

<u>Cybersecurity -</u> <u>Protecting your Resident's Data -</u> <u>Oversight over Information Technology</u>

Ben Hunter III, CISO CPA/CITP, CISA, CRISC, CDPSE, CISM



Bernard Robinson & Company







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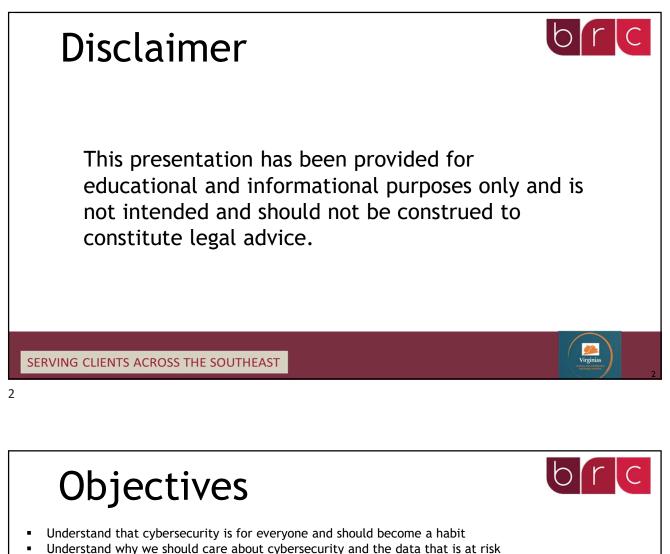
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Background

- Eagle Scout
- Served two-year mission in Portugal for the Church of Jesus Christ of Latter-day Saints
- Married 21 years 4 children
- United States Marine Corps
- Bachelor of Science in Accounting from UNC Greensboro
- Master of Science in Accounting from UNCG Greensboro
- Chief Information Security Officer at BRC
- Senior Risk Advisory Manager at BRC CPA.
- Specializes in Cybersecurity, SOC Reports and Information Technology Audits and Assessments.





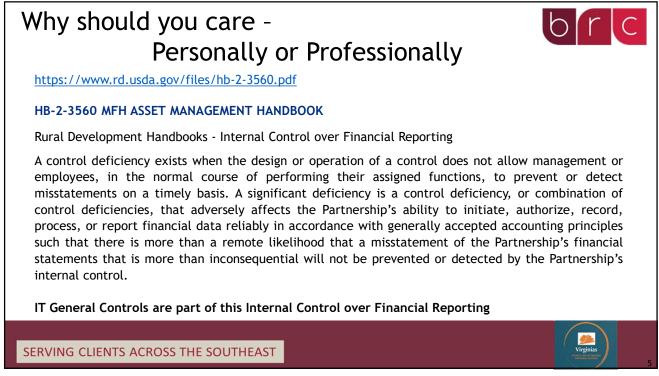
- Understand why we should train our employees
- Understand why we should have a cyber risk assessment annually
- Understand the ransomware risk
- Understand why we need to verify backups and restore capabilities
- Understand the danger of phishing and how phishing simulation reports can help
- Understand common Phishing Red Flags
- Understand the importance of network security monitoring
- Understand what is a vulnerability scan and how it helps
- Understand the importance of oversight over IT
- Understand what to do when there is a breach
- Understand how to create a good password
- Understand why USBs and USB ports are dangerous
- Understand how important 2FA / Multi-Factor Authentication is

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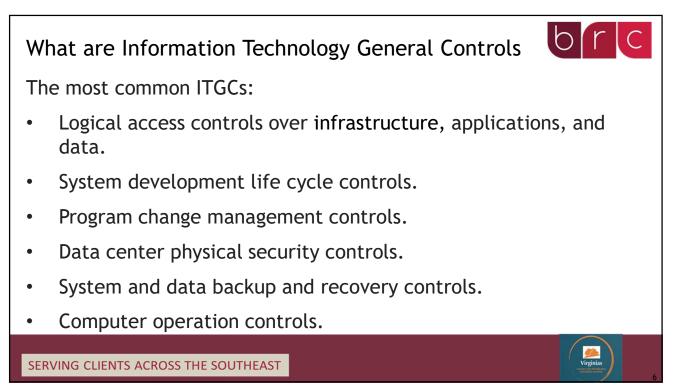
















