



RELIABLE IT
HEALTHCARE

Doing IT Right!

Doing Security Right!

Security is No Longer an Option

Or Start Planning for Downtime



State of the Union

- Security Risk Assessments that work
- Defending against Ransomware Attacks
- Disaster Recovery and Business Continuity – the silent issue
- Logging and Identification Tools

Security Risk Assessments

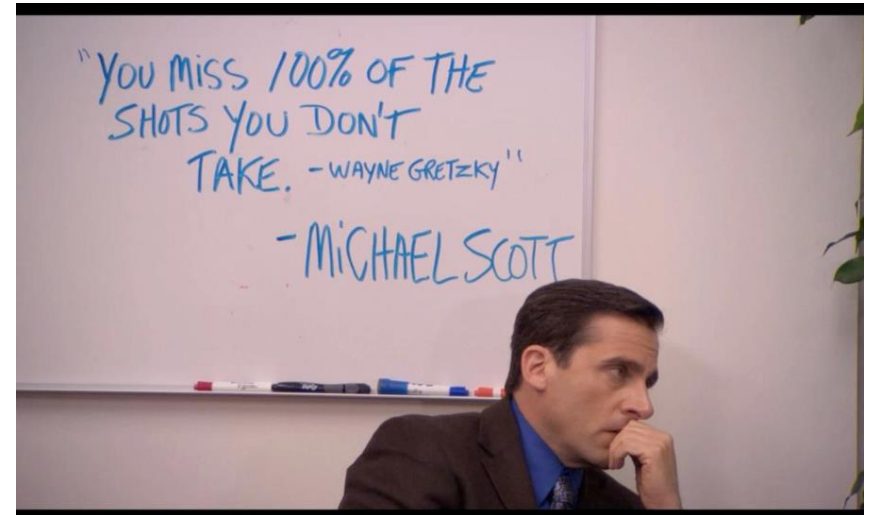
Security Risk Assessments

- Make sure you are doing them every year with an outside firm.
- Make sure your Assessment includes a Penetration Test. - Ethical Hacking
- Implement a Security Awareness Program and HIPAA Compliance Plan



Security Risk Assessments

- Biggest Issue we see with Assessments
 - Compliancy and Non-Action



Security Risk Assessments

- Biggest Issue we see with Assessments
 - We have been able to breach 50% of the clients that we have done Risk Assessments for in 2019



Complacency vs Contentment

Security Risk Assessments

- Biggest Issue we see with Assessments
 - We have been able to breach 80% of the clients that we have done Risk Assessments for in 2020



