NS Poisoning	Query Registry	Remote Services	PowerShell	Man in the Browser	Scheduled Transfer
Sieute Account	Injection	Exploitation of Vulnerability	Network Sniffing	Remote System Discovery	Replication Through	Regsvcs/Regasm	Screen Capture	
OLL Search Order Hijacking	File System Permissions Weakness	Extra Window Memory Injection	Password Filter DLL	Security Software	Removable Media	Regsvr32	Video Capture	
Dylib Hijacking	Hooking	File Deletion	Private Kevs	Discovery	Shared Webroot	Rundll32	video Capture	
xternal Remote Services	Image File Execution	File System Logical Offsets	Replication Through	System information	SSH Hijacking	Scheduled Task		
ile System Permissions	Options Injection	Gatekeeper Bypass	Removable Media	Discovery	Taint Shared Content	Scripting		
	Launch Daemon	Hidden Files and Directories	Securityd Memory	System Network Configuration Discovery	Third-party Software	Service Execution		
	New Service	Hidden Users	Two-Factor Authentication	System Network	Windows Admin Shares	Source		
Hooking	Path Interception	Hidden Window	Interception	Connections Discovery	Windows Remote			
Hypervisor	Plist Modification	HISTCONTROL		System Owner/User	Management	Space after Filename		
mage File Execution	Port Monitors	Image File Execution Options		Discovery		Third-party Software -		

https://attack.mitre.org/



Polling Question #1

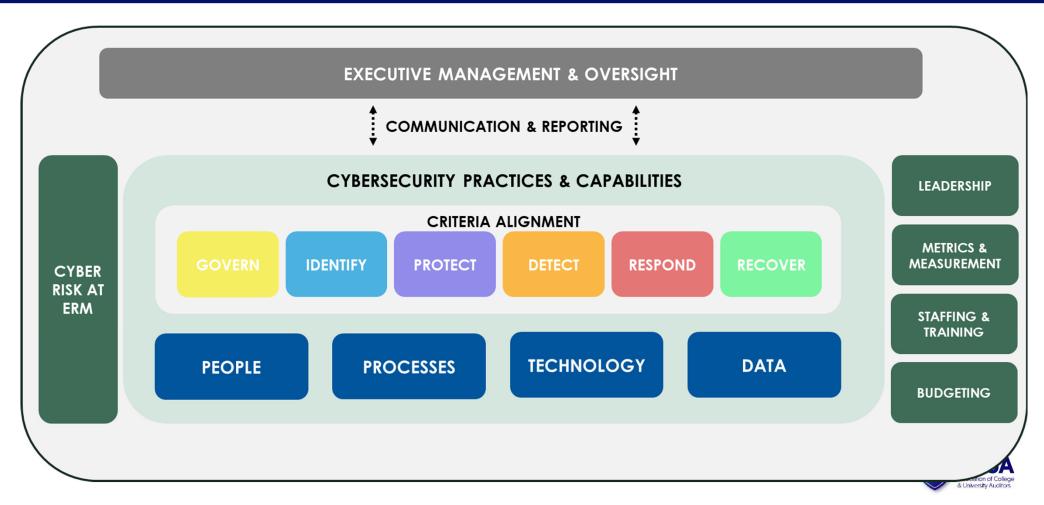
Does your organization have a cybersecurity incident response plan?

- A. Yes And it would work for cyber incidents from the news
- B. Yes But it wouldn't work for cyber incidents from the news
- C. No But we'll have one shortly after this talk
- D. Unsure But I'm looking through the files now
- E. I'm legally bound from talking about this based on a prior issue that may or may not have happened





Cyber Program Perspective





Common Issues Observed

- Roles & Responsibilities Not Granularly Defined
 - "We think we know who we need but we don't write it down"
 - "It's always going to be XYZ who handles that"
 - "Our IT/Security function is outsourced to ABC vendor who handles IR"
- Lack of Logs = Lack of Proof
 - Ironically the people that say "we're not spending any more on storage?" are also the people saying "why can't we prove what happened?"
 - API usage logs?
- "But we have Cyber Insurance..."
 - i.e. you probably have missing incident handling procedures
- "Immutable? I Don't Know But Our Backups are Encrypted"
 - Ransomware as a Service Better 'Customer' Service but also Payment even more so Doesn't Equal Recovery Results
- Third/Fourth Party Considerations
 - "That's not our system though..."
 - "We have a contract / SLA in place"
 - Think MOVEit





