

Monthly Cyber Briefing

September 4, 2025

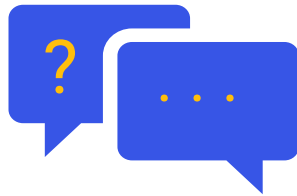


Meeting Logistics



Microphones

All attendees are on mute.



Questions

Type your questions in the Q&A box.



Resources

Upcoming events, slides & resources linked.



Recording

Recording will be provided after event.



Survey

Survey will prompt at the end of webinar.



Healthcare's Monthly Cyber Briefing

Agenda + Speakers:

- Cyber & Regulatory Update
- OCR Enforcement Findings in Cloud Environments
- Q+A

Dave Bailey, Clearwater VP Security
Services

Steve Cagle, Clearwater CEO



Cyber & Regulatory Update

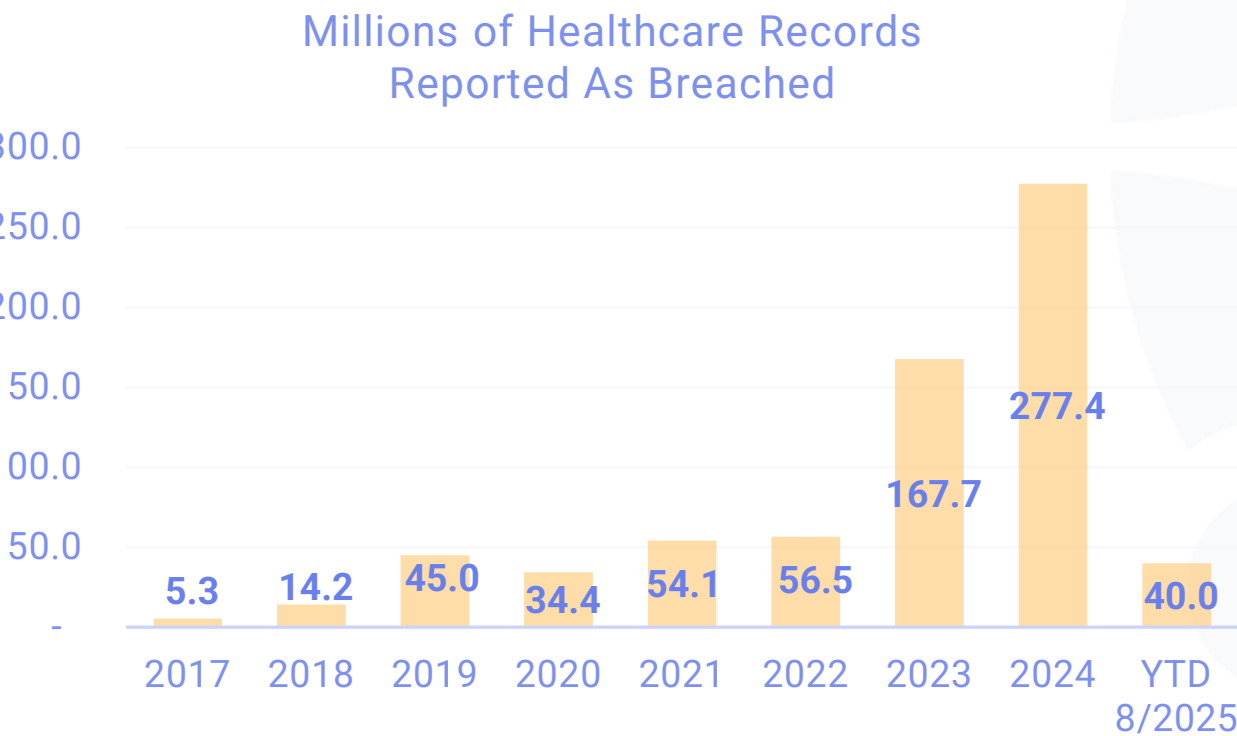
Steve Cagle, MBA, HCISPP, CHISL, CDH-E

CEO, Clearwater



Breach Reports via OCR Breach Portal¹

- 2024 breach data: 277.4M individuals from 734 breaches
- YTD 2025 breach data: 40.0M individuals from 480 breaches
- ~4M records reported in past month and 62 new breaches



