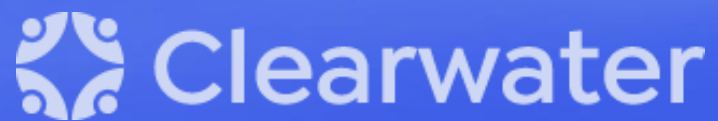


Monthly Cyber Briefing

May 2024



Logistics

- All attendees in “Listen Only Mode”
- Please ask content related questions in Q&A
- Recording and final slides shared within 48 hours
- Please take a few minutes to provide feedback via survey prompt at the end of this session

Agenda & Speakers

- Cyber update
- Disaster Recovery and Business Continuity Planning



Steve Cagle

CEO
Clearwater



Angie Santiago

Manager, Consulting Services – Resiliency
Solutions
Clearwater



Tom Joyce

vCISO, Technical Security Services
Clearwater

Cyber Update

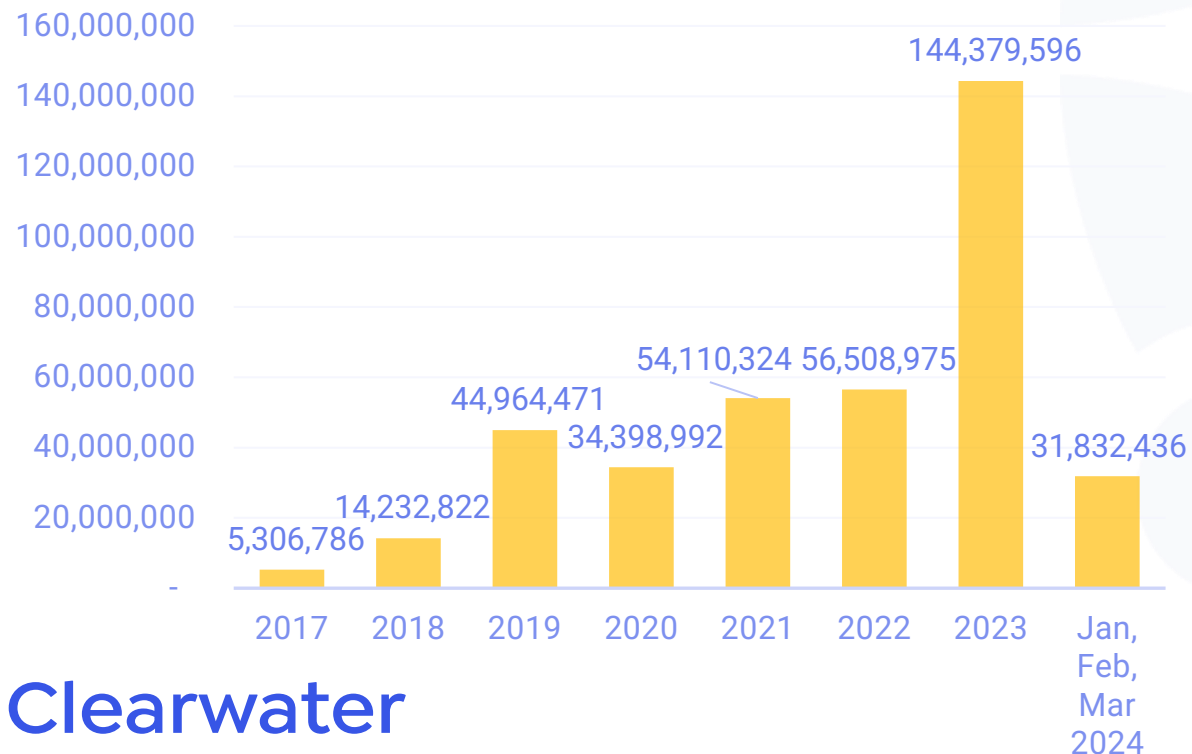
Steve Cagle



Breach Reports via OCR Breach Portal¹

- 144.4M records reported breached in 2023, an increase of 61% vs 56.5 million in 2022
- 737 breaches reported in 2023 vs 720 in 2022, a slight increase year over year
- OCR added additional breaches and/or updates to number of records in 2023, increasing records breached by 10 million