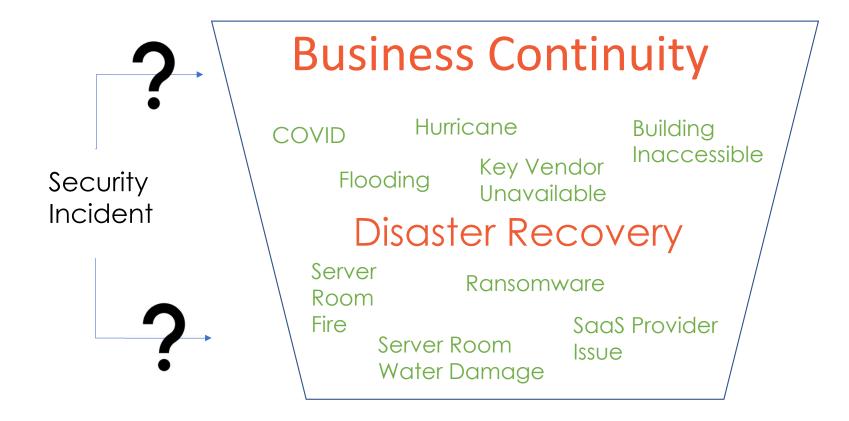
Point of Reflections and Quick Wins

- Usable Contact Info Readily Available
 - For Primary and Backup Employees
 - Critical Vendors/Service Providers
 - Legal Counsel
 - Insurance
- Dial the Numbers & Write the Text
 - Had a phone in the Ops Center that couldn't dial international numbers
- Meet with GC/Legal Today
 - What can you authorize, say, or do?
- Note Actions / Outcomes from Current IR TTX Exercises
 - You did the exercise, but what did you learn / improve





Business Continuity and Disaster Recovery



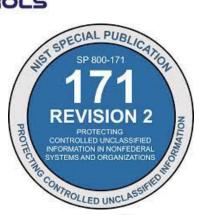




What Do The Frameworks Say?

- NIST 800-53r5 Security and Privacy Controls for Information Systems and Organizations
- CIS CSC Center for Internet Security Critical Security Controls
- NIST CSF Cybersecurity Framework v2.0
- NIST 800-171 Protecting Controlled Unclassified Information in Nonfederal Systems and Organizations
- NIST 800-61r2 Computer Security Incident Handling Guide





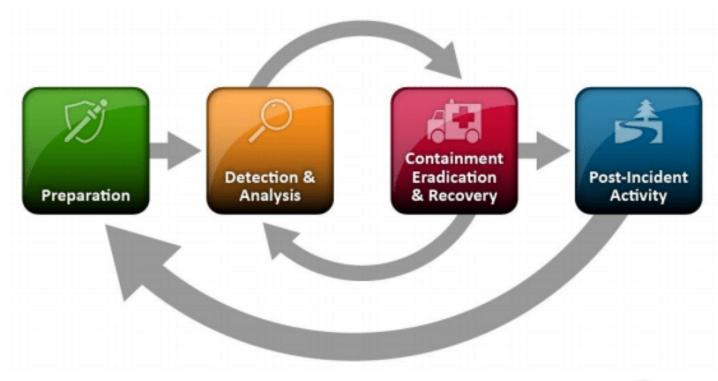






Largest Influence

- NIST 800-61r2
- 4 Major Phases
 - Preparation
 - Detection & Analysis
 - Containment Eradication & Recovery
 - Post-Incident Activity







NIST 800-61r2 – Computer Security Incident Handling Guide

- Incident Handling Checklist Included
- Value in the Appendix
 - » Appendix-A
 - 11 Scenarios
 - » Appendix-B
 - Types of Info to Collect
- Best Definitions
- And... It's Free