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Data at Risk

- Social security number
- Dates of birth
- Addresses
- Email addresses

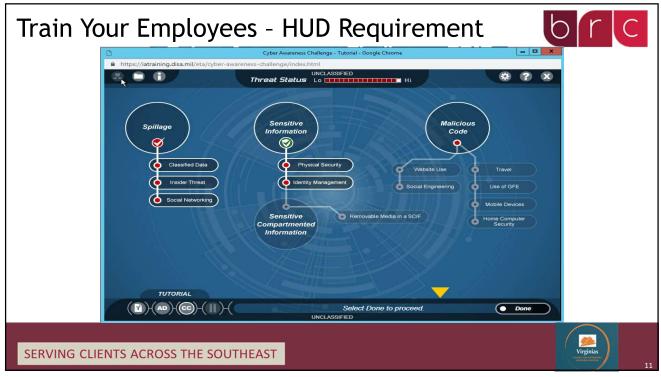
- Client / Customer data
- Intellectual property
- Physical & Financial Assets
- Payroll information
- Bank account information Corporate information

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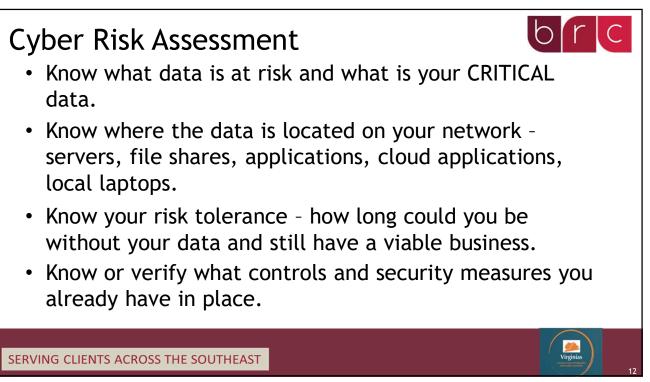
Data at Ri	sk -	brc
From the HB-2-3560 MFH ASSET M	AANAGEMENT H	IANDBOOK
Tenant Data: Composition of Family Tenant/Family/Elderly/Handicapped Unit-Size Eligibility Last Verified Income RA: Section 8 Voucher: Current Security Deposit:	as of	
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Train Your Employees - HUD Requirement From the HUD Website: The CyberAwareness Training described above is the same training required for those individuals who transmit TRACS files. If the training has been completed to satisfy TRACS security training requirements, this will satisfy EIV security training requirements as well so long as the completion date represented on the Certificate of Completion is not older than one year. To complete online FREE Security Awareness Training: ٠ Open your web browser. https://iase.disa.mil/eta/Pages/online-catalog.aspx https://iatraining.disa.mil/eta/cyber-awareness-challenge/launchPage.htm Press Enter. This should open to the new CyberAwareness Challenge (unclassified) 2019. Choose Start/Continue CyberAwareness Challenge Department of Defense Version Proceed with the training. SERVING CLIENTS ACROSS THE SOUTHEAST







NIST Cybersecurity Framework	brc
What processes and assets need protection	Identify
What safeguards are available	Protect
What techniques can identify incidents	Detect
What techniques can minimize the impact of incidents	Respond
What techniques can help us recover	Recover
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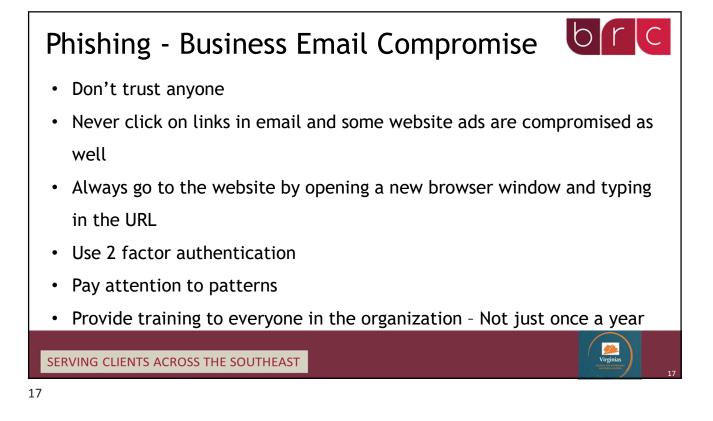








