



# CYBERSECURITY

Safeguarding Your Operations: Key  
Cybersecurity Practices



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Simple. Sincere. Secure. **It's The Winsor Way.**

# COMMON GAPS WE OFTEN SEE.

- **Buying security products (i.e. EDR, SIEM, Backup Software, Firewall, etc) but don't properly configure or manage them**
- **Flat networks in place and don't think about cybersecurity on the shop floor**
- **Lack of Multi Factor Authentication or using it sparingly**
- **Lack of End User Cybersecurity Awareness training**
- **Not carrying Cyber Liability Insurance or minimal coverage**
- **Minimal attention paid to email security**

Many companies are content with their current IT status and assume everything is being taken care of. **Even the best IT teams should have their security posture verified.**

*WRITE THIS DOWN!*



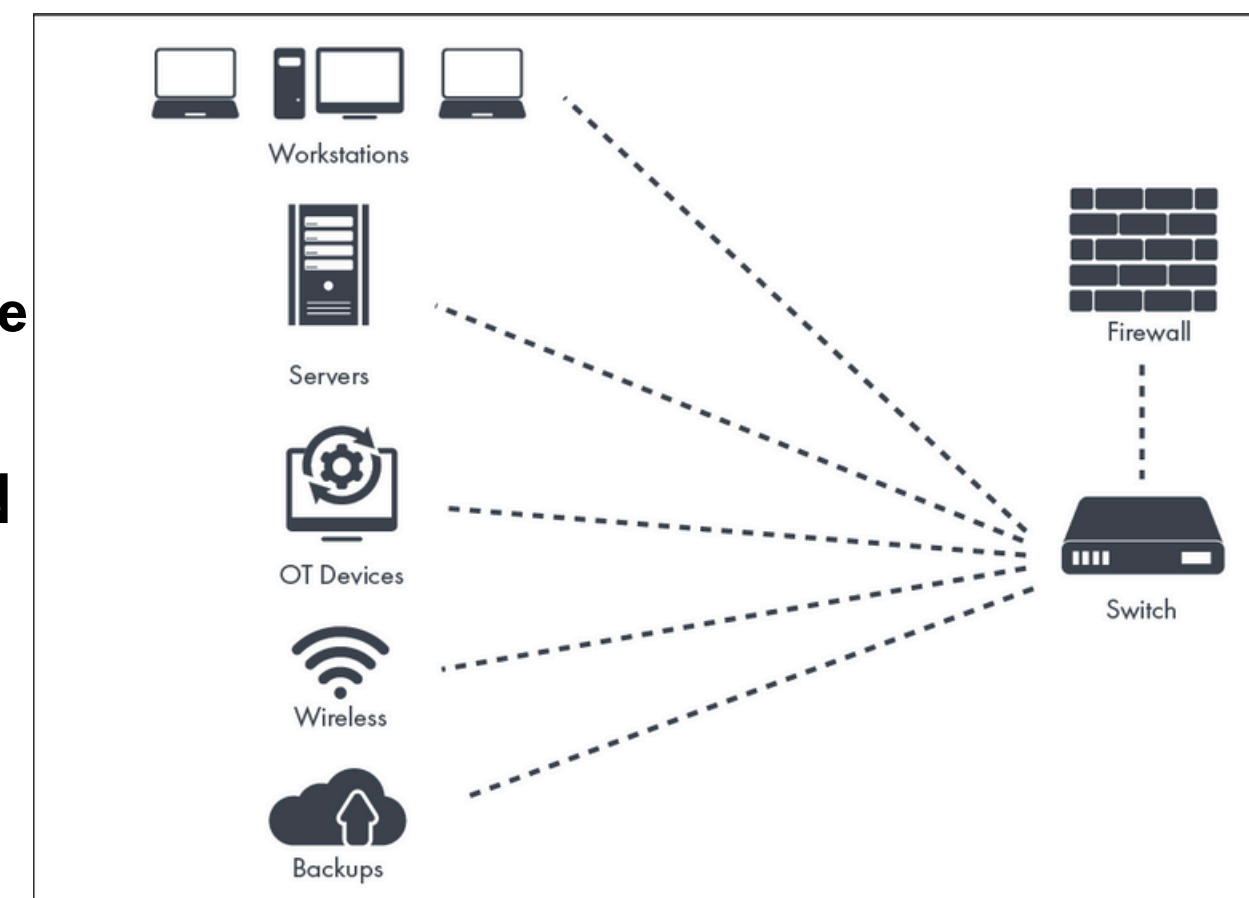
# HOW OFTEN DO YOU THINK ABOUT OT? EXACTLY.

- Operational Technology (OT) environments are often connected to the internet and other internal networks, creating a security risk
- Outdated OT systems lack modern security features, making them easier targets for malicious actors
- The integration of various OT systems and devices can create complex environments that are difficult to secure and monitor, increasing the risk of breaches
- Vulnerabilities in the supply chain, such as compromised third-party software or hardware, can introduce threats to the OT environment
- Inadequate physical security measures can allow unauthorized personnel to access critical OT infrastructure, leading to potential sabotage or theft



# WHY FLAT NETWORKS ARE RISKY FOR MANUFACTURING.

- Flat networks are where an environment is essentially on a single network
  - One breach can more easily spread across the entire network, impacting all systems and machines
  - Operational Technology is typically more outdated and unsupported, meaning that it is more susceptible to an attack
  - Once a threat actor gains access to a machine on the shop floor, the attack can easily spread to the servers, backups, office user's PCs
  - Flat networks make it difficult to identify and contain cyber threats quickly.
- We recommend segmenting your environment to shrink your attack surface



# MULTI-FACTOR AUTHENTICATION & SINGLE SIGN ON:

- **Multi-Factor Authentication (MFA):** Uses two or more authentication methods (something you know, have, or are).
- **Password Vulnerabilities:** Threat actors can guess or steal passwords.
- **MFA on Key Systems:** Ensure MFA is on externally-facing systems (e.g., M365, Google Workspace, VPN).
- **Push Fatigue:** Users may approve false MFA requests due to fatigue.
- **Single Sign-On (SSO):** Simplifies authentication through a centralized platform (e.g., Microsoft Entra), improving security and reducing password reuse.
- **Cost-Effective Security:** Number matching MFA and SSO through Entra are included in many M365 plans, making these enhancements affordable for SMBs.