Healthcare Records Breached



Notable in March 2024 breach data

- About 31.8 million records (249 breaches) reported Jan – April
- Kaiser Permanente reported Unauthorized Use of 13.4M records, related to online tracking technologies
- 79% of breaches related to Hacking/IT Incident
- 57% of breached records due to Hacking/IT Incident
- If excluding Kaiser breach, 98% of breached records due to Hacking/IT Incident

¹HHS Breach Portal (data for 2023 pulled March 21, data for 2024 pulled April 25, 2024).

²Refer to March Cyber Briefing for top breaches of 2025

Change Healthcare Cyber Attack Updates

United Healthcare Reports Losses

UnitedHealth reported losses already of \$870M and projecting \$1.6B in total losses.

Double Extortion

Notchy partners with RansomHub; leaks data and threatens further leaks if deal not reached.

Ransom Paid

UnitedHealth says they made a ransom payment. UnitedHealth was removed from RansomHub victim website.

MFA Not Enabled

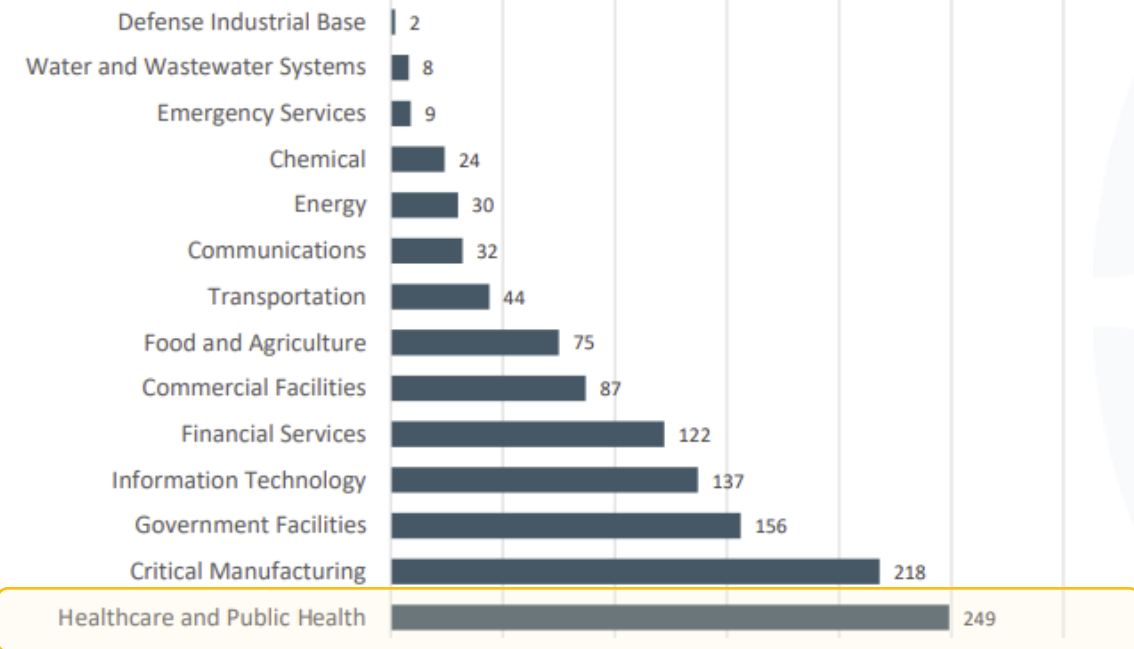
WSJ reported that the system that was breached did NOT have MFA enabled. Confirmed by CEO in Congressional testimony 5/1.

Still Recovering

UnitedHealth states medical claims flowing at "normal" levels and payment processing is at 86% of previous levels.

