RUSS HORN

Cybersecurity 101

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Disclaimer

A FEW THINGS FIRST

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Evaluate risks before acting based on ideas from this presentation.

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Agenda

HERE'S THE PLAN

- Introduction
- Cyber Attack Story
- Cybersecurity Hot Topics
- Security Best Practices
- ActivityHD ActivWebAPI, Self-Serve, & Aspire Hosting

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Russ Horn

PRESIDENT

CISA, CISSP, CRISC

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CoNetrix
A Family of Technology Companies
AccountingWare.
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Cyber Attack Story
BASED ON A TRUE STORY

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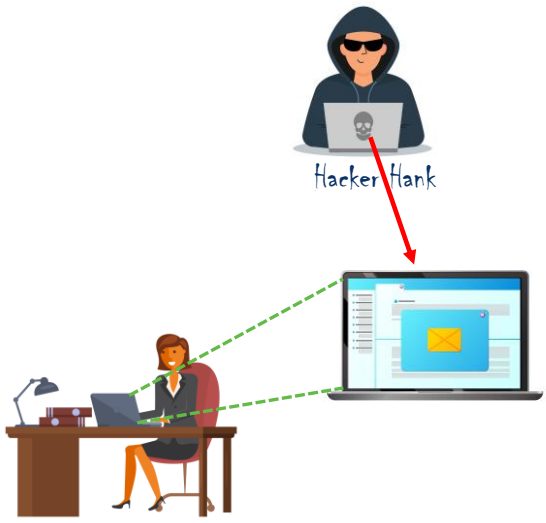

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3 Possible Attacks

1. Drive-by Download Attack
2.
3.

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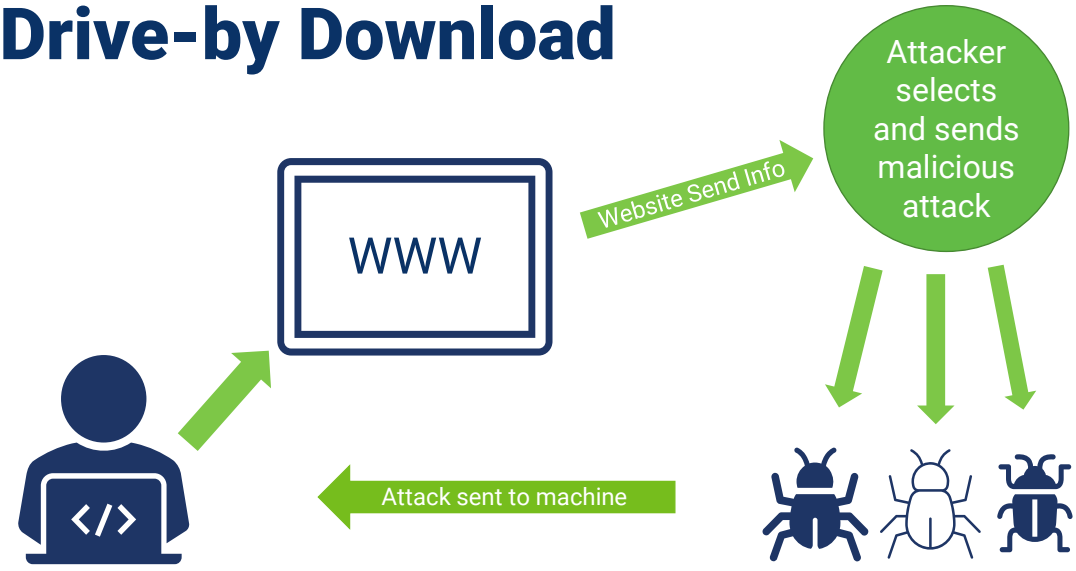
Drive-by Download



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3 Possible Attacks

1. Drive-by Download Attack
2. Compromised Password

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Compromised Password

Guessed Password

Keylogger

Pulled from Known Passwords

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Password Tips

SAMPLE SUBTITLE

1. Don't use the same password.
2. Consider longer passwords.
3. Consider a password vault.
4. Change your password.
5. Use Multi-Factor Authentication.