National Institute of Standards and Technology

Special Publication 800-61 Revision 2

Computer Security Incident Handling Guide

Recommendations of the National Institute of Standards and Technology

Paul Cichonski Tom Millar Tim Grance Karen Scarfone

http://dx.doi.org/10.6028/NIST.SP.800-61r2

	Action	Completed
	Detection and Analysis	
1.	Determine whether an incident has occurred	
1.1	Analyze the precursors and indicators	
1.2	Look for correlating information	
1.3	Perform research (e.g., search engines, knowledge base)	
1.4	As soon as the handler believes an incident has occurred, begin documenting the investigation and gathering evidence	
2.	Prioritize handling the incident based on the relevant factors (functional impact, information impact, recoverability effort, etc.)	
3.	Report the incident to the appropriate internal personnel and external organizations	
	Containment, Eradication, and Recovery	
4.	Acquire, preserve, secure, and document evidence	
5.	Contain the incident	
6.	Eradicate the incident	
6.1	Identify and mitigate all vulnerabilities that were exploited	
6.2	Remove malware, inappropriate materials, and other components	
6.3	If more affected hosts are discovered (e.g., new malware infections), repeat the Detection and Analysis steps (1.1, 1.2) to identify all other affected hosts, then contain (5) and eradicate (6) the incident for them	
7.	Recover from the incident	
7.1	Return affected systems to an operationally ready state	
7.2	Confirm that the affected systems are functioning normally	
7.3	If necessary, implement additional monitoring to look for future related activity	
	Post-Incident Activity	•
8.	Create a follow-up report	
9.	Hold a lessons learned meeting (mandatory for major incidents, optional otherwise)	





NIST 800-53r5

- IR-1: Policy and Procedures
- IR-2: Incident Response Training
- IR-3: Incident Response Testing
- IR-4: Incident Handling
- IR-5: Incident Monitoring
- IR-6: Incident Reporting
- IR-7: Incident Response Assistance
- IR-8: Incident Response Plan
- IR-9: Information Spillage Response

- Incident handling capability for incidents that is consistent with the IRP
 - includes preparation, detection and analysis, containment, eradication, and recovery
- Coordinate incident handling activities with contingency planning activities
- Incorporate lessons learned from
- Ensure the rigor, intensity, scope, and results of incident handling activities are comparable and predictable across the organization

IR-4(1): Automated Incident Handling Processes

IR-4(2): Dynamic Reconfiguration

IR-4(3): Continuity of Operations

IR-4(4): Information Correlation

IR-4(5): Automatic Disabling of System

IR-4(6): Insider Threats

IR-4(7): Insider Threats – Intra-organization Coordination

IR-4(8): Correlation with External Organizations

IR-4(9): Dynamic Response Capability

IR-4(10): Supply Chain Coordination

IR-4(11): Integrated Incident Response Team

IR-4(12): Malicious Code and Forensic Analysis

IR-4(13): Behavior Analysis

IR-4(14): Security Operations Center

IR-4(15): Public Relations and Reputation Repair



NIST CSF 2.0

- RS.MA: Incident Management
 - RS.MA-01: The incident response plan is executed in coordination with relevant third parties once an incident is declared
 - RS.MA-02: Incident reports are triaged and validated
 - RS.MA-03: Incidents are categorized and prioritized
 - RS.MA-04: Incidents are escalated or elevated as needed
 - RS.MA-05: The criteria for initiating incident recovery are applied
- RS.AN: Incident Analysis
 - RS.AN-03: Analysis is performed to establish what has taken place during an incident and the root cause of the incident
 - RS.AN-06: Actions performed during an investigation are recorded, and the records' integrity and provenance are preserved
 - · RS.AN-07: Incident data and metadata are collected, and their integrity and provenance are preserved
 - RS.AN-08: An incident's magnitude is estimated and validated
- RS.CO: Incident Response Reporting And Communication
 - RS.CO-02: Internal and external stakeholders are notified of incidents
 - RS.CO-03: Information is shared with designated internal and external stakeholders
- RS.MI: Incident Mitigation
 - RS.MI-01: Incidents are contained
 - RS.MI-02: Incidents are eradicated



National Institute of Standards and Technology (NIST) released the Cybersecurity Framework (CSF) 2.0 on February 26, 2024.





