

# *Security for the Win!*

## *Security tips & successes for every budget*

February 20, 2019



T4gdenver.org

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### Introductions

- Sponsors-- Flexcentral presentation (Matt Keiller)
  - Formerly Viawest -- 5 data centers
  - Colocation, cloud, professional services, managed services, hosting services
  - Merged with Peak10, based in Southeast
  - 21 markets, 41 data centers
  - Power bank gifts at the end
- Social media checkin-- #t4gdenver
- Visit t4gdenver.org for next forum info
- Please complete survey

### Presenters

#### Art Gamino

Art Gamino, of Optimum Networking, is a contributor to Principles & Practices for Nonprofit Excellence in Colorado 4th Edition and talk about IT Policies and Procedures that are affordable to implement and help move to your mission.

- Professional services company
- Align IT with the business to protect the integrity of your data
- IT layers
  - Human-- security awareness training, online/computer based
  - Workstation
    - antivirus (webru?)
    - auto updates (Windows patching)
    - software updates (Adobe, Java) complete releases automatically and test applicability
    - Strong passwords-- NIST standards, now not as frequently, 12 character pass phrases are more effective
    - Hard disk encryption-- Windows 10 bit-locker (free)

### Sponsors



UkuuPeople



- Server
  - Continuously updated
  - Domain policies (password management, Office 365)-- free
    - Lockout policy-- stops lots of infiltrations
    - Complex password rules--
    - Password history reqs
    - Access control-- Active directory server
  - Separation of privileged accounts-- separate administrator accounts from standard user accounts (required for some regulatory firms)
  - Active monitoring-- patches needed, performance, storage capacity
  - Access > Protect > Monitor
    - Know how IT is monitoring the business
    - Know where your data lives
- Firewall layer
  - Geographic IP blocking-- don't allow IPs from other countries
  - Inbound/outbound policies
  - Intrusion detection/prevention
  - Anti-malware/anti-spam, Anti-virus
  - Continuous updates-- review for patches and updates
  - Separate network from the public internet behind firewall
  - Penetration testing-- independent 3rd party
- IT policies
  - Have governing narratives for acceptable use, incident response, cybersecurity
  - Living documents reviewed yearly
- Security and risk reviews
- Backups-- local, cloud, file/folder level
  - Must be tested
  - Disaster Recovery/business resiliency-- ransomware, hardware failure
  - No one is safe from cyber attack and could be more likely than natural disasters
- Policy recommendations
  - Colorado security and privacy laws-- Sept 1, 2018
  - Data must be protected and assessed-- PII
- Conclusion
  - Understand and assess the data
  - Password management (free)
  - Patching and antivirus (free)
  - Backups
  - Cloud vs. local data-- Office 365, Google
  - Understand IT policy development
  - Maintenance and monitoring
  - Align vendors with business objectives

## Ray Hutchins

Ray Hutchins is the Managing Partner in CyberSecurity, LLC and brings real-world cyber security experience to light. Ray will be talking about free tools to help nonprofits thrive.

- Cybersecurity for free or low cost
- Why is this important?
  - 300,000 sub-contractors are being methodically targeted by the Chinese for DOD security breaches
  - No mention of cybersecurity in state of the union and counter
  - Money and intellectual property being stolen in vast numbers
  - Ransomware-- very prevalent
- Why do orgs not pursue cybersecurity
  - Time, money, don't understand risk, too small, resources, hassle
  - No data, no compliance issues, no customers demand, don't think they'll be attached, poor leadership/decision-making
- Cybersecurity is a BUSINESS decision, not technical
  - Consider the risk you are willing to take
- Steps
  - Identify the **data** you are responsible for, harm the org reputation and value if you lost it and that became public. Must be evaluated when considering selling or valuing company. Bank look at cybersecurity for loans/collateral.
  - \$150/10 TB-- apricorn encrypted external hard drive. Keep sensitive data on encrypted drive that requires manual code.
  - Global Cyber Alliance-- [globalcyberalliance.org](http://globalcyberalliance.org) - Free program, well vetted, good training
    - GCA and Mastercard-- free Toolkit for small business
    - No technical experience required
    - Operational tools for inventory, passwords, MFA, backups, phishing, viruses
    - Follows good standards
  - Raise the bar-- prevent the automated attacks, low-level attacks by adding simple steps
  - Cybersecurity certification program-- \$7500 small business program
- Book-- Zucked, Waking up to the Facebook Catastrophy, good and important read