Complacency vs Contentment

Ransomware

Ransomware





• Ransomware and its changing strategies

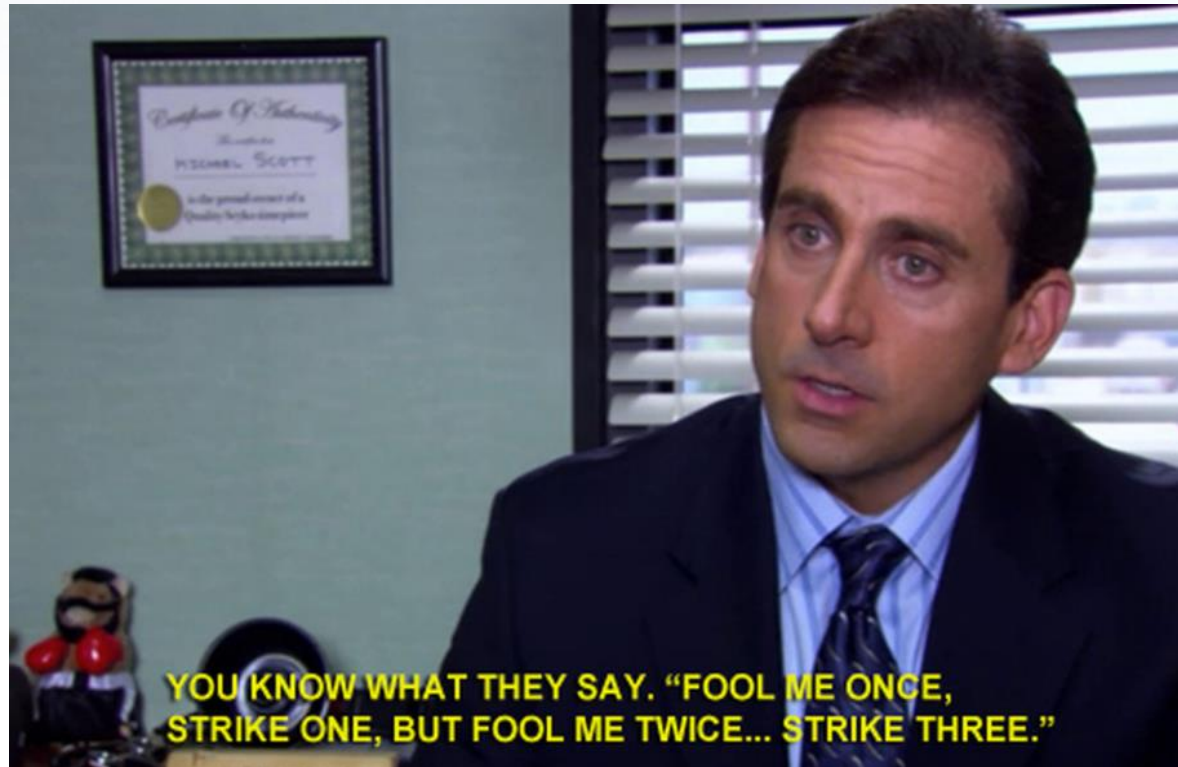
- Exfiltrate data, then encrypt (using better encryption than in the past):
 - Maze—adds ransoming to prevent leaking private data (Xerox).
 - ProLock—ransom to prevent leaking private data.
- RDoS (Ransom Denial of Service):
 - Claiming to be Fancy Bear, demanding payment in bitcoin.
- Other industries' attacks – attacking Availability of systems:
 - Garmin – Pilot and InReach services taken down, life-threatening.
 - Honda – forced to shut down factories in several countries.
- Attacks are on the rise, are more targeted, recovery costs increasing.



INTERNET TOUGH GUY



Ransomware



Google Search

www.hackerone.com › blog › 100-hacking-tools-and-r... ▼

[100 Hacking Tools and Resources | HackerOne](#)

May 29, 2020 - Burp Suite: The quintessential web app **hacking tool**. Once you hit 500 reputation on HackerOne, you are eligible for a free 3-month license of ...

www.guru99.com › learn-everything-about-ethical-hac... ▼

traffic (us): 290/mo - keywords: 199

[Top 20 Ethical Hacking Tools in 2020 - Guru99](#)

6 days ago - **Hacking Tools** are computer programs and scripts that help you find and exploit weaknesses in computer systems, web applications, servers and networks. There are a variety of such **hack tools** available in the market. Some of them are open source while others are commercial solution.

? What are Hacking Tools? ▼

Is it Legal to use Hacking Tools? ▼

www.concise-courses.com › hacking-tools › top-ten ▼

traffic (us): 2100/mo - keywords: 371

[Best Hacker Tools of 2020! – Hacking Tools | Growth Hackers](#)

Hack Tools Listed On This Page: Sn1per; John The Ripper; THC Hydra; Cain & Abel; Metasploit. Maltego; OWASP ZED; Wireshark ...

[Password Hacking Tools](#) · [Wireless Hacking Tools](#) · [Web Browser Hacking Tools](#)

www.darknet.org.uk › category › hacking-tools ▼

traffic (us): 220/mo - keywords: 133

[Hacking Tools - Best of 2020 - Darknet](#)

Hacking Tools are pieces of software or programs created to help you with hacking or that users can utilise for hacking purposes. Examples include Wep0ff ...

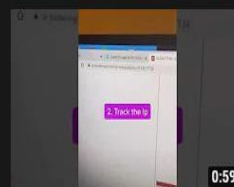
[Cameradar - Hack RTSP ...](#) · [Judas DNS – Nameserver ...](#) · [Cain And Abel Download](#)



DDoS Attack Explained

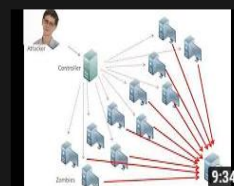
PowerCert Animated Videos • 484K views • 2 years ago

A VPN protects against a DDoS attack. Get the VPN that I personally use.
<https://nordvpn.com/powercert> (affiliate) 70% off a ...



How to DDoS someone

Matthew Cassio • 22K views • 4 months ago



How a DDoS Attack works and How to stop it

AccordRacer • 272K views • 5 years ago

How a DDoS Attack works and How to stop it #LizardSquad #psndown #XboxLiveDown Twitter -
<https://twitter.com/accordracer>.