- 17.1: Designate Personnel to Manage Incident Handling
- 17.2: Establish and Maintain Contact Information for Reporting Security Incidents
- 17.3: Establish and Maintain an Enterprise Process for Reporting Incidents
- 17.4: Establish and Maintain an Incident Response Process
- 17.5: Assign Key Roles and Responsibilities
- 17.6: Define Mechanisms for Communicating During Incident Response
- 17.7: Conduct Routine Incident Response Exercises
- 17.8: Conduct Post-Incident Reviews
- 17.9: Establish and Maintain Security Incident Thresholds







NIST 800-171r2

- 3.6.1: Establish an operational incident-handling capability for organizational systems that includes preparation, detection, analysis, containment, recovery, and user response activities
- 3.6.2: Track, document, and report incidents to designated officials and/or authorities both internal and external to the organization
- 3.6.3: Test the organizational incident response capability







Cyber Incident Reporting for Critical Infrastructure Act of 2022 (CIRCIA)

- President Biden signed into law the Cyber Incident Reporting for Critical Infrastructure Act of 2022 (CIRCIA) in March 2022
- Requiring the Cybersecurity and Infrastructure Security Agency (CISA) to develop and implement regulations requiring Covered Entities to report covered cyber incidents and ransomware payments to CISA.
- By requiring Covered Entities to report Covered Cyber Incidents and Ransom Payments to CISA, CIRCIA will
 - >> Allow CISA to rapidly deploy resources and render assistance to victims suffering attacks
 - >> Analyze incoming reporting across sectors to spot trends and
 - >> Share that information with network defenders so that they may take actions as they deem necessary to present themselves from becoming victims of similar incidents.





Notice of Proposed Rulemaking (NPRM)

- There is a 60-day public comment period beginning April 4, 2024 and ended June 3, 2024
- You can read the NPRM in the <u>Federal Register</u> (www.federalregister.gov)
- You can review comments NPRM on the <u>Federal eRulemaking</u> <u>Portal</u> (www.regulations.gov)
- The final rule is expected in 2025 and would likely go into effect in 2026





Security Incident Reporting

Covered Incident:

- "Substantial Loss of Confidentiality, Integrity, or Availability"
- "Serious Impact on Safety and Resiliency of Operational Systems and Processes"
- "Disruption of Ability to Engage in Business or Industrial Operations"
- "Unauthorized Access Facilitated Through or Caused by a: (1) Compromise of a [Cloud Service Provider], Managed Service Provider, or Other Third-Party Data Hosting Provider, or (2) Supply Chain Compromise"

Reporting & Timeline

- No later than 72 hours after Covered Entity believes that the covered cyber incident has occurred
- Reports a Ransom Payment no later than 24 hours after the payment
- Supplemental Report if substantial new or different information is available promptly

Data and Records Preservation

Maintained for two years following the last submitted report





Cyber Audit Universe

Year 1

- Foundational
 - CybersecurityProgram
 - Risk Assessment
 - Plan / Strategy Roadmap
 - Policy Review
- Core
 - Asset Management Inventory
 - Vulnerability Management
 - Vendor Management
 - IAM
 - Account Management
 - Multi-Factor
 Authentication

Year 2

- Configuration Management
 - Patch management
- Logging and Monitoring
 - Log sources
 - Detection capabilities
 - Existing Alerts
 - Investigation / Triage
- Backup & Recovery
 - Business Continuity
 Plan / Disaster
 Recovery
- Ransomware
- Incident Response
- App/Service Security
 - Development (SDLC/DevOps)
 - API Security
 - Code Repository
 Management
 - Threat modeling

Year 3

- Cyber Insurance
- Board Communication
- Third and Fourth Party Risk Management
- Mobile Device Management
- Mergers and Acquisitions
- Physical Security

For Consideration

- Leadership
 - Staffing & Resources
 - Skills/Capabilities
 - IT/Infosec Training
- Software Development Lifecycle
- Secure Network Design/Architecture
- Endpoint Detection and Response
 - Email Security
- Security Awareness
 Training
 - Phishing exercises
- Penetration Testing