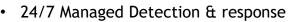
Phishing Red Flags • From The list contains different parts of an email • To that contain clues that will indicate the email Date is a phishing attempt. The seven slides that follow will detail the clues you need to look Subject for. Attachments Remember: If it seems weird, or doesn't Content make sense, STOP and think about the situation. • Hyperlinks SERVING CLIENTS ACROSS THE SOUTHEAST





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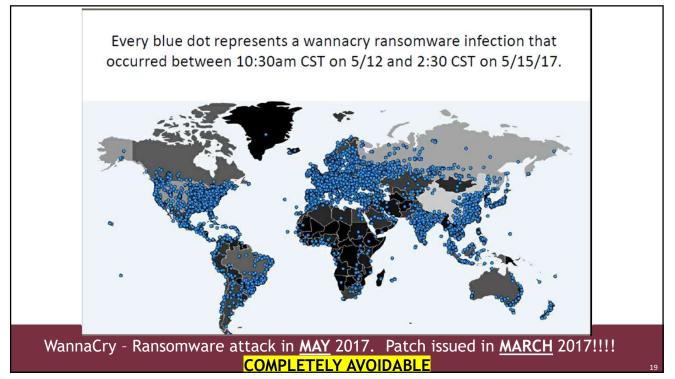
Network Security Monitoring



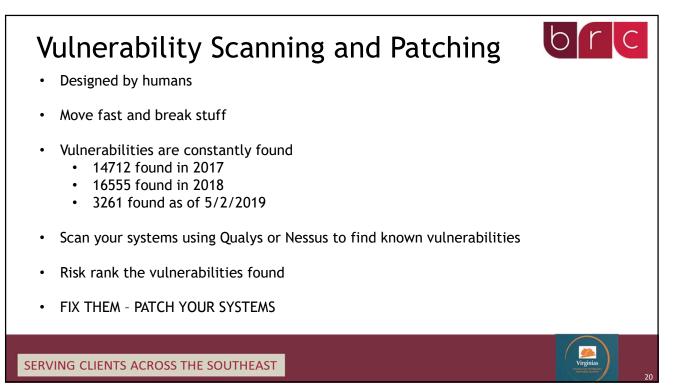
- Continuously monitor your cyber assets to detect threats and vulnerabilities which may have bypassed other security controls
- Real-time threat intelligence
- User behavior analytics
- Monitored SIEM
- Monitored Firewall



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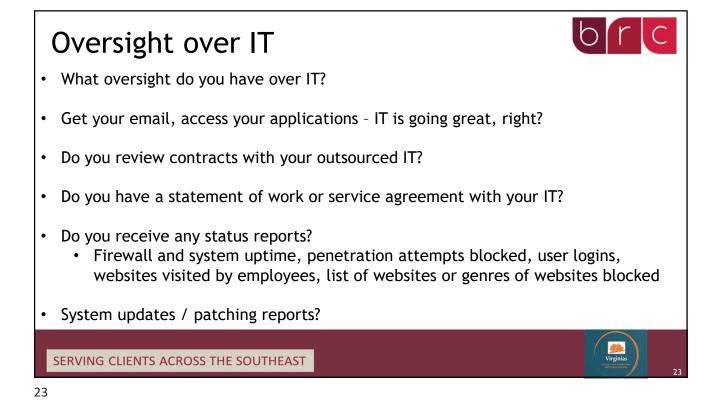