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Multi-Factor Authentication

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3 Possible Attacks

1. Drive-by Download Attack
2. Compromised Password
3. Phishing Attack

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Phishing Attack

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WHALING

A specific type of phishing that targets the senior executives of an organization.

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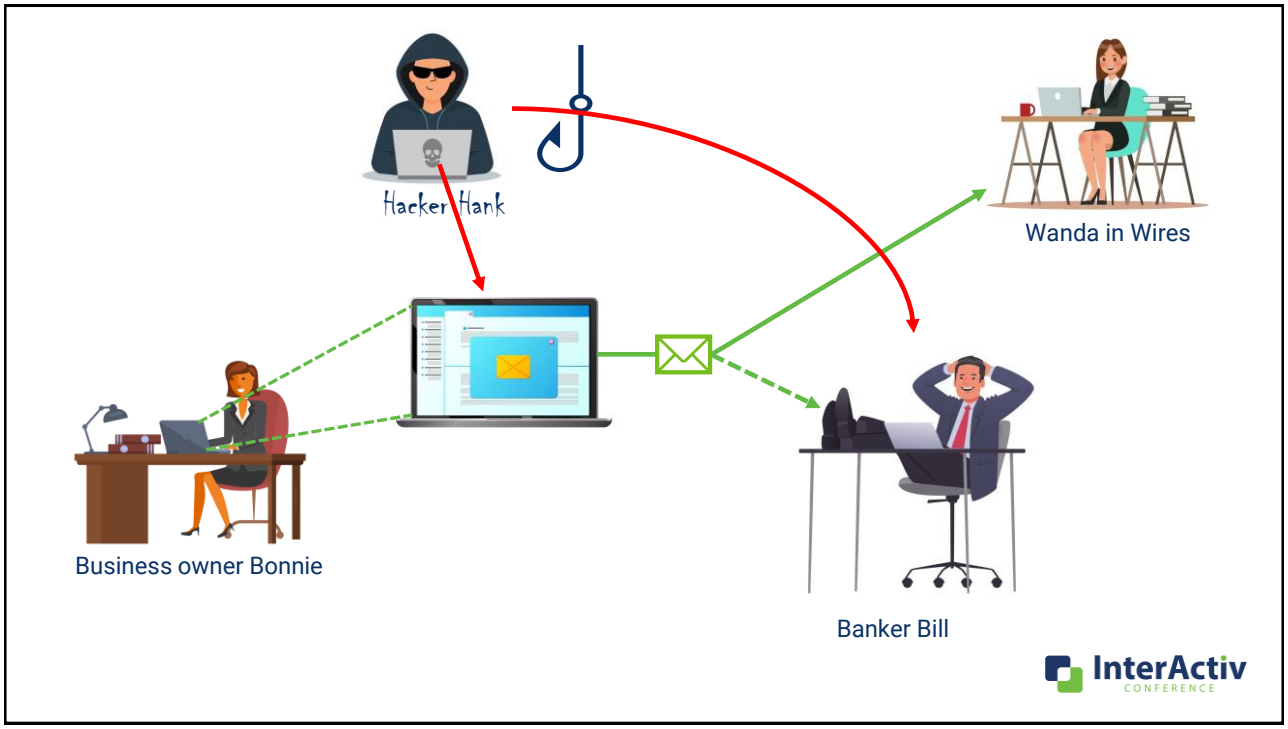