How To Detect A DDoS Attack On Your Network! - Wireshark Tutorial

Huncho • 100K views • 3 years ago

OPEN Tutorial on how to use the well-known network analysing tool Wireshark to detect a Denial of Service attack, or any ...



How To Perform DOS Attack | Crash Any Website | Full Practical #hacking

DAILY HIJACKS • 31K views • 1 year ago

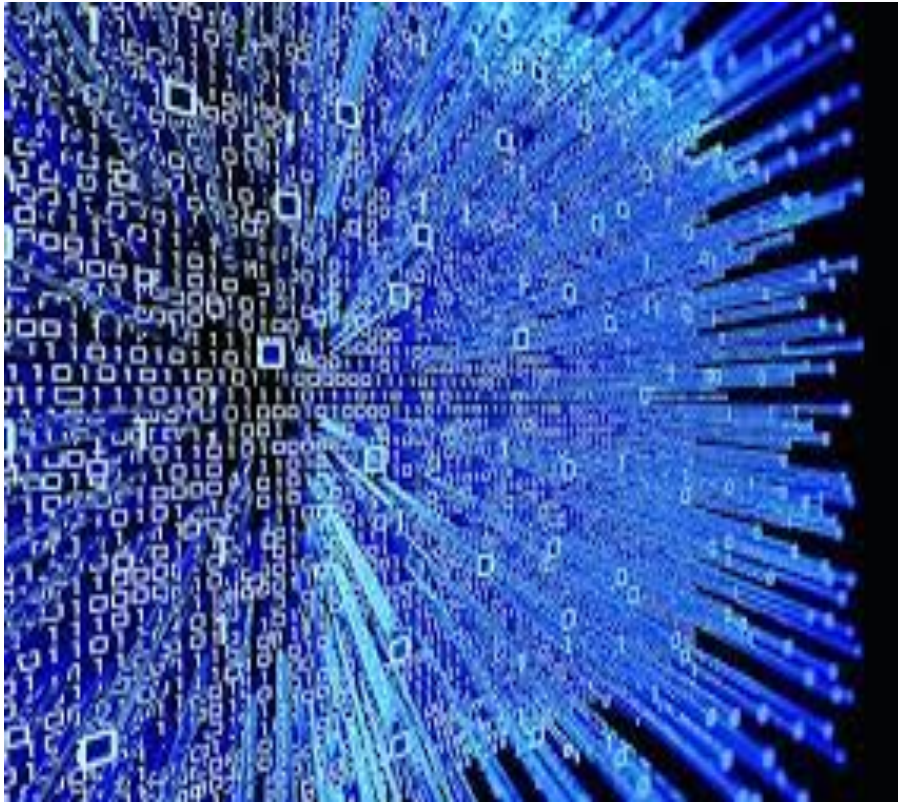
JOIN US ON WHATSAPP TELEGRAM FACEBOOK AND INSTAGRAM whatsapp grp 1 ...

Disaster Recovery and Business Continuity – the silent issue

Disaster Recovery and Business Continuity – the silent issue



Disaster Recovery and Business Continuity – the silent issue



Security in Medical Practices

Data Centers



Data Centers



Medical Practice

- Issues: Physician group was concerned with the amount of Phishing attacks they been getting and wonder if they have been compromised?
- Issues: How do they know for sure?