Notable (large) Breaches

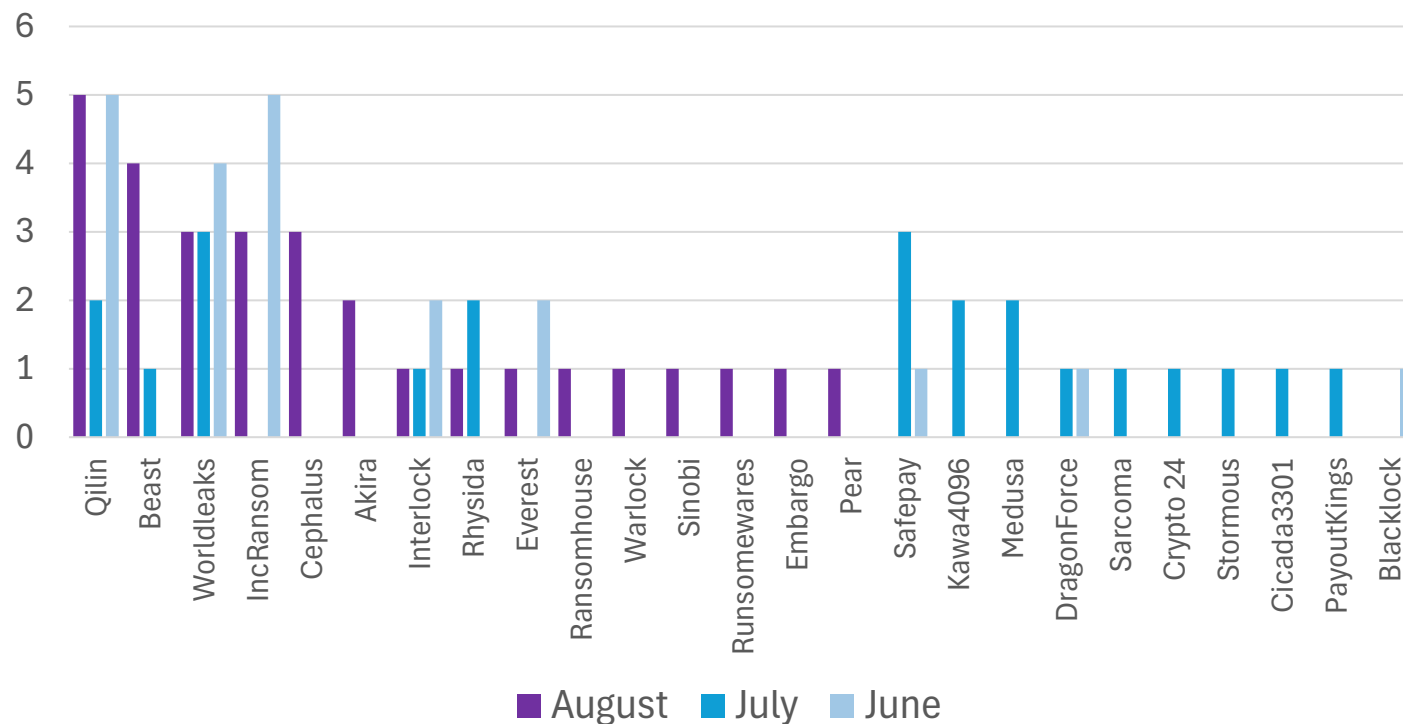
- DaVita (dialysis services) – Highly disruptive ransomware attack by Interlock that resulted in breach of 2.7M individuals
- Highlands Oncology Group – Medusa remained undetected for 4.5 months until deploying ransomware – 112K individuals affected in breach
- Vital Imaging Medical Diagnostic Centers – Another example of an attack on an imaging center resulting in breach of 270K individuals
- Aspire Rural Health, a Michigan-based healthcare provider – ransomware attack by BianLian going back to 2024 – 138K individuals affected

¹ The [HHS Breach Portal](#) (2024 data through 12/31/24, pulled on 3/30/25; 2025 data through 8/31/25, pulled 8/31/25)

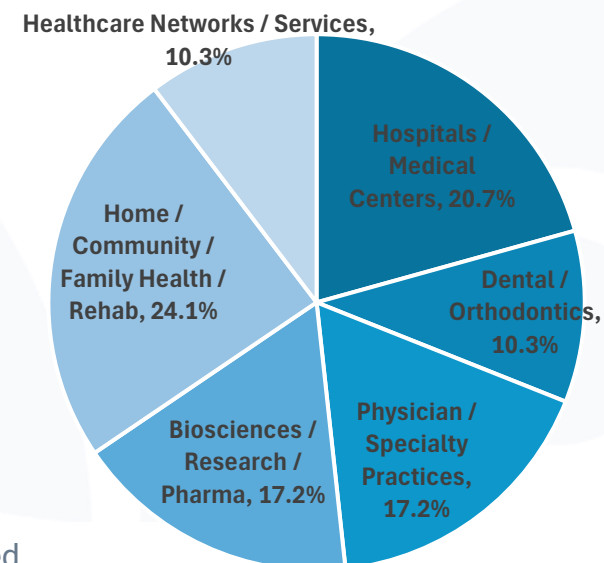
Healthcare Ransomware Attacks/Leaks Since Last Briefing

29 newly identified ransomware attacks on U.S. Healthcare organizations in August – 32% increase over average of previous three months