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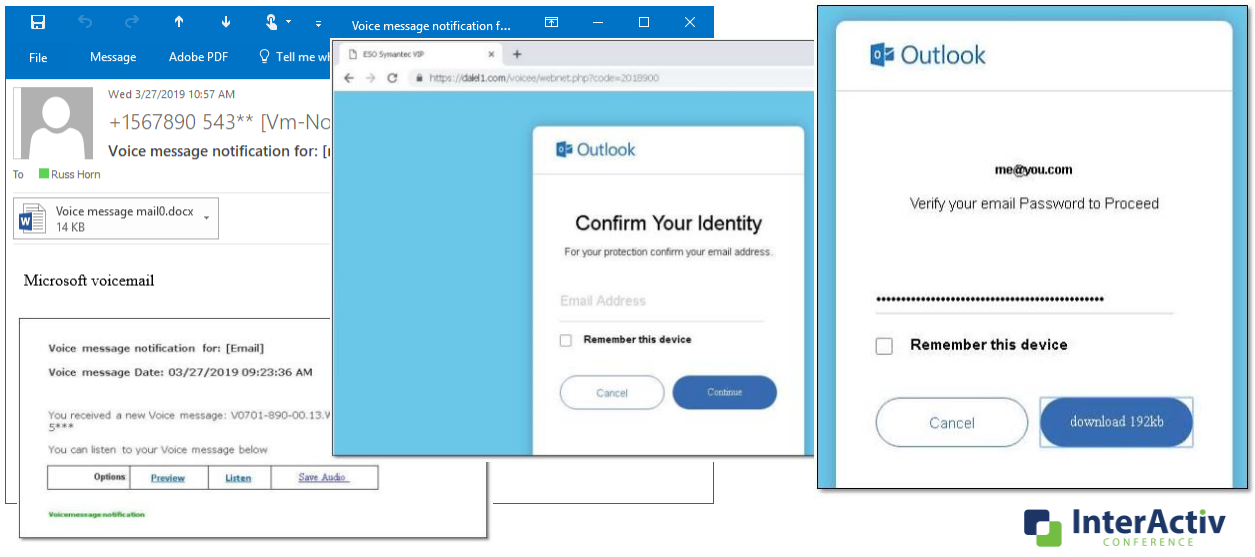
Phishing Attack