## Cara Hart

Cara Hart is the IT Director for the Boys & Girls Clubs of Metro Denver. She will share her hard-fought lessons learned on leveraging the Microsoft Suite and those free and low costs grants from software companies through TechSoup

- Memug meeting-- Microsoft user group, next mtg Feb 22
- Phishing-- social engineering, human level-- must get this right or everything else is irrelevant!
- Ransomware-- Encrypts all your files and charges your money to get them back.
- Boys and Good Club-- IT staff of 3, enterprise Microsoft tools
- What can I afford
  - Cloud services-- MS office 365 and Google GSuite free for nonprofits (email,

- spam filtering, secure file storage, strong passwords requirements, access permissions, backups/redundancy, high level compliance, addl features for company ipads remotely from the cloud (remote install)
- TechSoup donations-- techsoup.org, leverages hardware/software donations from Microsoft, Google, etc. Some things are free/administrative fee. Window server-- get tools for policies, permissions, active directory group policy, push out to all workstations.
  - System center-- search rather than browse on TechSoup, installs all programs
  - Virus and malware programs-- \$4/seat approx
  - Cisco firewall appliances-- box that handles the bad traffic from the Internet, \$100
  - From the audience-- See Adobe for some low cost software for Acrobat pro (perpetual license). Photoshop elements. Creative cloud membership discount.
  - Hardware, projectors
- Set up users on each workstation that limit access-- can't install software, can't run executables
- Volunteers-- Need to do community service (schools, scouts, business requirements)
- Keep users from doing dangerous things
  - Group policies-- keep users from logging in, changing settings
  - Firewall-- Block websites, downloading files, block traffic
  - Local user settings-- manual, have a password, prevent settings
  - Education/training-- importance of passwords, legal, loss of donations/funding, no post its, keep private data off of personal devices

## Q&A

- Remote/on the go employees
  - Organization issued assets-- should have all protection, system controls regardless of location. Firewall in house with point-to-point VPN connections for 100% remote employees.
  - Policies for employees-- mobile device policies, what data is allowed, secure connections
  - Bitlocker on mobile devices and passwords
  - Bring your own devices-- ability to remotely data (MDM), office 365 allows remote wipe
  - Education-- families using company devices,
- Require policies to be read-- signature, reinforced by management, annual reviews, policy management software (deadlines), ok for liability. Starts with company leadership, policies must be signed off by leadership, include responsibility for enforcement of policies.
- Senior leaders should be tested for phishing more than once a month (once a week at minimum)
- Tests are competitive and open/safe, becomes part of the culture
- Lock your workstation when walking away, leave a note that they are vulnerable (peer pressure), enable in group policies
- Bitlocker-- doesn't require additional login, encrypts hard drive, logon decrypts and can be attached to active directory, keys stored in active directory. Prevents removing hard drive and loading on another computer

- Slack/IM-- security concerns? Encrypted channels in Slack (not in free version), MS Teams-- audit and set policies for data transmission, prevents SSN transmission
- OneDrive for business for file storage
- Insist on usage of specific software usage (Dropbox, Google Drive)-- specify in cyber risk policy, consider employees that leave/are separated
- Identify location of data in cyber risk policy and vendors that have access to data
  - Review terms of service
  - Have vendor agreements-- risk management, ask for SOC reports, certification of their cybersecurity
- Multifactor authentication-- phishing attempts, free using apps (MS Authenticator, app pass) or texts, protects if someone's password gets stolen.
- Help the users to understand??
  - Talk to them about their own bank account
    - Online banking-- 2FA, no wire transferred except in person, automatic notifications

## Prizes

- Free security assessment from Optimum
- Amazon
- Power banks

## Tools & Resources

Check our Tech4Good Facebook page and website for great resources from today's forum!

## Please Take Our Event Survey!

<https://t4gdenver.org/forumsurvey/>

## Next Event - Details TBD

Details will be posted to the website and Facebook page as they become available!

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