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Scott
KAYLOR
Senior Manager
Professional Services

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Agenda

- Trending threats
- Industry Cyber Events
- Cyber Tools

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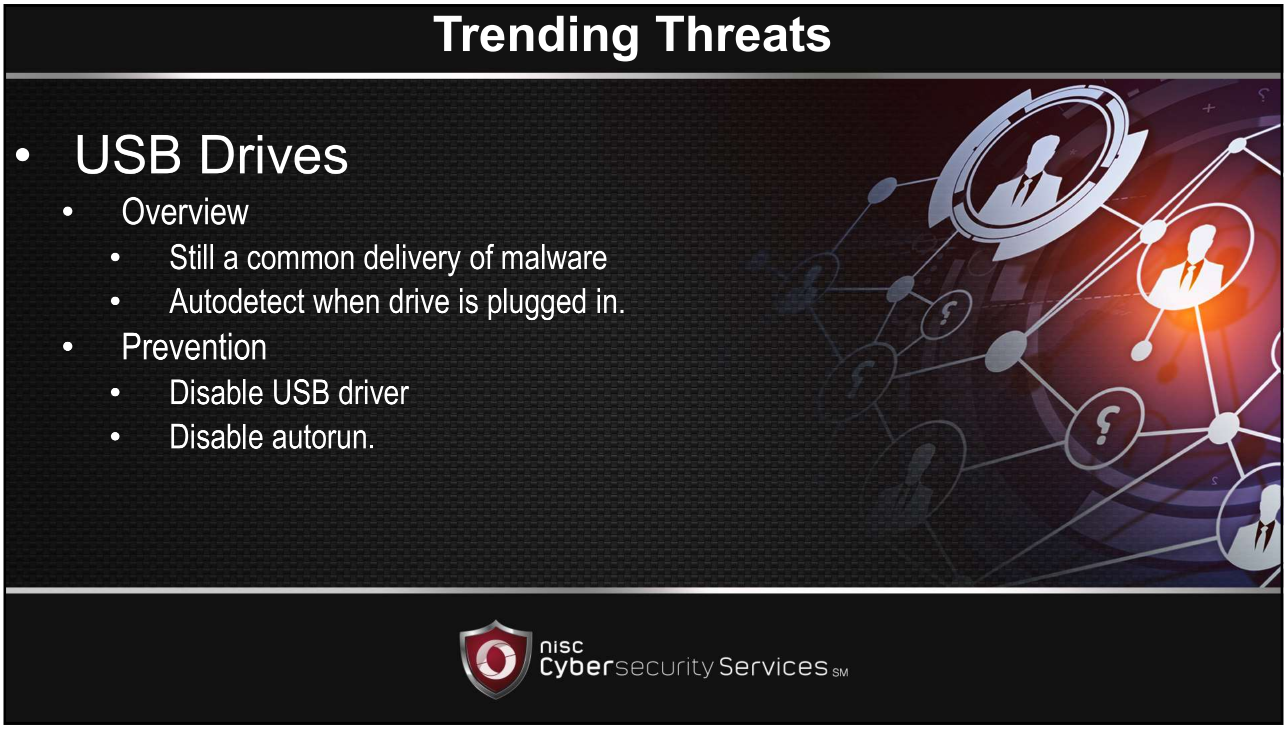

Trending Threats

- USB Drives
  - Overview
    - Still a common delivery of malware
    - Autodetect when drive is plugged in.
  - Prevention
    - Disable USB driver
    - Disable autorun.

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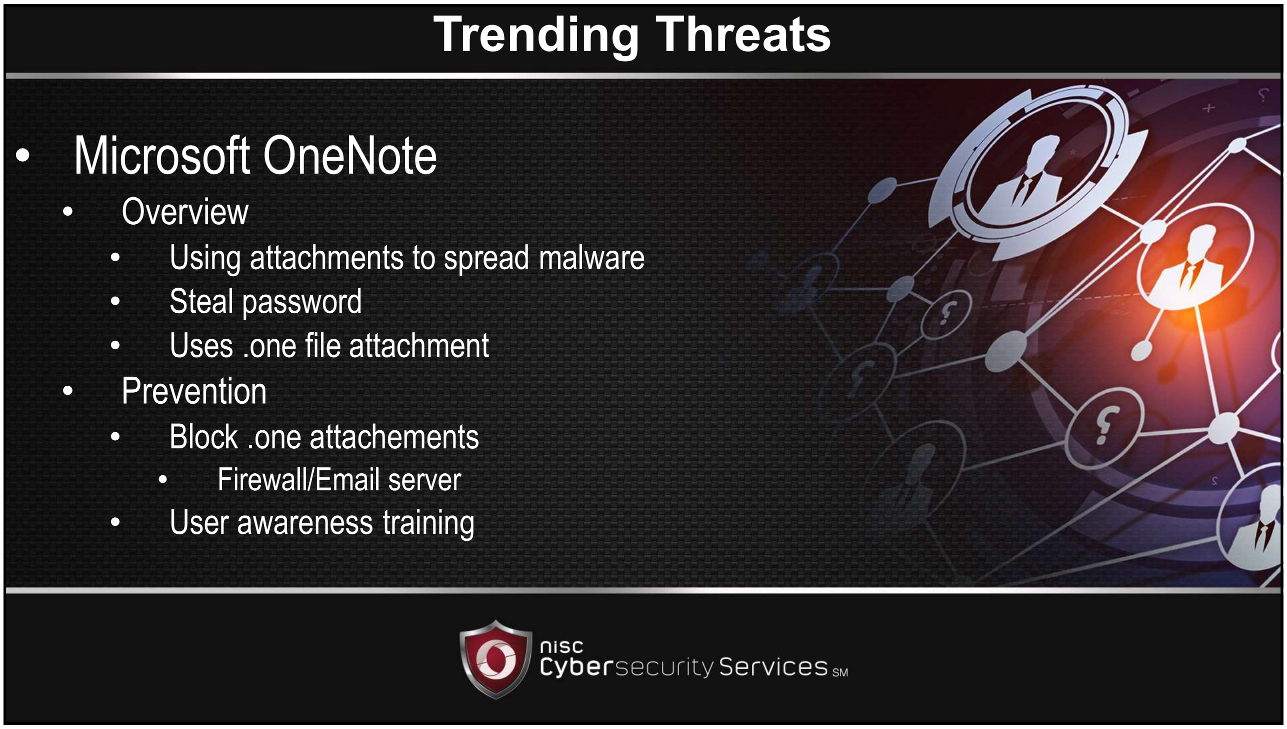