Reported or Claimed Ransomware Attacks On U.S. Healthcare
August vs July and June



- INC Ransom, who was inactive last month, returns with 3 ransomware attacks
- Qilin continues lead in attacks since May. Evolving techniques, capabilities and network
- Two new threat actors in top 5 – Cephalus and Beast (see next slides) among 8 new threat actors not previously seen this year in healthcare



New Threat Actor Targeting Healthcare - Cephalus

3 Attacks on U.S. Healthcare organizations including Colorado Health Network, Texas Pregnancy Care Network and what appears to be a second extortion of CareSTL Health

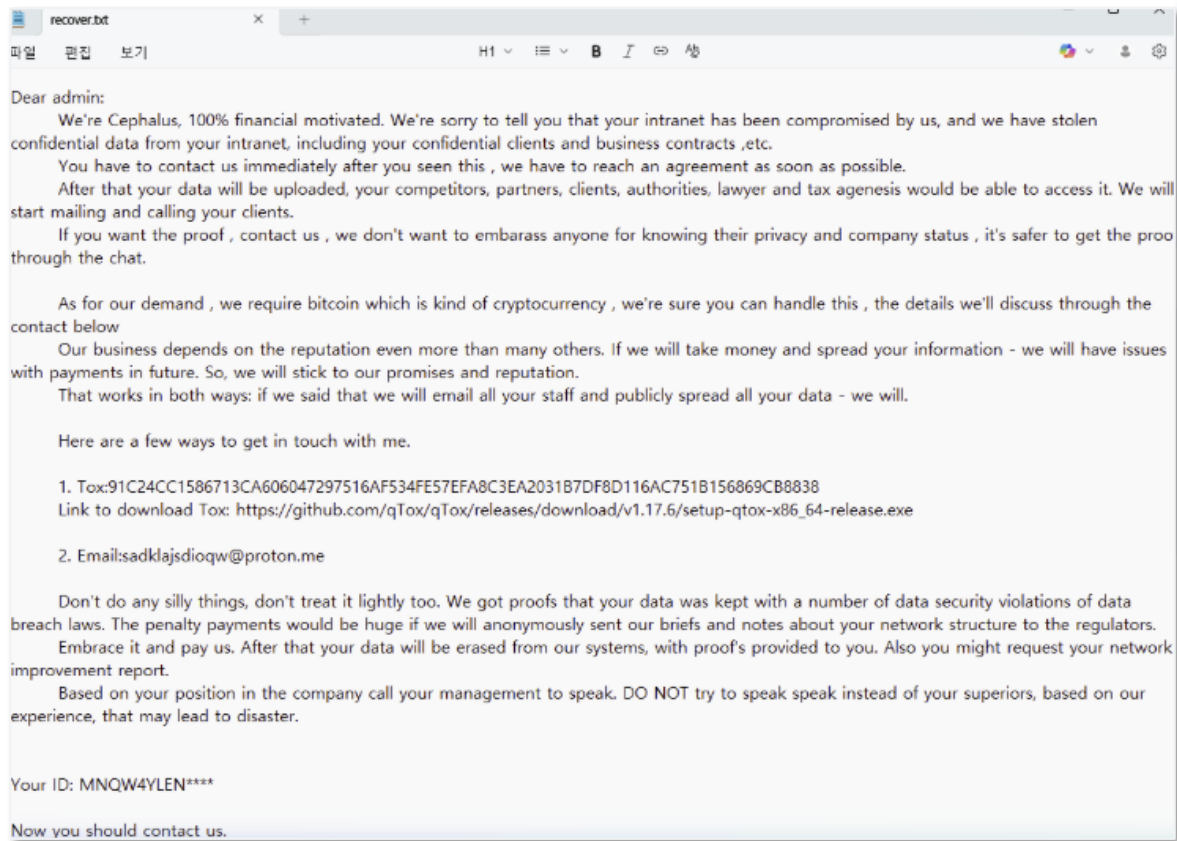


Image of Cephalus ransomware note.

- Emerged August 2025 – already claims 19 victims
- Entry via RDP using accounts without MFA
- Uses MEGA as part of data exfiltration
- Abuses legitimate SentinelOne executables¹ to deploy its payload via dynamic-link library (DLL) sideloading
- Cripples recovery with shadow-copy deletion
- Systematically attempts to disable Windows Defender through PowerShell and registry manipulations.
- High pressure ransomware note

¹ **SentinelBrowserNativeHost.exe**, a legitimate **SentinelOne** executable, was launched from the user's Downloads folder, which then loaded **SentinelAgentCore.dll**. From this, **data.bin (ransomware)** was then loaded.