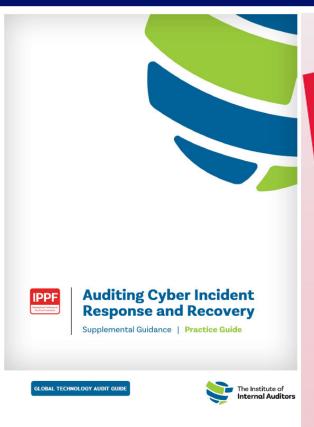


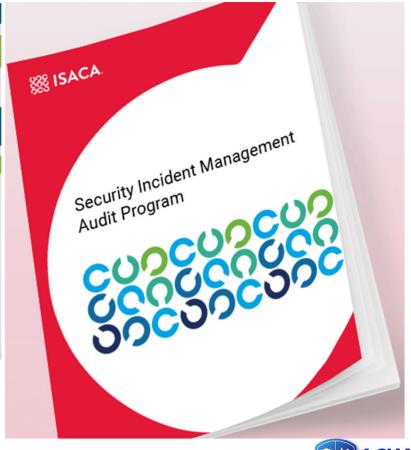
NOTE: These are considerations only and the decision and ownership is dependent on the environment and risk management.



Resources

- IIA GTAG
 - Auditing Cyber Incident Response & Recovery
- ISACA
 - Security Incident Management Audit Program









- NIST CSF (Cybersecurity Framework) Integration
 - https://csrc.nist.gov/publications /detail/nistir/8374/draft
- Associated Audit Topics
 - Incident Response
 - Detection & Monitoring
 - Recovery (BCP/DR)
 - Threat/Risk Asmt.



Cybersecurity Framework Profile for Ransomware Risk Management

Date Published: September 2021
Comments Due: October 8, 2021
Email Comments to: ransomware@nist.gov

Author(s)

William Barker (Dakota Consulting), Karen Scarfone (Scarfone Cybersecurity), William Fisher (NIST), Murugiah Souppaya (NIST)

Announcement

This revised draft addresses the public comments provided for the preliminary draft released in June 2021.

Ransomware is a type of malware that encrypts an organization's data and demands payment as a condition of restoring access to that data. In some instances, ransomware may also steal an organization's information and demand additional payment in return for not disclosing the information to authorities, competitors, or the public. Ransomware attacks target organizations' data or critical infrastructure, disrupting or halting operations.

This report defines a Ransomware Profile, which identifies security objectives from the NIST Cybersecurity Framework that support preventing, responding to, and recovering from ransomware events. The profile can be used as a guide to managing the risk of ransomware events. That includes helping gauge an organization's level of readiness to mitigate ransomware threats and to react to the potential impact of events.



<u>malware</u>

Applications

cybersecurity framework





Polling Question #2

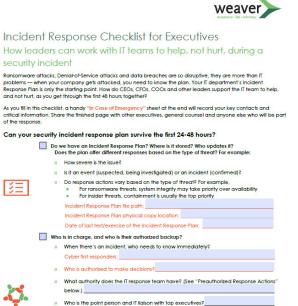
Do you test/validate your incident response plan at least annually with responders and executives?

- ➤A) Yes, at least annually
- ➤ B) Yes, but greater than a year ago
- ➤C) No, but it is on the plan now!
- ➤D) No, we're all good
- ➤ E) Unsure





Incident Response Checklist for Non-IT Executives



Who else is a key decision-maker for anything beyond the pre-agreed response authority?

» Who is responsible for ensuring events and actions are documented?