Ransomware Threat Continues to Increase

Infrastructure Sectors Affected by Ransomware



- 95% increase in Ransomware in 2023¹
- 13% Increase in Insurance Claims – increase primarily driven by ransomware 2023²
- Healthcare is the most targeted critical infrastructure industry by ransomware gangs³
- Total losses from internet crime increased in the U.S. by 22% in 2023 to \$12.5 Billion³
- 20% increase in reported victims in Q1 2024 vs Q1 2023⁴

¹At Least 141 Were Hospitals Directly Affected by Ransomware Attacks in 2023 (hipaajournal.com)

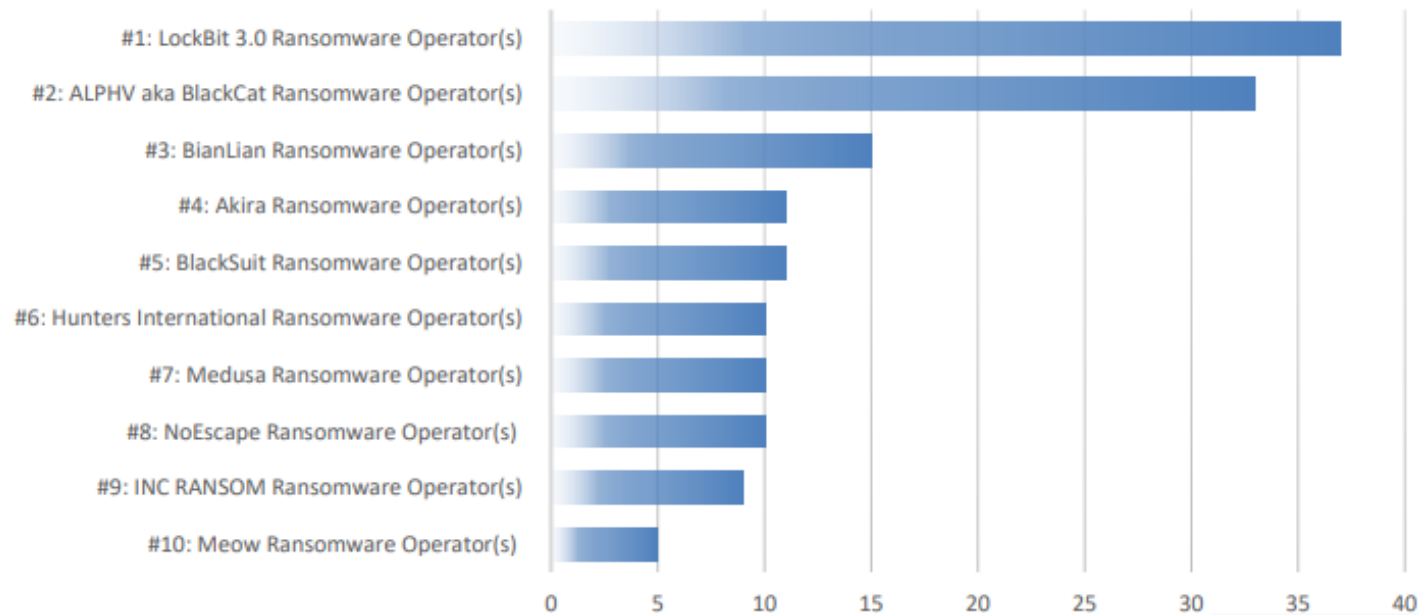
²Ransomware triggers cyberinsurance claims increase | SC Media (scmagazine.com)

³2023 FBI Internet Crime Report.pdf

⁴GuidePoint Security Q1 2024 Ransomware Report

Ransomware Actors Targeting Healthcare

HC3'S TOP 10 MOST ACTIVE RANSOMWARE GROUPS (LAST SIX MONTHS)



As of mid-March 2024, in the last six months HC3 has tracked 530 cyber attacks against the U.S. HPH, and of those attacks, nearly half were ransomware related.