New Threat Actor Targeting Healthcare - Beast

4 Attacks on U.S. Healthcare organizations including Van Hook Dental Studio, Huron Regional Medical, Rehabilitation Health Services and Provail

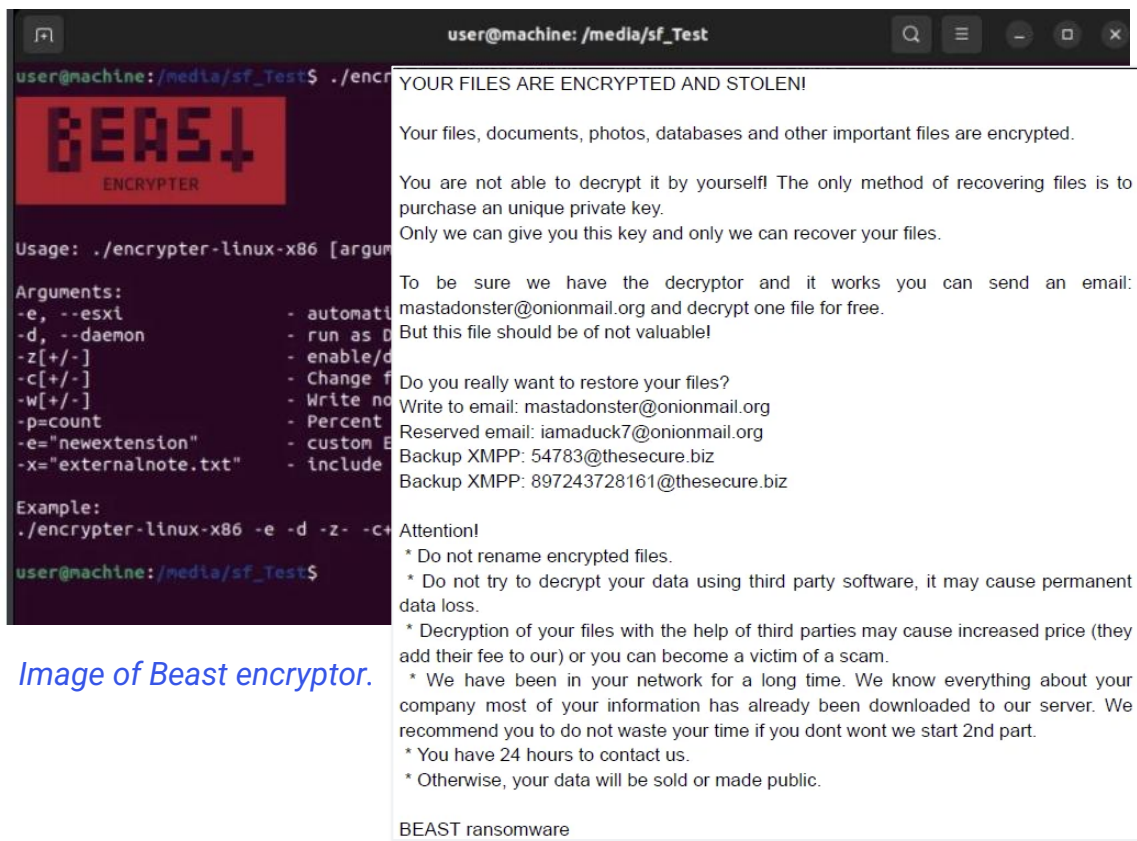
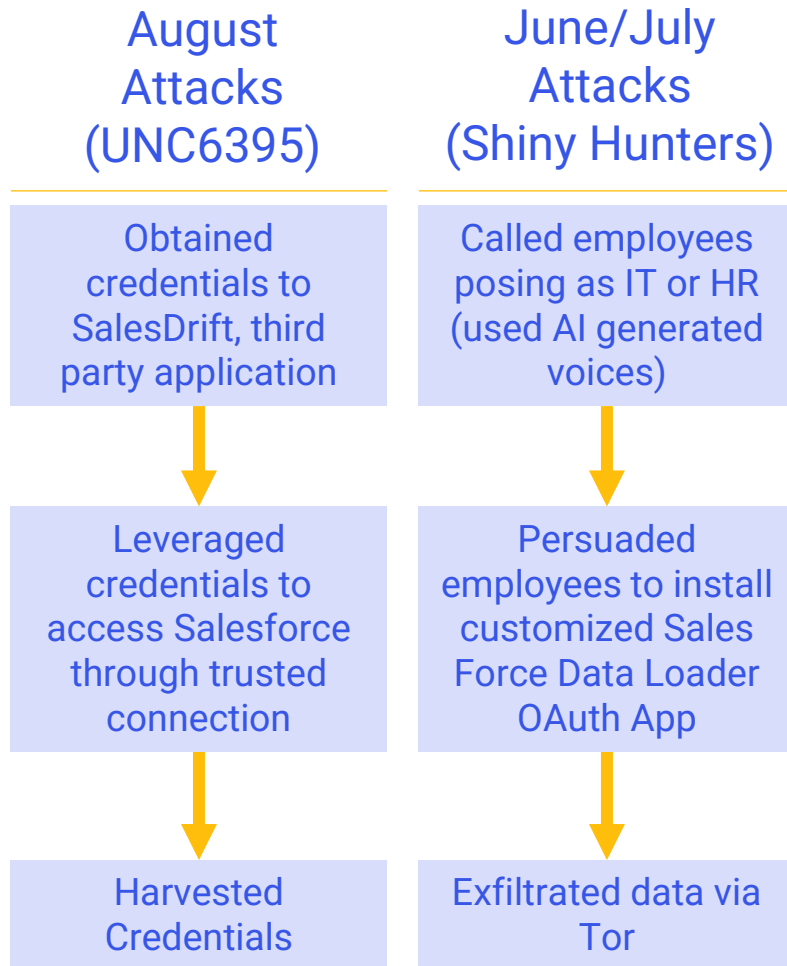


