Can I Be Hacked?

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Introductions

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SO……CAN I BE HACKED?

YES!!!!

Why Us?

- Confidential Information Treasure Trove
  - (SSN, Direct Deposit Information, Credit Cards)
- High Bandwidth
- Overworked/Understaffed IT Staff
- Wire Transfers
- For Fun!!

Some Scary Stats

Source:http://wincom.blob.core.windows.net/documents/Win-Defender-ATP_infographic.pdf

More Scary Stats

MALWARE & VULNERABILITIES
are not the only thing to worry about

46%

of compromised systems had **no malware** on them

99.9%

of exploited Vulnerabilities were used **more than a year after** the CVE was published

FAST PHISHING ATTACKS
give you little time to react

23%

of recipients **opened phishing messages** (11% clicked on attachments)

50%

of those who open and click attachments do so **within the first hour**

Source:http://wincom.blob.core.windows.net/documents/Win-Defender-ATP_infographic.pdf

DISTRICT #113 “HACK STORY”

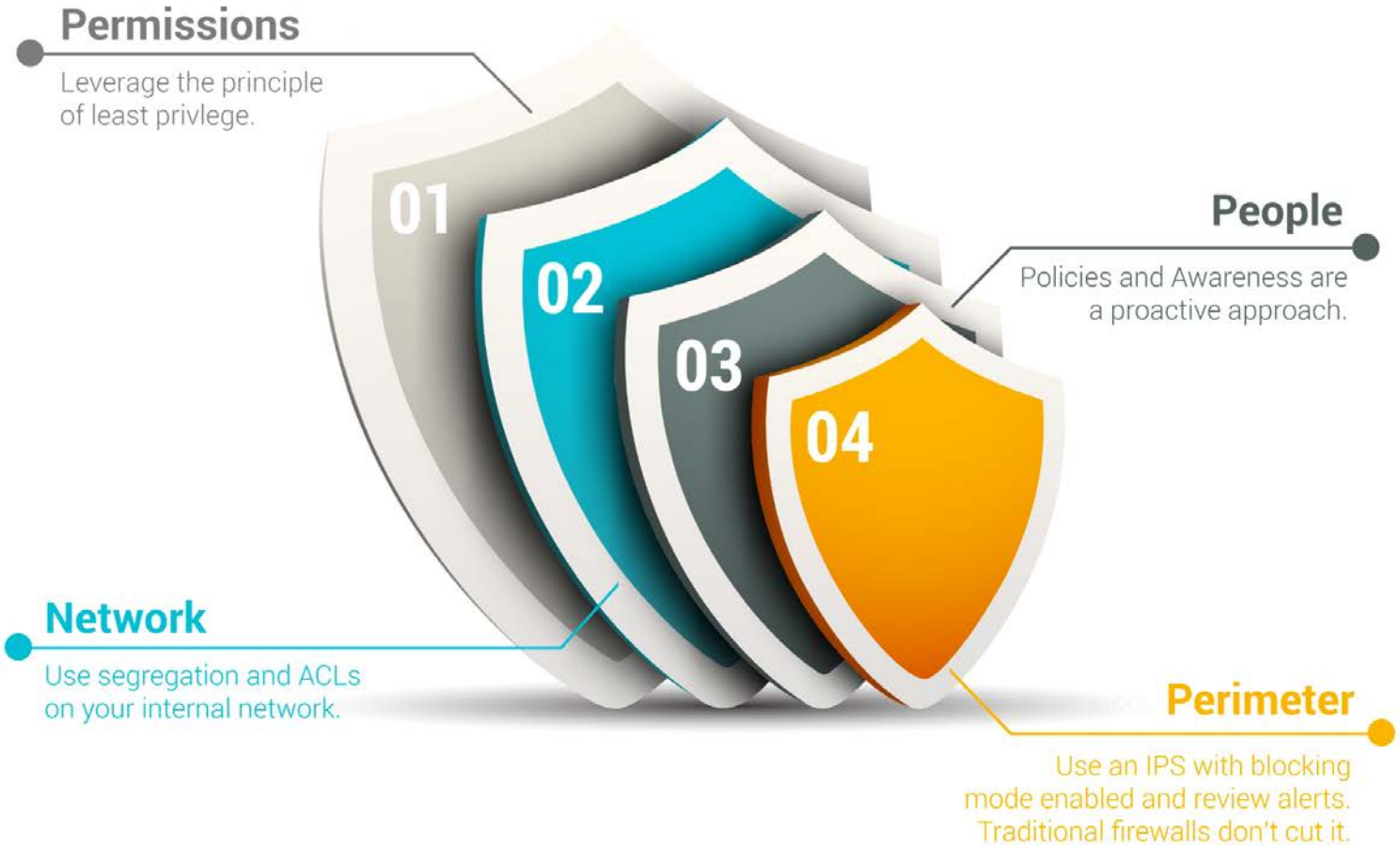
- W-2’s stored on third party server
- Server hacked to gather SS#, DOB, Address and other information
- Hackers filed false Tax Returns for many employees
- Team went into action
  - Alerted CLIC/Insurance and we had coverage
  - They assigned a great company to assist with process
  - Political plan with staff
  - Legal responsibilities
  - Follow up with 1 year of protection (Experian) by law
  - Worked with Local authorities and the FBI
- What did we learn?
  - Ron is Awesome and Knows his stuff
  - Board found new respect for security
  - Funding for outside third party Security audit
  - Policy changes
  - Have some “teeth” when questioned on security… Let me tell you WHY you need to change your password and why we have dual authentication

The top 8 - 2018 cybersecurity threats:

- Cybercrime
- Fraud
- DDoS
- Ransomware
- Business Email Compromise
- Jihadist Cyber Threats
- Hacktivism
- Nation-State Threats

SO WHAT CAN I DO?

Defense in Depth



Defense

- No Silver Bullet
  - Multiple Levels of Security
  - From the “Firewall” in
- Personal Level
  - Double authentication on all email accounts
  - Credit card alerts on all transactions
  - Alerts set up on your checking accounts
  - Change passwords regularly
  - Put a STOP on your Credit

Perimeter

- Nextgen Firewalls
- Intrusion Prevention System
- Vulnerability Scanning
- Pen Test
- VPN Security

People

- Policies
  - AUP
  - IT Specific (Backup, Patching…etc)
- Plans
  - Incident Response Plan
  - Disaster Recover Plan
- Training
  - Set up regular session
  - Make it part of the “on boarding” for new employees
- Multifactor Authentication (MFA)

Network

- SIEM (Security Information and Event Management)
- Post Preach Detection
- Hard Drive Encryption
- Client Firewalls
- Client Anti-Malware
- ACL/Segmentation

Permission

- Principle of Least Privilege
  - If they don't need it…..don't give it
- Get it into POLICY by your Board and supported by your insurance and auditors
- Run checks and balances quarterly
  - IE… payroll on Technology/Accounting
  - Review servers and file privileges
  - Review Log on files/history

Organization

- InfoSec is everyone's priority not just IT
- Division of Duties
  - IT/Security Independence
- 3rd Party Vendors
  - Right to Audit
- Security Audit
- Compliance (PCI, HIPPA..etc)

Security vs Usability

Security vs Usability

- Security Doesn’t mean…

It’s not if you will be Hacked….

It is When!!!

Common Hacks to Schools

- The Superintendent email to accounting to ACH funds
- Email to staff asking to change passwords
- Sharing of Pcards… have a policy
- Lost laptop with data/information

Questions and Answers

We thank you for your time!

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