Vulnerabilities Total			1580 (+2	216) 🚹 Sec	curity Risk (Avg)			4.9
by Status								
Status	Confi	rmed	F	Potential		Total		
New		1306		-		1306		
Active		274		-		274		
Re-Opened		0				0		
Total		1580				1580		
Fixed		8		-		8		_
Changed		1314		-		1314		
by Severity								
Severity	Confirmed	(Trend)	Potential	(Trend)	Information Gathered	Total	(Trend)	
5	677	(0) -	-	500 10		677	(+115)	
4	903	(0) -	-		-	903	(+101)	
3	0	(0) -	7 .1		T _1	0	(0) -	
2	0	(0) -	-		-	0	(0) -	
1	0	(0) -	-		-	0	(0) -	
Total	1580	(0) -	-		-	1580	(+216) 🚺	
5 Biggest Categories								
Category	Confirmed	(Trend)	Potential	(Trend)	Information Gathered	Total	(Trend)	
	941	(0) -	-	(bita)		941	(+155)	1



Vul	nera	bili	ty So	an	Repo	rt	S					b	C
IP • DNS	v NetBIOS v			QID 💌 Title						QC - SSL			* Vendor Referen
		Windows 2008 R2 Standard Service Pack	host scanned, found vuln		dding Oracle Attack Information re Vulnerability (POODLE)	Vuln	3	1433 to	p	overss	I CVE-2014-3566		POODLE
		Windows 2008 R2 Standard Service Pack	host scanned, found vuln		t SQL Server Database Link Crawling d Execution - Zero Day	Practice	3						
		Jbuntu / Fedora / Tiny Core Linux / Linux 3.x	host scanned, found vuln	70008 NetBIOS	Name Conflict Vulnerability	Vuln	3				CVE-2000-0673		MS00-047
		Jbuntu / Fedora / Tiny	host scanned, found vuln	70009 NetBIOS	Release Vulnerability	Vuln	3				CVE-2000-0673		MS00-047
Threat		Impact			Solution				2	- Exploita	bility		Associated Malwar
The SSL protocol 3.0 design error, uses An attacker who can take a man-in-the-middle (MitM nondeterministic CBC padding, which makes it easier for man-in-the-middle attacks. to encrypted communication between a client and Microsoft SQL Server is exposed to a remote command secution vulnerability. obtain a client and secution vulnerability. cotain cotain client and secution vulnerability. cotain									Metasploit ce:CVE-2014-3566 ion:HTTP SSL/TLS Version Qualys ce:CVE-0000-0000 ion:Microsoft SQL Server -				
A malicious user can send a NetBIOS Name Conflict If successfully exploited, this vulnerability could receiving machine is not in the process of registering its all NetBIOS functionality.				d The best workaround for Microsoft Windows and Samba Server is to block all incoming traffic from the Internet to UDP ports 137 and 138.						The Exploit-DB ce:CVE-2000-0673 ion:Microsoft Windows N			
A malicious user can send a NetBIOS Release message If successfully exploited to a NetBIOS name service. forced to place its name longer be able to use it.			ploited, the receiving s name in conflict so t		This is the correct protocol for Microsoft Windows and	s is the correct protocol behavior. The best workaround Microsoft Windows and Samba servers is to block all oming traffic from the Internet to UDP ports 137 and							
A vulnerability in the Secure Soc			souther		g Patch:					Source:	The Exploit-DB	Virgin Virgin	ias





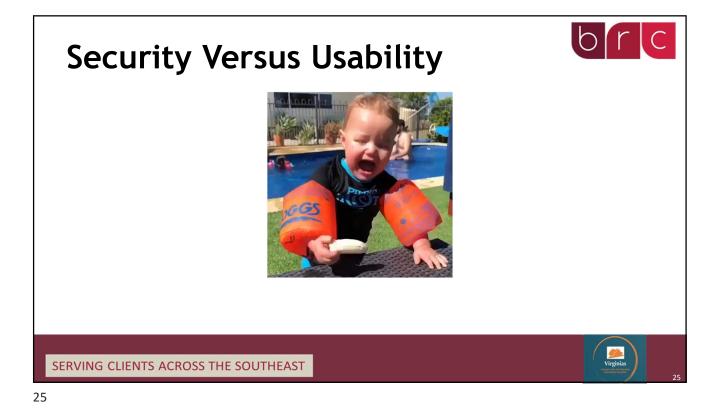
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What to do when there is a breach