Image of Beast encryptor.

Image of Beast ransomware note.

- Active since 2022 (formerly Monster), however, new capabilities and affiliate program promoted starting June of this year
- Use brute forced, password spraying or purchased leaked credentials, as well as target misconfigured internet-exposed servers, often finding credentials that don't have MFA
- Avoids detection by disguising executables and binaries to look like they are legitimate
- Uses Tor leak site and onion network making it harder for law enforcement to trace them
- Typical double extortion with short turnaround time to leak data if ransom is not paid

Cyber Attacks on Salesforce Customers



Threat Actors targeting Salesforce in multiple attack campaigns, enabling them to compromise sensitive data from large companies

Recent Attack – August - UNC6395

- Used compromised OAuth credentials associated with Salesloft Drift to exfiltrate data from Salesforce customer instances
- Stole credentials, focusing on sensitive information like AWS access keys, passwords, and Snowflake-related access tokens
- 700 victims, including Cloudflare, Palo Alto, and Zscaler, and a limited number of Google Workspaces

June/July Attacks – Shiny Hunters (+ Scattered Spider & LAPSUS\$)

- Impersonated IT staff in phone calls, convincing targets to install a customized version of Salesforce Data Loader OAuth application
- Leveraged stolen credentials/tokens stolen through phishing pages
- Victims include Google, Qantas, Allianz Life, Workday, Pandora, Cisco, Chanel, and Adidas
- Members of 3 gangs teamed to become "Scattered LAPSUS\$ Hunters"

OCR Enforcement For Ransomware & Risk Analysis



OCR finds that failure to conduct risk analysis related to ransomware attack that resulted in a breach of 24,891 individuals. *15th Ransomware Enforcement Action.*

BST & Co. CPAs, a New York accounting, advisory, and management consulting firm entered into a 2-year CAP and paid \$175,000 settlement

- BST is a HIPAA business associate and receives financial information that also contains protected health information (PHI)
- December 7, 2019, BST discovered that part of its network was infected with ransomware
- OCR's investigation determined that BST had failed to conduct an accurate and thorough risk analysis to determine the potential risks and vulnerabilities to the confidentiality, integrity, and availability of ePHI held by BST

Key quotes from new OCR Director Paula Stannard:

"A HIPAA risk analysis is essential for identifying where ePHI is stored and what security measures are needed to protect it."

"Completing an accurate and thorough risk analysis that informs a risk management plan is a foundational step to mitigate or prevent cyberattacks and breaches."

OCR Given Additional Enforcement Responsibility

HHS Secretary Robert F. Kennedy, Jr. announced it is empowering Office for Civil Rights to administer and enforce confidentiality of Substance Use Disorder patient records.



Authorities delegated include:

1. Impose civil money penalties under section 1176 of the Social Security Act, as amended, for failures to comply with requirements under 42 CFR Part 2;
2. Enter into resolution agreements, monetary settlements, and corrective action plans, as appropriate, to resolve indications of noncompliance with requirements of that section;
3. Issue subpoenas requiring the attendance and testimony of witnesses and the production of any evidence that relates to any matter under investigation or compliance review for failure to comply with requirements of that section.

[Link to Federal Register](#)

[Fact Sheet 42 CFR Part 2 Final Rule | HHS.gov](#)

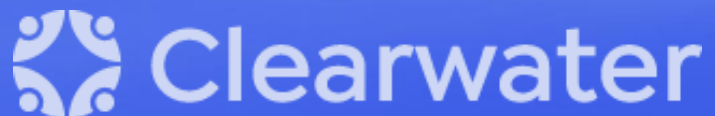
Recommendations

Relevant actions based on current healthcare threat actor TTPs & regulatory enforcement trends discussed in this briefing.

