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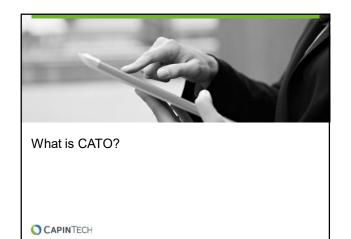
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#### Discussions for Today

- What is corporate account takeover (CATO) and how does it happen?
- How has doing business in a cyber world changed the threat landscape?
- Common security concerns surrounding phishing, patching, malware, user management, and other relevant areas
- Top tips for maintaining a good cybersecurity mindset and baseline cybersecurity practices to apply

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## CATO

- Theft of login credentials
- · Brute force credential cracking
- Phishing
- Data theft through malware
- Man-in-the-middle attacks

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#### **Account Takeover**

- · Criminals gain access to customer finances or data
  - Unauthorized transactions or funds transfer
  - · Creation of new/fake online banking users
  - Stolen customer information
- Criminals gain access to bank information



# Account Takeover

- How is this accomplished?
  - · Lack of security
  - Phishing/malware
  - · Credential stuffing
  - Email compromise



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## **Account Takeover**

- · Lack of security
  - Staying logged into Internet banking
  - Password management tool auto-populates passwords
  - Sends code to text or email on device



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#### **Account Takeover**

- Phishing and malware
  - Exploited devices allow access
  - Sensitive information obtained
- · Credential stuffing



# Account Takeover

- Email compromise
  - Emails appear legitimate
  - Requests seem normal
  - Utilize spoofed/fake email accounts or malware



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Threat Landscape

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# FTC Consumer Reports for 2023

- Fraud losses \$10 billion
- Investment scams \$4.6 billion
- Imposter scams \$2.7 billion

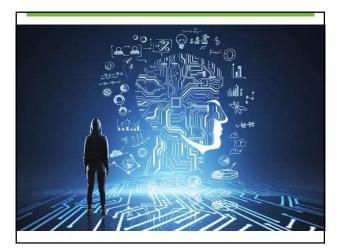
Source: As Nationwide Fraud Losses Top \$10 Billion in 2023, FTC Steps Up Efforts to Protect the Publi Federal Trade Commission

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## Phishing

- Email phishing
- · Spear phishing
- Whaling
- Business email compromise
- Voice phishing
- HTTPS phishing

- · Clone phishing
- SMS phishing
- Pop-up phishing
- Social media phishing
- Angler phishing
- · Evil twin phishing

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# Phishing Failure by Industry

- Agriculture and Food Services 8.2%
- Banking and Financial Institutions 7.1%
- Legal Sector 7.1%
- Automotive Part Manufacturers 7.0%
- Government Organizations 6.8
- Insurance Sector 6.7%

Source: PhishingBox, LLC

# Phishing – How to Detect

- Inspect for typos
- · Check email address and domain name
- · Click correctly
  - Hover over link
  - · Right click and copy
  - · Visit website manually



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# Phishing – How to Detect

- It doesn't feel right
- Tone is off
- Urgent/threatening
- Unfamiliar or unexpected



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# **Protection and Prevention**

- · Banking controls
  - · Multi-factor authentication
  - New user alerts
  - Device authentication and restrictions
  - Enhanced controls for highrisk transactions
  - · User training



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## **Protection and Prevention**

- · Company controls
  - Employee education
  - Proper security
  - Monitor for suspicious activity
  - · Understand responsibilities



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**Baseline Cyber Practices** 

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# Security Concerns

- · Third-party vendors
  - · New relationships
  - · Existing vendors
- · Organization responsibilities
- End-user assistance



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# New Third-Party Vendor Relationships

- · General inquiry
- Workforce
- · Information security
  - Cloud storage
- · Policy documentation



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# New Third-Party Vendor Relationships

- Review System and Organization Controls (SOC) reports
- · Review any contracts
- Research what others have implemented
  - · Hardening controls
  - Proper implementation procedures
  - · Possible mistakes



# Existing Vendor Relationships

- Periodic oversight procedures
  - · Review of audit reports
  - Backup or disaster recovery testing
  - · Financial condition
  - · Existing contracts
  - · Vendor oversight



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# Organizational Responsibilities

- Ongoing monitoring of critical vendor services
  - Patch management reporting
  - · Malware management reporting
  - · Backup process





# User Provisioning and Access

- Minimum rights for users
- Review regularly
  - Job transfers
  - · No longer needed



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# **Password Security**

- Numbers, characters, symbols
- · Avoid common words
- Change often and when compromised
- Length 12, 14, ???





# **Password Security**

- Unique and private passwords
  - · Password manager?
- Business ≠ personal
- Account lockout and inactivity threshold
- Biometrics
- Layered security



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## Multi-Factor Authentication

- Critical for all cloud applications
  - · Remote access, email, AWS/Azure
- Mobile devices, email message, tokens
- · Consider IP address, time, and day restrictions



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# **Email Security**

- Encryption for confidential/sensitive information
  - · Sending and receiving
- · Auto-forwarding disabled
- If not needed, limit or restrict web mail
- Strip links within incoming email



# Wi-Fi Networks

- Ensure properly secured Wi-Fi, including those at home offices (WPA2 encryption or better)
  - Avoid use of public Wi-Fi; if necessary, use a VPN!
- · Secure password for access
- Guest network for non-business systems (segregate)



 Keep personal and business devices up to date

· Consider the use of mobile hotspots

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# Malware and Patch Management MACHING DETECTED AND MACHING DETECT

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## **Device Management**

- · Centralized system
  - · All devices present
  - Receive latest updates or definition files
  - · Remediate issues
- · Limited user rights
  - Downloaded apps from Internet
  - Browser add-ons



# Web Surfing

- Avoid questionable websites
- Be cautious when downloading
- · Use updated browsers
- Inspect URLs
- Be wary of malvertising



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# Social Networking

- Impersonation
  - Phishing and vishing
- · Identity theft
- Pretexting
- Security questions and answers
- · Data not always private



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## Data Storage

- Cloud applications typically can be accessed from any location on any device
- Risk of applications being accessible on unauthorized devices, resulting in data management concerns



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# Internet of Things (IoT) Devices

- · Inventory devices in use
- · Layered security controls
  - · Strong passwords
  - Evaluate data and analytics sharing
  - · Patching procedures
  - · Disable features
  - · Segmented network
- · Consider listening capability



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# Remote Access Tools

- VPNs, LogMeIn, GoToMyPC
- · Increase in end users
- Require proper security measures
  - Quick fixes vs. long-term solution
- Does this affect strategic planning?



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## Shadow IT

- Apps or devices that are utilized without IT knowledge
  - · Personal or mobile devices
- · Rogue cloud services
  - Personal email, document scanning, cloud storage
- · Appropriate authorization procedures

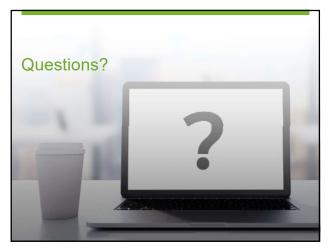
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# Key Takeaways

- New threats happening every day no one is immune!
- Loss of reputation can be significant
- Manage vendor relationships appropriately
- Maintain adequate security controls
  - · Provide necessary tools for users
  - Doesn't have to be expensive!
  - Train to build culture of awareness

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