Requirements

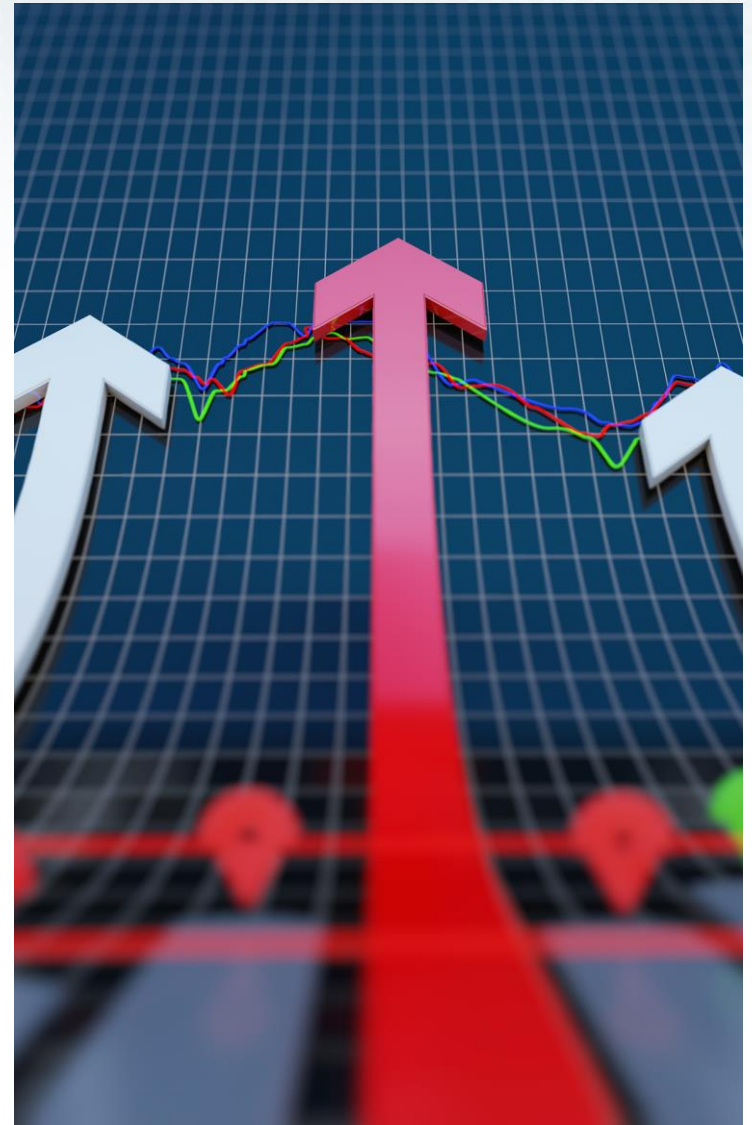
- Restrict Access to PHI
- Monitor how PHI is communicated
- Ensure the integrity of PHI in Transit
- Ensure the integrity of PHI at rest
- Ensure 100% message accountability
- Two Factor
- Encryption

Microsoft365

Logging and Identification

5 Layers of Defense

- ✓ Using Microsoft Security Tools
 - ✓ [Microsoft Security Tools](#)
 - ✓ [Microsoft Secure Score](#)
 - ✓ [Microsoft Security Center](#)
 - ✓ [Microsoft SIEM and XDR](#)
 - ✓ [Microsoft Compliance](#)



5 Layers of Defense

- 1st Layer of Defense
 - Spam Filtering w/AV
 - Antivirus
 - Security Awareness Training, Dark Web Scan, Phishing
 - Identity Management - 2FA
 - Onsite Backup
- 2nd Layer of Defense –BAMP
 - Backup (Ransomware Proof)
 - Antivirus (Artificial Intelligence AV Driven Tool – Ransomware Proof)
 - Monitoring
 - Patch Management
- 3rd Layer of Defense –SIEM
 - Security Information Event Management (SIEM) and/or Threat Detector
 - Managed FW with IDS/IPS and Web Filtering
- 4th Layer of Defense – Test and Assess
 - Yearly Security Risk Assessment w/ PEN Test
- 5th Layer of Defense
 - Business Continuity and Disaster Recovery Solution

5 Layers of Defense

- 1st Layer of Defense
 - Spam Filtering w/AV – Microsoft365
 - Antivirus - Webroot
 - Security Awareness Training, Dark Web Scan, Phishing - BreachSecureNow
 - Identity Management - 2FA – Microsoft365
 - Onsite Backup – Veeam or Kaseya
 - Security Policy's -
- 2nd Line of Defense –BAMP
 - Backup (Ransomware Proof) - Kaseya
 - Antivirus (Artificial Intelligence AV Driven Tool) – Cylance or Deep Instinct
 - Monitoring – Kaseya, Lionguard, Auvik
 - Patch Management – Kaseya
- 3rd Line of Defense –SIEM
 - Security Information Event Management (SIEM) and/or Threat Detector – Netsurion and Microsoft365
 - Managed FW with IDS/IPS and Web Filtering - Fortinet
- 4th Line of Defense – Test and Assess
 - Yearly Security Risk Assessment w/ PEN Test – Security MSP
- 5th Line of Defense
 - Business Continuity and Disaster Recovery Solution – Microsoft Azure

Welcome to SKYNET





Q&A