Re-Cap of Notable Ransomware Attacks By Threat Actors Targeting HC - Last 6 Months



January 2024



January 2024



October 2023



February 2024



March 2024



November 2023



December 2023



December 2023



December 2023

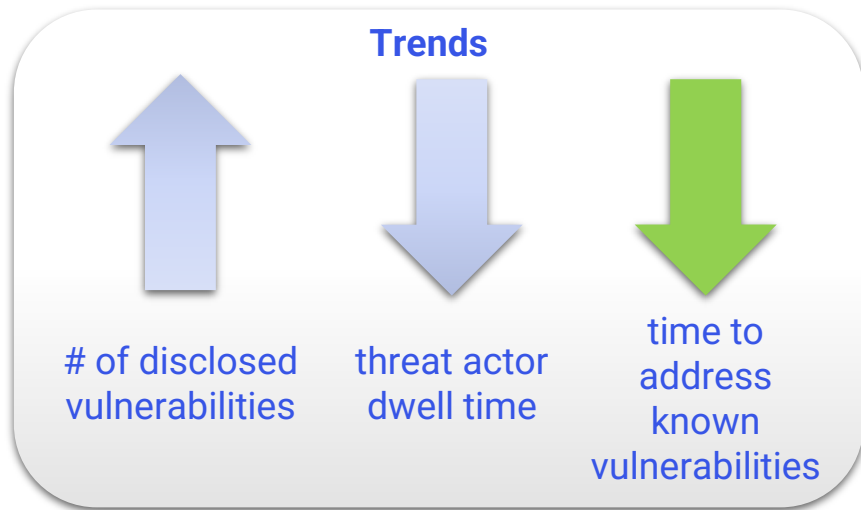


April 2024

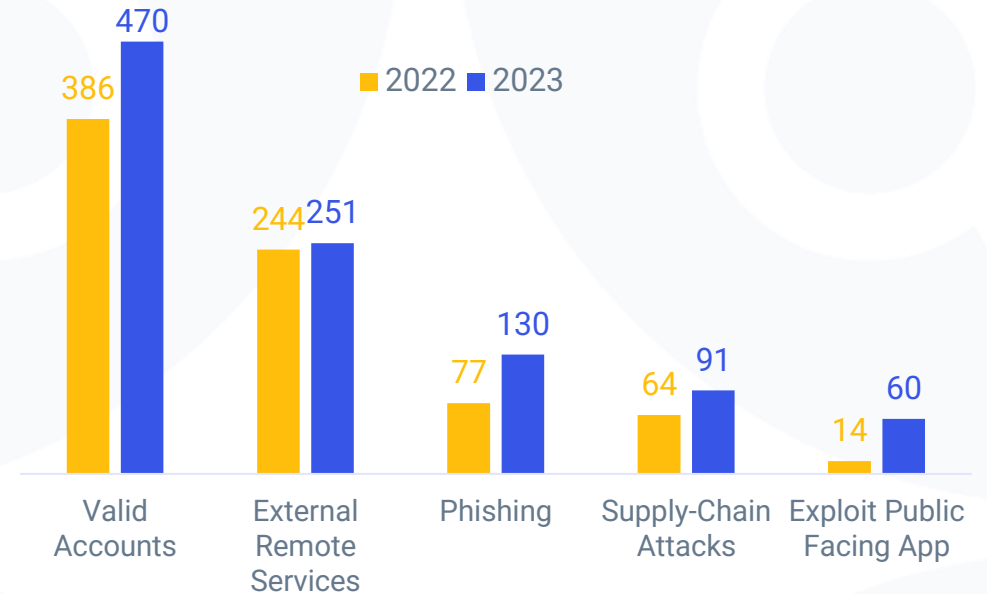


No Surprises with TTPs

- Threat actors going after organizations with financial motives and multiple options of extortion
- The individual continues to be the target of the adversary to steal credentials and exploit **vulnerabilities in third-party services**



Top 5 TTPs used to gain initial access in validated Cyberattacked (Source Recorded Future)



Recorded Future 2024 Predictions

The “phishing” landscape will become the “spearphishing” landscape as generative AI helps attackers create particularized lures.