	Assurance - Tax - Advisory
	Do we have cyber insurance?
	Who is authorized to initiate a claim with the insurance provider, and under what circumstances? (This decision requires an understanding of projected costs, claim limits, documentation requirements and impact on future premiums.)
V	Are there insurance requirements that govern who you can hire as a response service provide
	and if so, who?
	Cyber insurance carrier:
	Insurance contact:
	Does the Incident Response team have well-documented pre-authorized response actions? What is the incident Response team authorized to do without seeking executive permission?
	Can they take a system or application offline?
مشو	That requires understanding the impacts and potential workarounds:
z=	 What if it is a revenue-generating system? What if it is the accounting system, payroll or time clock?
<u>~</u>	What if it affects critical operations for a customer?
	Can they isolate a network segment (site, building, floor or department)?
	Can they disable user(s) access?
	Can they kick customers/users out of a system?
	What can the Incident Response team be working on while waiting for a forensic respons
	specialist? (Does the Incident Response Plan list basic triage steps?)
	Do we have a plan for documenting the system's state of operations and managing proper
	chain of custody for evidence?
	Does our plan specify what must be documented and how?
	In the heat of an incident, documenting actions can seem unimportant, but it's critical to
	record who did what and when. Putting a timeline together afterwards is extremely difficult. Good documentation can prove that IT responders acted promptly, and it helps
Ã)	recovery professionals as they come into or exit the response process.
C	Has the plan been updated to account for service providers?
	Cloud Service Providers offer services at scale but that also means your response must
	scale as well. Do you have authorization to capture all necessary artifacts?
	Who is assigned to make sure actions and a timeline are recorded?

Incident Response Checklist (page 2)

weaver



Fill this	Case of Cyber Emergency: out and share with executives, general counsel, public information/ ntacts and others who might need to assist in a cyber response:
Our Incident Response Plan	n is located here:
File path:	
Physical copies:	
Date of last Incident Respo	nse Plan exercise/test:
Our cyber first responders	are:
Our response authorized d	ecision-makers are:
Our cyber insurance carrie	r is:
Contact name and	phone:
Our incident communication	on lead is:
Other things to know:	

To learn more about how Weaver can help you improve or manage cybersecurity, visit https://weaver.com/services/cybersecurity.

@COPYRIGHT 2022, WEAVER AND TIDWELL, LLF | FOR MORE INFORMATION, VISIT WEAVER.COM



security incident



A Higher Education Colloborative Experience

Audit Interactive

Cyber Placemat

	Organization Overview:
	Name:
Program &	☐ Mission:
Control	Goals:
Frameworks	□ Purpose:
	□ Strategy/Vision:
☐ NIST 800-53	□ Vehices
☐ CIS CSC	□ Values:
■ NIST CSF	
☐ ISO 27001	Purpose of the System:
☐ CSA CCM	Section 19 Committee Commi
	A
Campliance	
Compliance	
Requirements	
□ 800-171	Objectives & Factures
☐ CMMC	Objectives & Features:
☐ PCI-DSS	
☐ HIPAA	
□ NERC / FERC	
☐ FFIEC	Commence was seen
	Critical Roles & Responsibilities:
☐ FISMA	
☐ FedRAMP	<u> </u>
Additional	
Guidance	Stakeholders:
☐ DHS CPG	External
☐ DHS CRR	Citizens/Customers:
☐ MITRE	Regulators:
	☐ Legal Counsel: ☐ Consultants:
ATT&CK	Service Providers:
☐ MITRE	Internal
D3FEND	☐ Governance Board:
☐ MITRE	☐ Executive Leadership:
ENGAGE	☐ Management Team:
CHOMOL	☐ Technical Specialists: ☐ Information Owner:
	System Owner:
	System Security Officer:

o	pes of data Handled: Employee PII			s & Connected ources
	□Stored □Processed □Transmitted		The state of the s	Cloud/Share
	Users/Citizen/Constituent/Student/Custom			□laaS □F
	er PII			□On-Pren
	□Stored □Processed □Transmitted	Г	Applic	ation 1:
	Sensitive / Classified Data			Component In
	□Stored □Processed □Transmitted			Responsible Pe
	Financial Data			ation 2:
	□Stored □Processed □Transmitted			Component Inv
	Payment/Credit Card Data			Responsible Pe
	□Stored □Processed □Transmitted	8.0		ation 3:
	Health/Medical Data			Component In
	□Stored □Processed □Transmitted			Responsible Pe
	Legal/CJIS Data			e Locations not
	□Stored □Processed □Transmitted			Cloud Storage:
	Compliance/Regulatory Data			Database:
	□Stored □Processed □Transmitted			Network/Filesh
	GIS Data			Cache Location
	□Stored □Processed □Transmitted			Log Locations:
	Environmental/Natural Resource Data	l V		Backup Locatio
	□Stored □Processed □Transmitted	_		
	Other:			
	□Stored □Processed □Transmitted	Sh	ared S	ystems &
1	Other:	Pr	ocesse	s:
	□Stored □Processed □Transmitted			
	Other:			Financial
	□Stored □Processed □Transmitted	Alter	Syster	
	Other:			Billing/Invoicin
	□Stored □Processed □Transmitted			Time/Expense
	Other:			Entry
	□Stored □Processed □Transmitted		Contra	act Systems
		ō		ty Systems
				LDAP/Active
lov	v We Define a Technology Asset:	\		Directory
	v we benne a technology Assect			
100				Security Broke
100				
100				☐ Okta
100				☐ Okta ☐ Duo
		L		
	y Would We Rate Our Technology	L		☐ Duo
lov	w Would We Rate Our Technology			□ Duo □ Ping □ Other
Hov	v Would We Rate Our Technology et Inventory omprehensive			□ Duo □ Ping □ Other

Systems & Connected Resources:
☐ Resources
☐ Cloud/Shared
□laaS □PaaS □SaaS □FaaS
□On-Prem □Co-located □Hosted
☐ Application 1:
☐ Component Inventory Location:
Responsible Personnel:
☐ Application 2:
☐ Component Inventory Location:
Responsible Personnel:
☐ Application 3:
☐ Component Inventory Location:
Responsible Personnel:
☐ Storage Locations not Inventoried with Application
☐ Cloud Storage:
☐ Database:
☐ Network/Fileshare:
☐ Cache Locations:
☐ Log Locations:
☐ Backup Locations:
Shared Systems & Key Devices (IT / OT):
Processes: Servers
□ HR Systems □ Workstations
☐ ERP & Financial ☐ Desktops

Systems

Billing/Invoicing
Time/Expense

Security Broker ☐ Okta

☐ Laptops □ VDI/Thin ■ Mobile Devices

☐ Firewall ☐ Load Balancer ☐ Security Appliances

Hosted / Cloud

☐ XYZ

□ XYZ

referenced application inventories components hardware device Version, Software version(s), and libraries.

Key Cybersecurity Program Attributes:			
-			
0	Personnel:		
0			

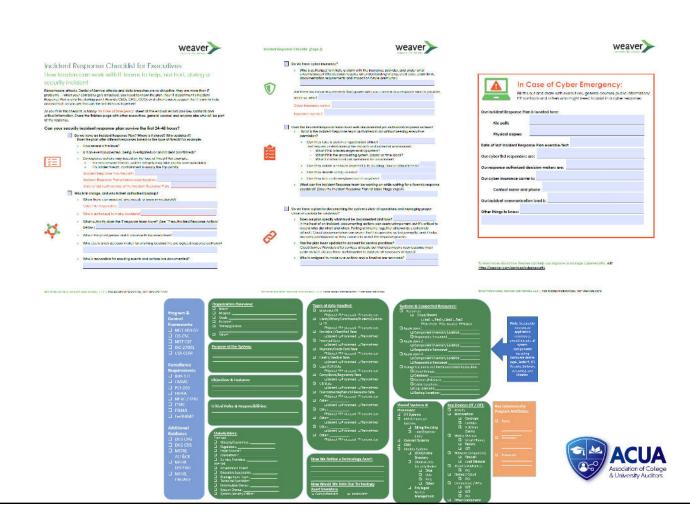




Download for Resources

Weaver's Incident
Response Checklist Link

Weaver's Cybersecurity
Map Link





Common Questions Asked "For a Friend"

- How often do we need to organize a table top exercise? And who needs to be involved?
- If IT functions are outsourced to a service provider, who own's the Incident Response function?
- What in Incident Response has surprised you the most?
- What are the leading regulatory "gotcha's" for incident response?





A Higher Education Collaborative Experience

Audit Interactive



Reema Parappilly

CISA, CIA, CDPSE
Partner, IT Advisory Services
reema.p@weaver.com
832.320.3254