- Don't expose RDP directly to the internet; instead, use a VPN or Zero Trust Network Access (ZTNA)
 - Restrict RDP access to only those users who absolutely need it
 - Monitor RDP Sessions: Keep a close eye on RDP activity and logs to detect suspicious actions
- Enforce strong passwords and enable phishing resistant Multi-Factor Authentication (MFA) and Network Level Authentication (NLA)
- Train workforce on AI powered vishing TTPs; conduct vishing and smishing testing using realistic attack scenarios
- Monitor for latest IOCs, particularly of threat actors targeting healthcare
- Apply strict controls and perform regular audits of OAuth-connected applications; generate alerts for unusual activity
- Protect tokens or credentials associated with integrations. Periodically revoke and rotate credentials in APIs and monitor for updates from vendors. Use concept of least privilege for integration accounts and limit data accessible to minimum necessary
- Continuously scan for vulnerabilities and patch critical and high-risk vulnerabilities right away
- Update your risk analysis ensuring it includes all information systems, it's up to date, and have a Risk Management Plan

OCR Enforcement Findings in Cloud Environments

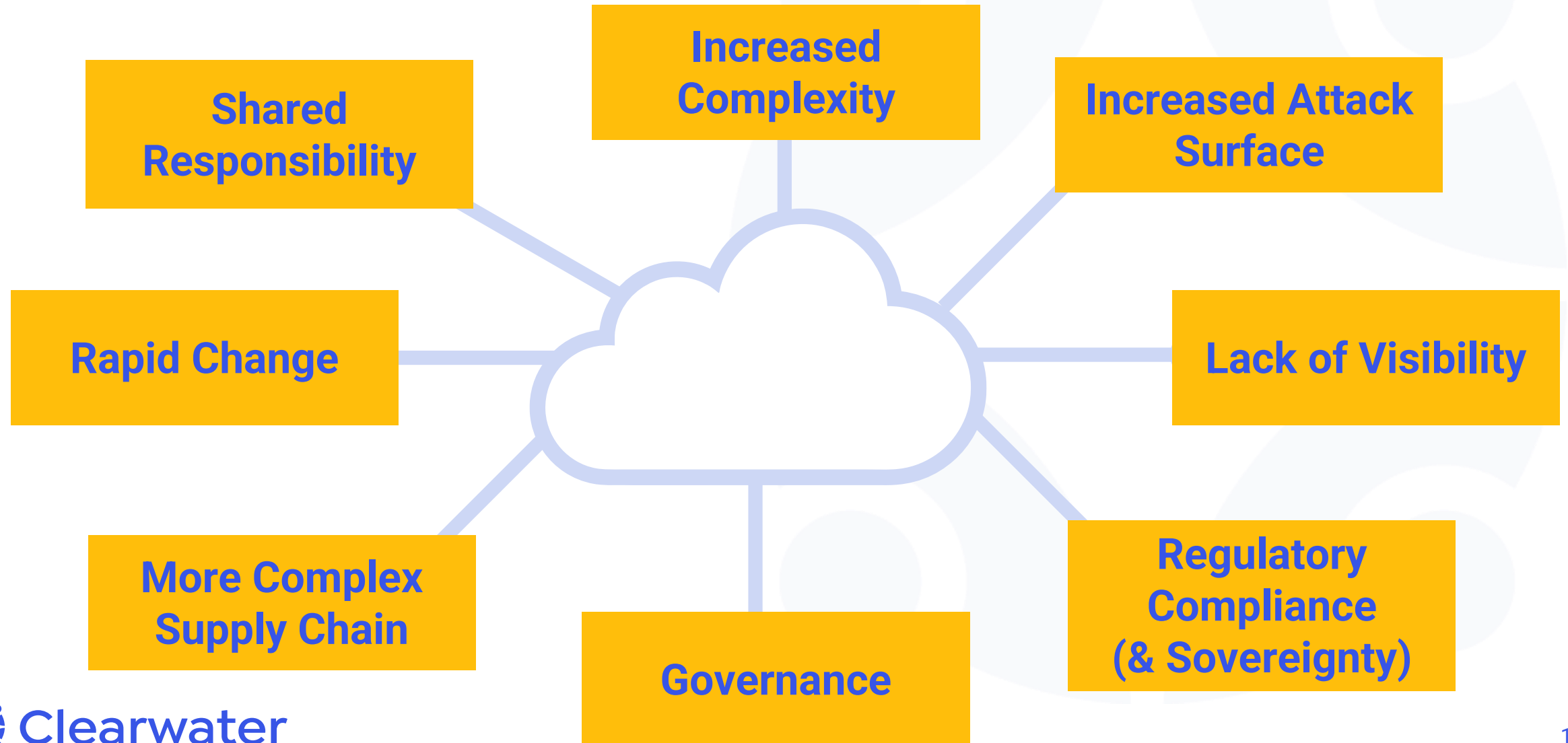
Dave Bailey, VP of Security Services, Clearwater





Cloud risks are different because they **shift control boundaries**, increase **third-party dependencies**, and create **compliance challenges** around data location, auditability, and vendor accountability

Cloud adoption must be paired with rigorous governance, contracts, monitoring, and regulatory mapping



Shared responsibility requires clear understanding of the boundaries

Cloud Service Provider

The cloud service provider ensures **the cloud** is secure

Customer

The customer ensures **their usage of the cloud** is secure

Cloud Infrastructure

Application(s)

Data

Time for
a poll!