The rise of passwordless logins will likely drive criminal activity away from infostealers and back to email-based credential harvesting.

Addressing TTPs of Known Threat Actors

Trend	Capabilities	Potential Actions
Zero Days, Rate of vulnerabilities	<ul style="list-style-type: none"> On going vulnerability management Rapid remediation of critical and high vulnerabilities Monitor and implement vendor and sector alerts 	Leverage a continuous vulnerability management as a service
Exploitation where there is inconsistencies in controls	Program for Continuous Risk Analysis and Risk Response	Inventory System – Perform Asset-based Risk Analysis
Exploitation of users	Protect user identities, restrict access	<ul style="list-style-type: none"> Dial-up Security Awareness Training MFA, PAM, RBA
Sophistication of attacks + Growing attack surface	<ul style="list-style-type: none"> Identify all Information Systems Penetration Testing Security Controls Validation 	<ul style="list-style-type: none"> Asset cataloguing Outsourced Technical Testing program vCISO + 405(d) HICP or NIST Adoption
Third Party Risk	Assess high risk vendors with more rigor and require more robust security	Leverage Vendor risk management as a service
Dwell time decrease -> Ransomware Deployment -> Exfiltration	<ul style="list-style-type: none"> Rapidly detect and response to compromise – orchestrate log, EDR, vulnerability data, 24/7 monitoring Business Impact Analysis IRPs, DRP, BCPs 	<ul style="list-style-type: none"> Managed Detection & Response Services Assess and remediate resiliency program Exercise Incident response plans

Relevant Threat Indicators & Resources

Recent HC3 Alerts

- Palo Alto Networks Firewalls
- Social Engineering Attacks Targeting IT Help Desks
- Credential Harvesting

Threat Actor TTPs & ICs Resources

- [HC3 alert on LockBit Exploiting Citrix Bleed 11/23/24](#)
- [CISA advisory on BianLian 5/16/23](#)
- [HC3 alert on Rhysida 8/4/23](#)
- [CISA advisory on Rhysida Ransomware 11/15/23](#)
- [HC3 alert on Akira on 9/12/23](#)
- [HC3 alert on Akira on 2/7/24](#)
- [CISA alert on Akira 4/18/24](#)
- [HC3 analyst note on BlackSuit Ransomware on 11/6/23](#)
- [CISA advisory on Royal \(BlackSuit\) 11/13/23](#)
- [CISA advisory on BlackCat/ALPHV updated 2/27/24](#)

The image displays three overlapping screenshots of HC3 Sector Alerts. The top alert is dated April 18, 2024, with TLP: CLEAR and Report: 202404181500, titled 'Update: Palo Alto Networks Firewalls (CVE-2024-3400)'. The middle alert is dated April 3, 2024, with TLP: CLEAR and Report: 202404031000, titled 'Social Engineering Attacks Targeting IT Help Desks in the Health Sector'. The bottom alert is dated March 18, 2024, with TLP: CLEAR and Report: 202403181500, titled 'Credential Harvesting and Mitigations'. Each alert includes an Executive Summary, Report, and Analysis sections, along with logos for the Office of Information Security and the Health Sector Cybersecurity Coordination Center.



Regulatory Updates

Steve Cagle



New Rule to Support Reproductive Health Care Privacy Under HIPAA

- Prohibits the use or disclosure of PHI when it is sought to investigate or impose liability for lawful reproductive healthcare care
- CEs and BAs must obtain a signed attestation that requests for PHI related to reproductive health care are not for these prohibited purposes
- Requires regulated health care providers, health plans, and clearinghouses to modify their Notice of Privacy Practices to support reproductive health care privacy

[BILLING NUMBER: 4153-01-P]

DEPARTMENT OF HEALTH AND HUMAN SERVICES

Office of the Secretary

45 CFR Parts 160 and 164

RIN 0945-AA20

HIPAA Privacy Rule to Support Reproductive Health Care Privacy

AGENCY: Office for Civil Rights (OCR), Office of the Secretary, Department of Health and Human Services.