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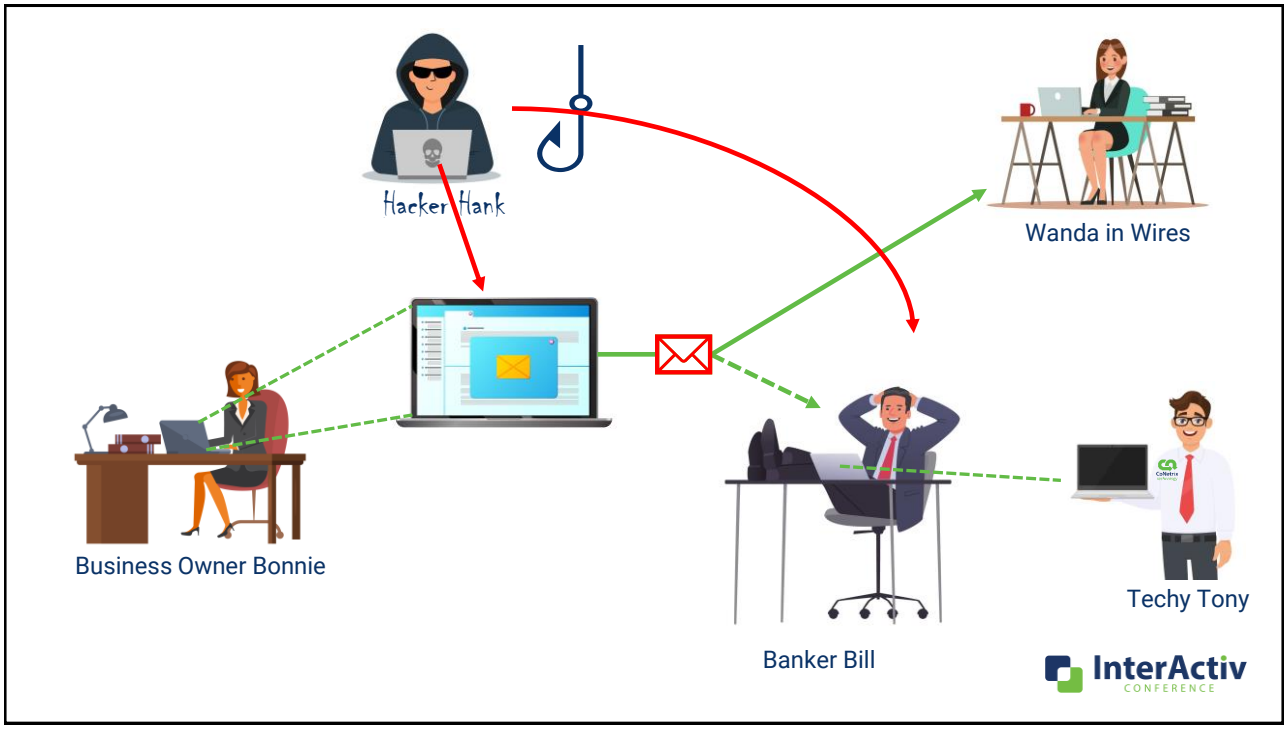
Hacker Hank
Wanda in Wires
Business Owner Bonnie
Techy Tony
Banker Bill