The customer's role centers on securing what they put in and how they use the cloud

Infrastructure: IaaS	Platform: PaaS	Software: SaaS
Compliance & Governance	Compliance & Governance	Compliance & Governance
Logging & Monitoring	Logging & Monitoring	Logging & Monitoring
Identity & Access Mgmt	Identity & Access Mgmt	Identity & Access Mgmt
Data Security and Privacy	Data Security and Privacy	Data Security and Privacy
Application	Application	Application
Operating System	Operating System	Operating System
Network & Virtualization	Network & Virtualization	Network & Virtualization
Physical Facilities	Physical Facilities	Physical Facilities

Provider

Shared

Customer

Cloud Service Providers are Business Associates

A covered entity (or business associate) that engages a CSP should understand the cloud computing environment or solution offered by a particular CSP so that the covered entity (or business associate) can appropriately **conduct its own risk analysis** and **establish risk management policies**, as well as enter into appropriate BAAs

Question	OCR Guidance
A CSP is a Business Associate if:	The CSP stores only encrypted ePHI and does not have a decryption key
Do the HIPAA Rules require a CSP to maintain ePHI for some period beyond when it has finished providing services to a CE or BA?	No, the HIPAA Rules generally do not require a business associate to maintain electronic protected health information (ePHI) beyond the time it provides services to a covered entity or business associate. The Privacy Rule provides that a business associate agreement (BAA) must require a business associate to return or destroy all PHI at the termination of the BAA where feasible. See 45 CFR § 164.504(e)(2)(ii)(J).
Do the HIPAA Rules require CSPs that are Bas to provide documentation, or allow auditing, of their security practices by their customers who are CEs or BAs?	No. The HIPAA Rules require covered entity and business associate customers to obtain satisfactory assurances in the form of a business associate agreement (BAA) with the CSP that the CSP will, among other things, appropriately safeguard the protected health information (PHI) that it creates, receives, maintains or transmits for the covered entity or business associate in accordance with the HIPAA Rules.

Source: <https://www.hhs.gov/hipaa/for-professionals/special-topics/health-information-technology/cloud-computing/index.html>

Multiple OCR enforcement actions in 2025 point to growing concern for inadequate risk analysis among cloud service providers

Cloud Service	Finding
Elgon Information Systems	<ul style="list-style-type: none">Cloud-based EHR/billing provider failed to conduct accurate and thorough risk analysis contributing to ransomware incident
Virtual Private Network Solutions	<ul style="list-style-type: none">Deficient risk analysis cited in cloud service provider's OCR settlement announcement
Comstar LLC	<ul style="list-style-type: none">Provider of billing and collection services delivered via cloud cited for insufficient risk analysis related to ransomware incident

Time for
a poll!

Encryption, permissions, and lack of effective authentication among top weaknesses in AWS

Cloud adoption enables speed, scale, and innovation. However, without proper assessment and secure configuration, AWS environments can expose sensitive data, disrupt operations, and create regulatory risk

Top Risks	Description
S3 Misconfigurations	Public access, lack of encryption, no versioning
IAM Weaknesses	Overly permissive roles, no MFA, hardcoded keys
Logging	Missing or misconfigured CloudTrail, no monitoring of privilege escalations
Unencrypted Data/Backups	EBS snapshots, RDS backups left unencrypted.

Misconfigurations, elevated privileges, and identity practices among top weaknesses in Azure

Assessing and securely configuring Azure is essential to protecting data, ensuring compliance, and enabling resilient business operations. It is not just an IT concern—it is a core business obligation that safeguards trust and reduces risk.