ACTION: Final rule.

SUMMARY: The Department of Health and Human Services (HHS or “Department”) is issuing this final rule to modify the Standards for Privacy of Individually Identifiable Health Information (“Privacy Rule”) under the Health Insurance Portability and Accountability Act of 1996 (HIPAA) and the Health Information Technology for Economic and Clinical Health Act of 2009 (HITECH Act). The Department is issuing this final rule after careful consideration of all public comments received in response to the notice of proposed rulemaking (NPRM) for the HIPAA Privacy Rule to Support Reproductive Health Care Privacy (“2023 Privacy Rule NPRM”) and public comments received on proposals to revise provisions of the HIPAA Privacy Rule in the NPRM for the Confidentiality of Substance Use Disorder (SUD) Patient Records (“2022 Part 2 NPRM”).

DATES: *Effective date:* This final rule is **effective** on [INSERT DATE 60 DAYS AFTER DATE OF PUBLICATION IN THE FEDERAL REGISTER].

Compliance date: Persons subject to this regulation must comply with the applicable requirements of this final rule by [INSERT DATE 240 DAYS AFTER DATE OF PUBLICATION IN THE FEDERAL REGISTER], except for the applicable requirements of 45 CFR 164.520 in this final rule. Persons subject to this regulation must comply with the applicable requirements of 45 CFR 164.520 in this final rule by February 16, 2026.

HHS 2025 Budget Proposal Calls for More Funding - and More Penalties – Related to CPGs For Hospitals


- [2025 Biden administration/HHS budget proposal](#) for cybersecurity based on Healthcare Cybersecurity Performance Goals
 - \$800 million for high need (2,000) hospitals for essential cybersecurity practices FY 2027 - 2028
 - \$500 million incentive program for enhanced cybersecurity practices for all hospitals FY 2029 - 2031
 - Funding through Promoting Interoperability
 - Penalties begin FY 2029 and increase in size in FY 2031
 - By 2031 both Essential and Enhanced required
- Concerns with this program
 - Slow drip of funding over 10 years
 - No incentives in 2025 or 2026
 - Only applies to hospitals



ADMINISTRATION'S BUDGET ADVANCES HOSPITAL CYBERSECURITY STANDARDS					
Medicare Incentives and disincentives for the essential and enhanced practices program					
	FY 27	FY 28	FY 29	FY 30	FY 30+
ESSENTIAL		\$800M to high-need hospitals to adopt essential practices	▲ Acute Care Hospitals: Up to 100% market basket update reduction CAHs: Up to 1% payment reduction	▲	▲ Acute Care Hospitals: Up to 100% market basket update reduction & up to 1% base payment reduction
ENHANCED			\$500M to all hospitals for meeting enhanced practices	▲	▲ Acute Care Hospitals: Up to 100% market basket update reduction & up to 1% base payment reduction; CAHs: Up to 1% payment reduction

▲ For failure to adopt essential practices
▲ For failure to adopt essential and specified enhanced practices

State Attorney General Actions



 **Letitia James**
New York State Attorney General

Home | Press Releases | Attorney General James Secures \$200,000 From Law Firm For Failing To Protect New Yorkers' Personal Data

Attorney General James Secures \$200,000 from Law Firm for Failing to Protect New Yorkers' Personal Data

- Failure to assess and remediate known vulnerabilities
- Suffered LockBit ransomware attack
- Failed to timely notify 61,438 New York residents of breach
- 17 total counts of HIPAA and state law security violations

Other Updates (Some Covered in Previous Cyber Briefings)

- CIRCIA Final Rule was published on 3/27/2024, 60-day comment period starting 4/4/24, and will go into effect within 18 months from publication
- HHS to restart Auditing program later this year. Also seeking increase in penalties for HIPAA violations
- HHS Updated Guidance on Tracking Technologies
- FTC Prohibits Monument (Alcohol Addiction Firm) from Sharing Consumer Data. Also fines \$2.5 Civil Monetary Penalty (suspended) in fourth enforcement case related to online tracking technologies