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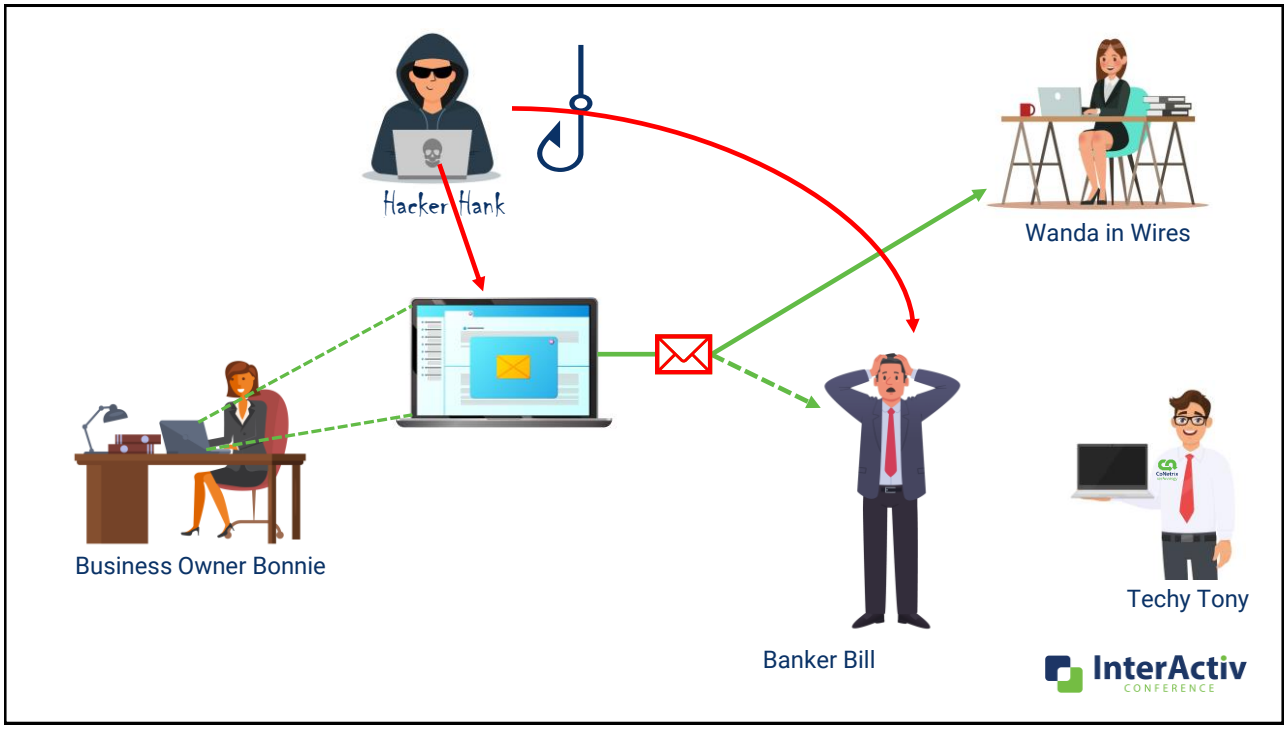
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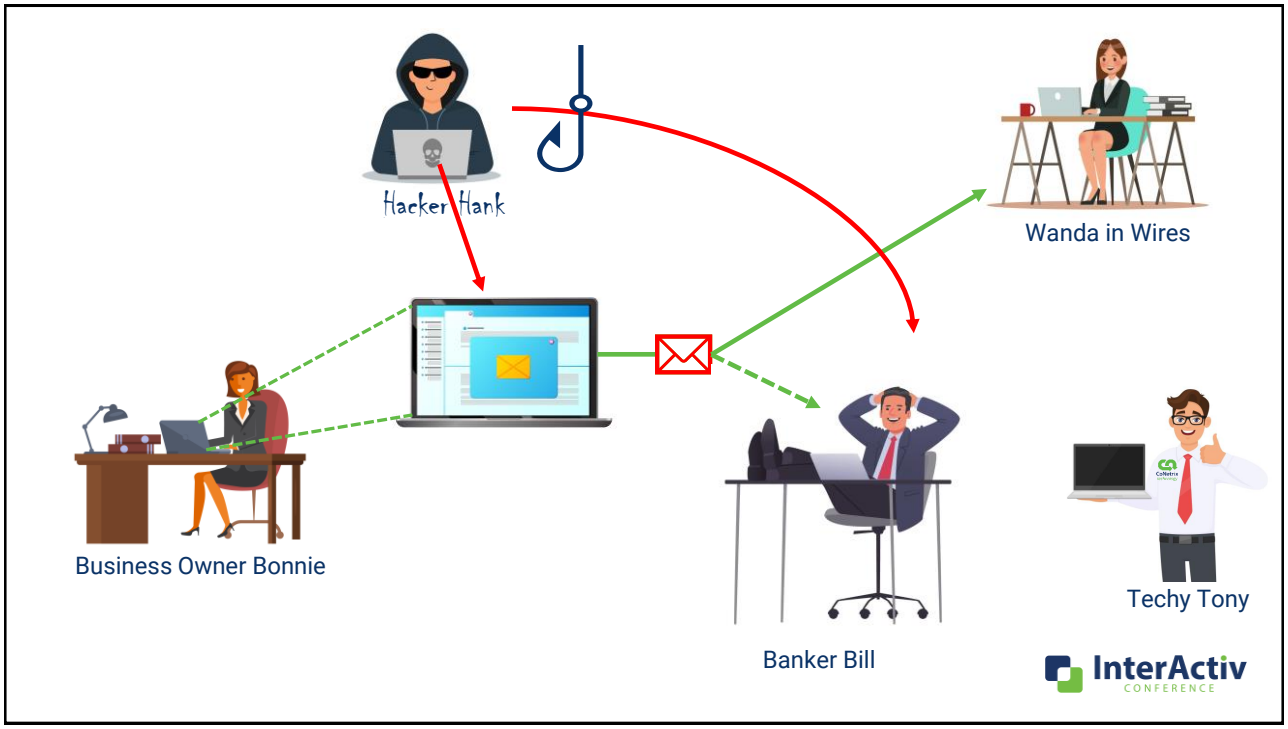