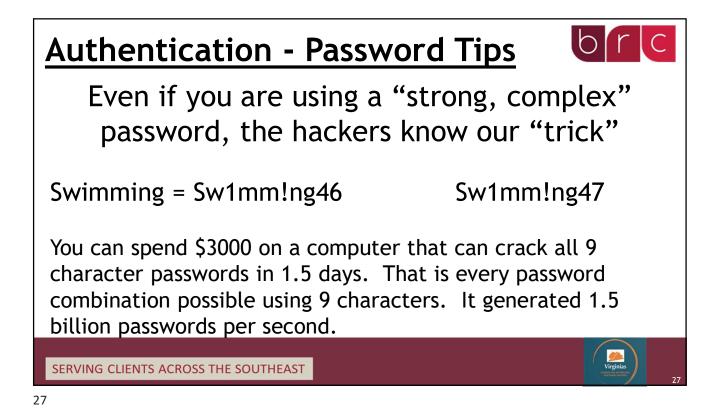
- Consult with an attorney!
- Mitigate the damage shut down ports so data stops flowing out, turn off servers, take them offline, etc.
- Identify the data accessed and retrieve it or prevent its spread.
- Communicate but control the vocabulary. Customers want to hear about your breach from you, not the news.
- Patch the point of entry.
- Bring in an outside forensic investigation team.
- Attorney's and forensic teams can be expensive, but so can the fines and continued data loss without them.

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Authentication - Password Tips

Per NIST - passphrases are now recommended.

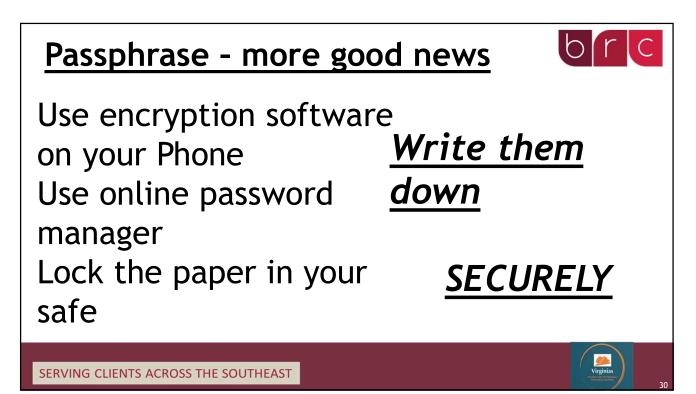
Minimum Length = 10 characters, but NIST is asking for companies to allow up to 64 characters. The <u>longer</u> the better.

No longer recommended to change your password every 30 or 90 days. Change your password when you think it has been compromised.

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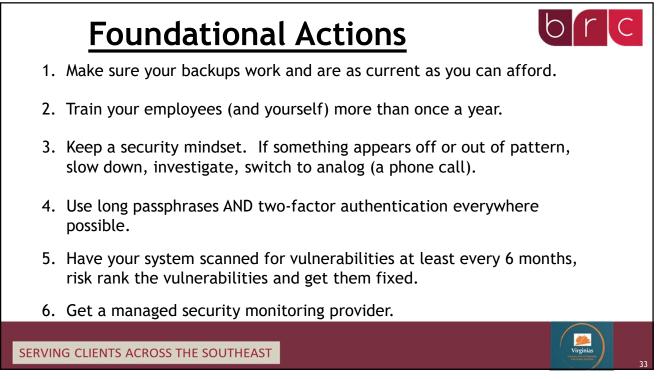






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Objectives

- Understand that cybersecurity is for everyone and should become a habit
- Understand why we should care about cybersecurity and the data that is at risk
- Understand why we should train our employees
- Understand why we should have a cyber risk assessment annually
- Understand the ransomware risk
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