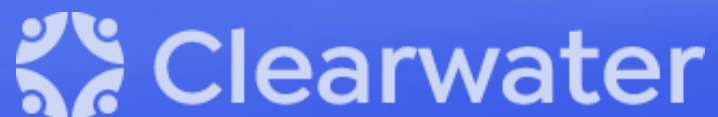
Compliance Recommendations

1. Evaluate use of online tracking technologies
2. Complete Gap Assessments of HIPAA and State requirements
3. Ensure OCR-Quality Risk Analysis is up to date
4. Make updates to policies and procedures
5. Assess your implementation of 405(d) HICP

Disaster Recovery and Business Continuity Planning

Angie Santiago

Tom Joyce



Angie M. Santiago, MA, CBCP



- Disaster Management Systems Methodology Designer & Educator
- Healthcare Disaster Operations & Long-Term Recovery
- Emergency Management, Business Continuity, Disaster Recovery
- Conflict Management & Resolution
- 100 plus programs, 200 plus exercises, 60 plus major disaster declarations
- Partnership for Inclusive Disaster Strategies
- Resilient Nation Partnership Network
- CISA 405(d) Task Force
- Institute for Diversity in Emergency Management
- InfraGard
- Information System Security Association
- Women in Cybersecurity

Tom Joyce, CISSP, CHPCP, CCFSP, MPM



- Experienced cybersecurity leader in multiple industries: healthcare, finance, manufacturing, higher education
- Former CISO – Mountain Health Network (now Marshall University Health)
- Member – InfraGard, ISSA, ISC2, DRI
- BS Applied Mathematics – Scientific Computing & Engineering Systems, Carnegie Mellon University

How ready is your organization?



Life & Safety
Emergency
Mgmt.
Community
Preparedness



Internal /
External
Communications



Continuity of
Care &
Operations



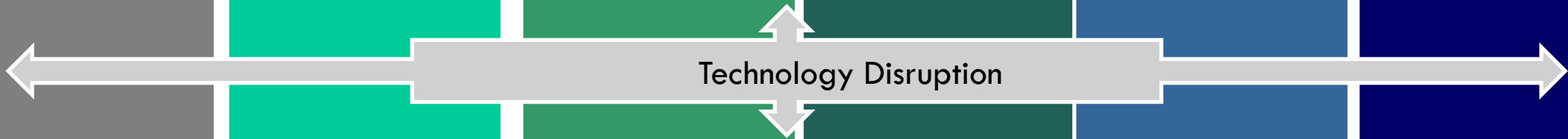
Medical Surge
Mass Casualty
Public Health