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Cybersecurity Hot Topics

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CYBERSECURITY & INFRASTRUCTURE SECURITY AGENCY (CISA)

"Ransomware is an ever-evolving form of malware designed to encrypt files on a device, rendering any files and the systems that rely on them unusable. Malicious actors then demand ransom in exchange for decryption. Ransomware actors often target and threaten to sell or leak exfiltrated data or authentication information if the ransom is not paid."

https://us-cert.cisa.gov/ncas/tips/ST19-001

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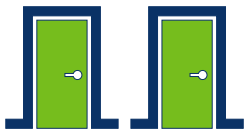
How to respond?



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To Pay or Not to Pay?

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If we pay the ransom:

High Cost

Complex Payments

No Guarantees

Bigger Target

Supports Business Model

Legal Consequences

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If we rebuild the system:

Invest Time and Money

Rebuild All Affected Systems

Restore Clean Data Backups

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Ransomware

Questions to Ask

- What protections do we have in place?
- Are all critical systems backed up?
- How would we recover from our backups?
- Have we conducted ransomware specific table-top tests?

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RESOURCE

Case Study: Small Business Survives an Active Ransomware Attack

CoNetrix.com/Ransomware

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Internet
of Things
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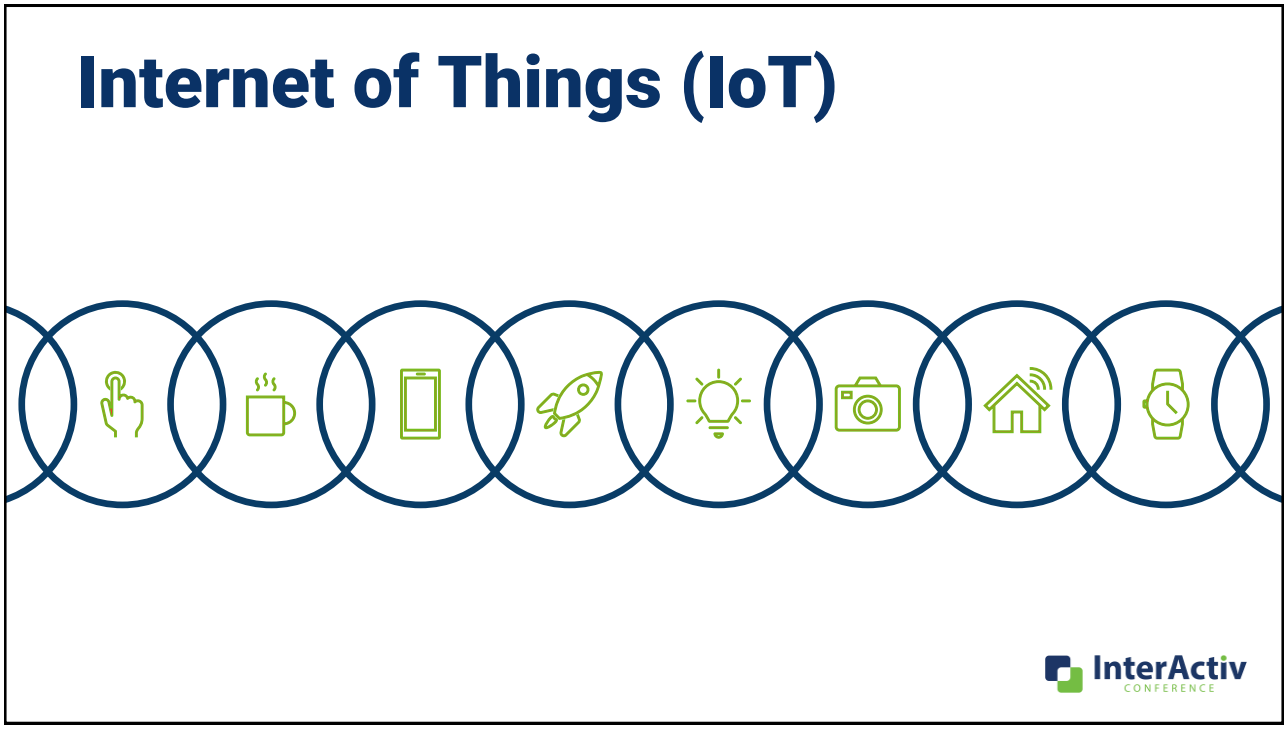
Internet of Things (IoT)
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Internet of Things

Questions to Ask

- Do we allow IoT on our company network?
- How do we patch IoT devices?

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Techy Tony

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Security Best Practices

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Security Best Practices

Install patches

Anti-malware software

Strong passwords (MFA where possible)

Don't run as a local administrator

Be cautious of phishing attempts

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ActivityHD Security Controls

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ActivWebAPI

- Two ways to use ActivWebAPI:
  - Self-Serve
  - Automation
- Security:
  - Encryption
  - Multi-Factor Authentication (MFA)

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Self-Serve

- Access via a web portal over the Internet or corporate intranet
- Self-Serve currently supports:
  - Payroll
  - Purchasing
  - Accounts Payable
- Security:
  - Encryption
  - Multi-Factor Authentication (MFA)

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Aspire Hosting

ACTIVITYHD HOSTED BY ASPIRE

- Advantages of Cloud Hosting with Aspire
  - Managed technology & security
  - Patch management, ActivityHD, and security updates
  - Scheduled data backups and disaster recovery
  - SOC 1 Type 2 reviewed datacenter

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THANKS FOR JOINING!
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