Top Risks	Description
Blob Storage Misconfigurations	Anonymous access, unencrypted storage
Overly Permissive RBAC	Global admin assigned broadly, no MFA
Audit Logging Failures	No Defender for Cloud, no Sentinel alerts
Unsupported Services	Using Power BI, Logic Apps, OpenAI without HIPAA coverage
Identity Risks	Illicit consent grant attacks via Entra ID, insecure group permissions
Weak Password Policies	leads to password spraying and PHI compromise

Continuous risk analysis & assessment is essential

One-time hardening is insufficient. Continuous risk analysis, security assessments and configuration reviews keep risk aligned to business tolerance

Cloud Changes Rapidly

- New cloud services and features launch frequently
-

Dynamic Business Needs

- Mergers, integrations, and new applications shift workloads
-

Evolving Threat Landscape

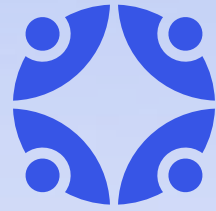
- Attackers actively target cloud misconfigurations
-

While CSPs secure the underlying infrastructure, customers are responsible for securing their data, access, and configurations

- Build and maintain a comprehensive cloud asset inventory
- Apply least privilege across IAM and AAD roles; enforce MFA
- Enable comprehensive logging & monitoring (CloudTrail, Azure Defender, Sentinel)
- Encrypt all ePHI (data at rest, in transit, and in backups)
- Validate BAA coverage for every cloud service used
- Conduct regular DR tests; ensure multi-region redundancy
- Adopt continuous cloud security posture management with healthcare-aware tools



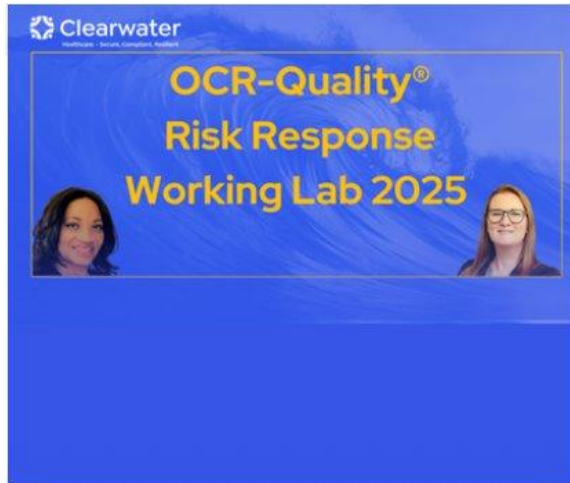
Most cloud breaches don't come from the cloud failing – it is customer misconfigurations or lack of implemented controls that can directly expose sensitive data



Q&A



Upcoming Webinars



OCR-Quality® Risk Response Working Lab 2025: Beginning September 10 @ 11:00 am CT

- Hands-On, Interactive E-Learning Series to Help You Minimize Cyber Risk Exposures and Meet Compliance Requirements
- 2-Part Series
- Register [here](#)



AHLA Webinar: Health Care's Due Diligence Dilemma | September 16, 2025 | 2:00 – 3:00 pm ET

- Andrew Mahler, VP Privacy and Compliance Services presenting on how organizations can address cybersecurity and data privacy challenges during health care mergers and acquisitions.
- Register [here](#)



Clearwater's Rural Critical Access Connect | September 18, 2025 | 12pm – 1pm CT

- Clearwater's Rural Critical Access Connect is your quarterly chance to connect and learn with peers facing the same cybersecurity challenges.
- Register [here](#)



Secure and Compliant: OCR-Quality® Risk Management in Action | October 1, 2025 | 12pm – 1pm CT

- Steve Cagle, CEO, Clearwater
- Lori Dutcher, CCO at Beth Israel Lahey Health
- Jon Moore, CRO and Head of Consulting Services, Clearwater
- Will Explore how healthcare organizations can build and sustain OCR-quality risk management programs that go beyond checkbox compliance
- Register [here](#)

Upcoming Events



McGuireWoods Healthcare
GO Conference | September 16-17,
2025 | Charlotte, NC



Nashville Healthcare Sessions |
September 29-30, 2025 |
Nashville, TN



Hospital Horizons Symposium
2025 | October 6-7, 2025 |
Washington, DC



SCALE Healthcare Leadership
Conference | October 14, 2025 |
New York, NY

- Attending the **McGuireWoods Healthcare GO Conference**, a premier two-day event convening leaders across healthcare operations, life sciences, private equity, and finance. Learn More & Register [here](#)



- Several Clearwater Colleagues attending **Nashville Healthcare Sessions**, the nation's premier healthcare innovation and finance event.
- Learn More & Register [here](#)

- Clearwater is proud to sponsor the second annual **Hospital Horizons Symposium**, hosted by Holland & Knight.
- Expert panels & networking
- Register & learn more [here](#)

- Clearwater is a proud sponsor
- Clearwater leading a panel discussion "Understanding Cyber Security Risks in a world of AI"
- Learn more & Register [here](#)

See you next month! October 9th



Clearwater's Monthly Cyber
Briefing | 12pm – 1pm CT

- **Speaking the Same Language: Building Trust Between Security and the Enterprise**
Fireside chat with Steve Cagle, CEO Clearwater & Tracy Touma, Cybersecurity Business Liaison on the Cleveland Clinic Advisory Team
- Meeting moved to the 2nd Thursday of the month, October 9th
- You are already registered and will automatically be enrolled in next month's briefing.



We are here to help.

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



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