Information
Technology &
Cybersecurity

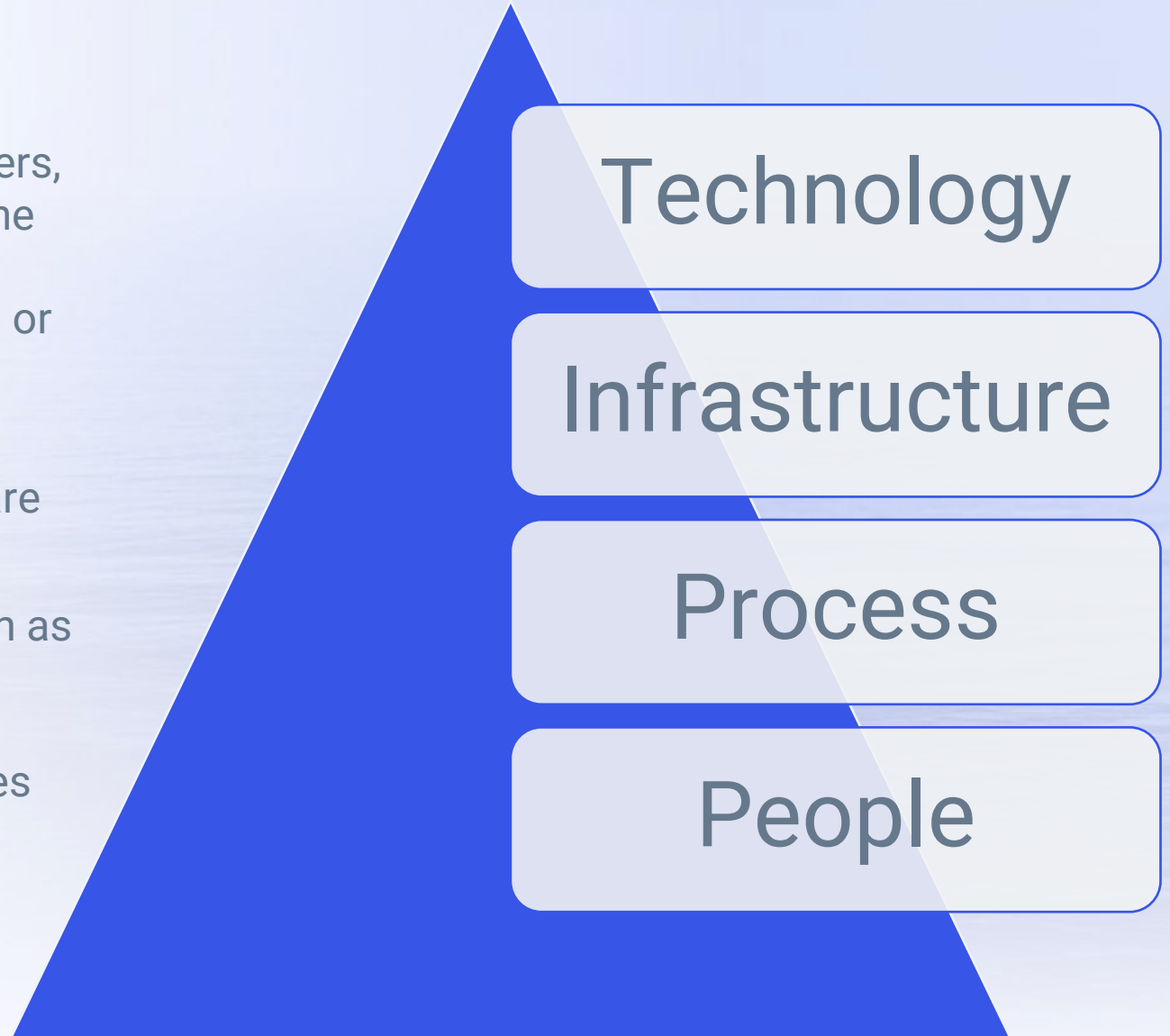


Infrastructure
Facilities



Foundational Priorities

- **People:** Patients, providers, staff, students, partners, and volunteers are the most important asset to the delivery of safe patient care, operations and administration of the practice, healthcare system or research activities.
- **Process:** Critical clinical, business, and administrative functions provide direct patient care and ensure the viability of the healthcare system.
- **Infrastructure:** Critical unseen infrastructure such as secure and resilient facilities, HVAC, telecommunications, utilities, water, sewage, sterilization, oxygen, telecommunications provides the capacity to deliver safe quality healthcare.
- **Technology:** Availability and resiliency of the technologies which support critical services.





Q&A





We are here to help.

Moving healthcare organizations to a more secure, compliant, and resilient state so they can achieve their mission.

Upcoming Events



A Conversation
About
Cybersecurity in
Healthcare | May 9,
2024



Cyber
Assurance in
Healthcare:
Insights from
HITRUST and
Clearwater |
May 22 @ 12:00
CST



McGuireWoods Healthcare
Privacy Equity & Finance
Conference | May 8-9, 2024

HIMSS
CENTRAL &
SOUTHERN OHIO
CHAPTER

Central Southern Ohio HIMSS
Spring Conference | May 10,
2024



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