# THE BIGGEST PROBLEM THAT FEW PEOPLE ARE TALKING ABOUT.

## BUSINESS EMAIL COMPROMISES

BEC is a type of cybercrime where the threat actor uses email to trick someone into sending money or divulging sensitive company information

- Evilginx: Every company's archnemesis
  - Monetary loss: A majority of BEC incidents will lead to a financial loss due to improper financial approvals and controls
  - Insurance: Losses turned into your cyber liability provider will typically lead to rate increases
  - Regulatory and Compliance Issues: BEC incidents can lead to non-compliance with data protection regulations, resulting in hefty fines and damage to the organization's reputation
  - Supply Chain Vulnerabilities: Compromised email accounts can be used to exploit relationships with suppliers and partners, spreading the risk across the entire supply chain
- 
- Create robust Conditional Access Policies within your M365 tenant (included in most M365 plans)
  - Set up alerting from your M365 tenant to alert on items such as impossible travel, Outlook rules being created.
  - Managed Detection Response for
  - Establish strict procedures for approving financial transactions and train and...





**WHEN YOU IMPLEMENT CYBERSECURITY MEASURES BUT DON'T TRAIN EMPLOYEES ON PREVENTING BUSINESS EMAIL COMPROMISES.**





# THE IMPORTANCE OF END USER CYBERSECURITY TRAINING.

**Why? Because your end users are still your biggest threat!**

- With advanced phishing tools being available to anyone for cheap or free, the constant barrage of phishing attempts will not be slowing down any time soon
- **AI & Cyber Threats:** AI complicates phishing, smishing, and vishing.
- **Protecting Assets:** Training safeguards data & systems, like safety training protects physical assets.
- **Preventing Human Error:** Most attacks exploit human mistakes—training reduces risks.
- **Ensuring Compliance:** Cybersecurity training helps meet regulations and avoid fines.
- **Maintaining Operations:** Cyberattacks can cause downtime, disrupting operations.
- **Adapting to Digital Threats:** More connected machinery means greater cybersecurity needs.



We recommend that you implement three end user training facets: **weekly phishing simulations, monthly video training with quizzes, and yearly in-person training**

**Put a policy in place to hold individuals accountable for putting the company's data and money at risk.**



**WRITE THIS  
DOWN!**

# ZERO TRUST.

## TRUSTED DEVICES.

- Zero trust is not a product or service, it is an approach in designing and implementing security principles
  - Always authenticate and authorize
  - Use least privilege (Just-In-Time and Just-Enough-Access concepts)
  - Assume breach
- Don't trust anything or anyone
- Continuous monitoring and validation
- Least privilege
- Device access control
- Microsegmentation
- Lateral movement prevention
- Intune - only corp devices can access assets



# MANUFACTURING RANSOMWARE EVENT

- Illinois Manufacturing company
- The breach occurred when a leadership person clicked on a malicious email
- Every server was encrypted via ransomware and 85% of workstations were encrypted
- Had some backups that were only stored locally and not monitored and managed as they should be
- Running outdated operating systems
- No security toolsets in place and utilized free AV that did not have signature updates being applied
- Flat network
- **Spent a lot of money on the shop floor but not on securing the equipment and infrastructure that supports it**



# COSTS THAT OCCURRED

**\$200k+** in Ransomware paid

**\$100k+** in forensics fees

**\$200k+** in recovery fees

**\$50k+** in legal fees

**\$100k** in new hardware to upgrade

Cyber liability picks up a substantial portion, but the companies were left with paying a fair amount out of pocket.

1 nonrenewed cyber liability insurance policy



# CYBER LIABILITY INSURANCE.

## What factors control premium?

- Industry
- Revenue
- Type & Amount of Data
- Loss History
- IT Controls

**DID YOU KNOW?**

**False statements could lead to your insurance claim being declined**

Travelers Wants Out of Contract With Insured That Allegedly Misrepresented MFA Use  
By Chad Hemenway | July 12, 2022

**CLAIM DENIED**

## Bare Minimum Controls

- MFA for all access
- Offsite (preferably offline) backups
- EDR
- Written plans for patches, updates, vulnerabilities
- Employee Cybersecurity Awareness training

## More attractive requirements for underwriters

- Strong email filtering
- Privileged access management
- EOL software and hardware are segmented off the network with plans to replace
- IR & DR plans

## What are underwriters looking for now

- Password Management
- SIEM
- DLP
- Following a security framework
- Maintain 24/7 SOC



# WHAT CAN MANUFACTURERS DO?

- More companies need to perform periodic security assessments
  - Whether you have internal or outsourced IT
  - Consider continuous vulnerability monitoring
- Talk to your team about how you're using MFA (if at all)
- Change the mindset on Cyber Awareness Training
  - Financially, it's just as important as any other training
- Ask questions, what are we doing to secure our email?



# THANK YOU!!



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