Trending Threats

- Microsoft OneNote
  - Overview
    - Using attachments to spread malware
    - Steal password
    - Uses .one file attachment
  - Prevention
    - Block .one attachements
      - Firewall/Email server
    - User awareness training

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Trending Threats

- MFA
  - Overview
    - Continue rise in credentials stolen
    - No MFA on VPN, VDI, SaaS
  - Prevention
    - Harden MFA to prevent push fraud
    - User training
- Attacker are banking on alert fatigue

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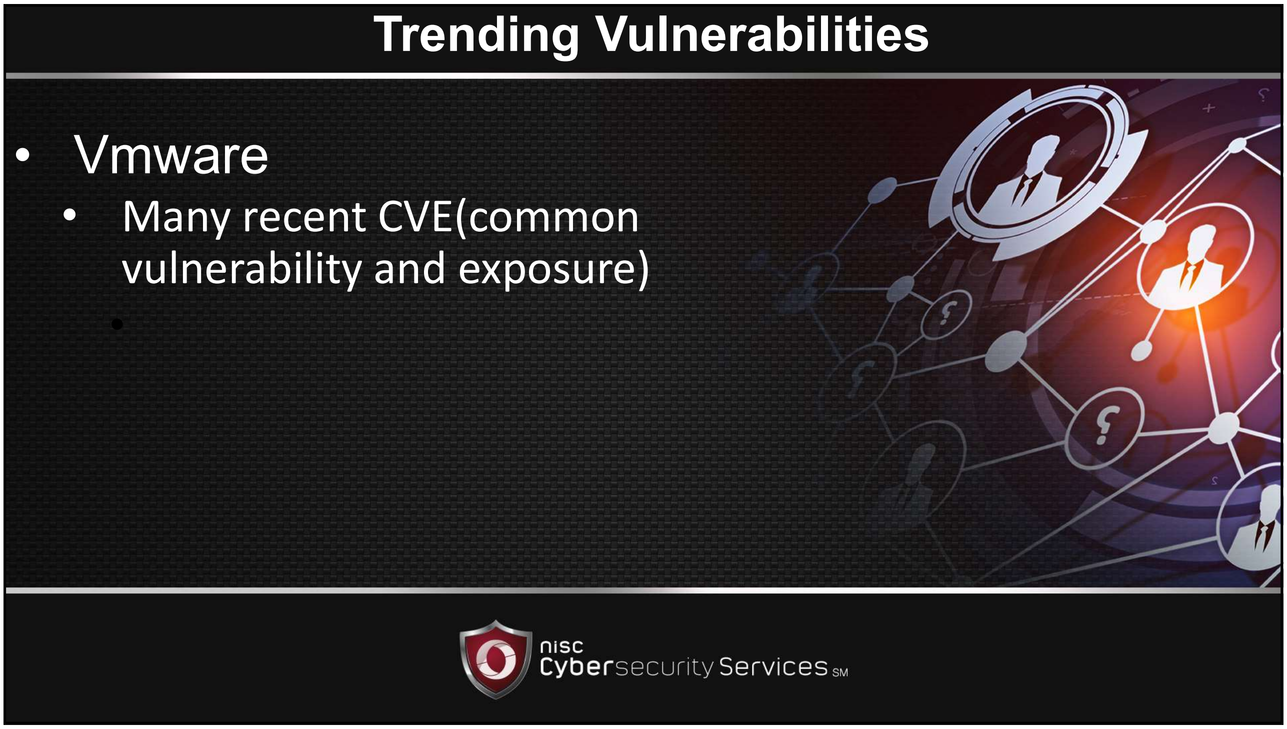

Trending Vulnerabilities

- Vmware
  - Many recent CVE(common vulnerability and exposure)

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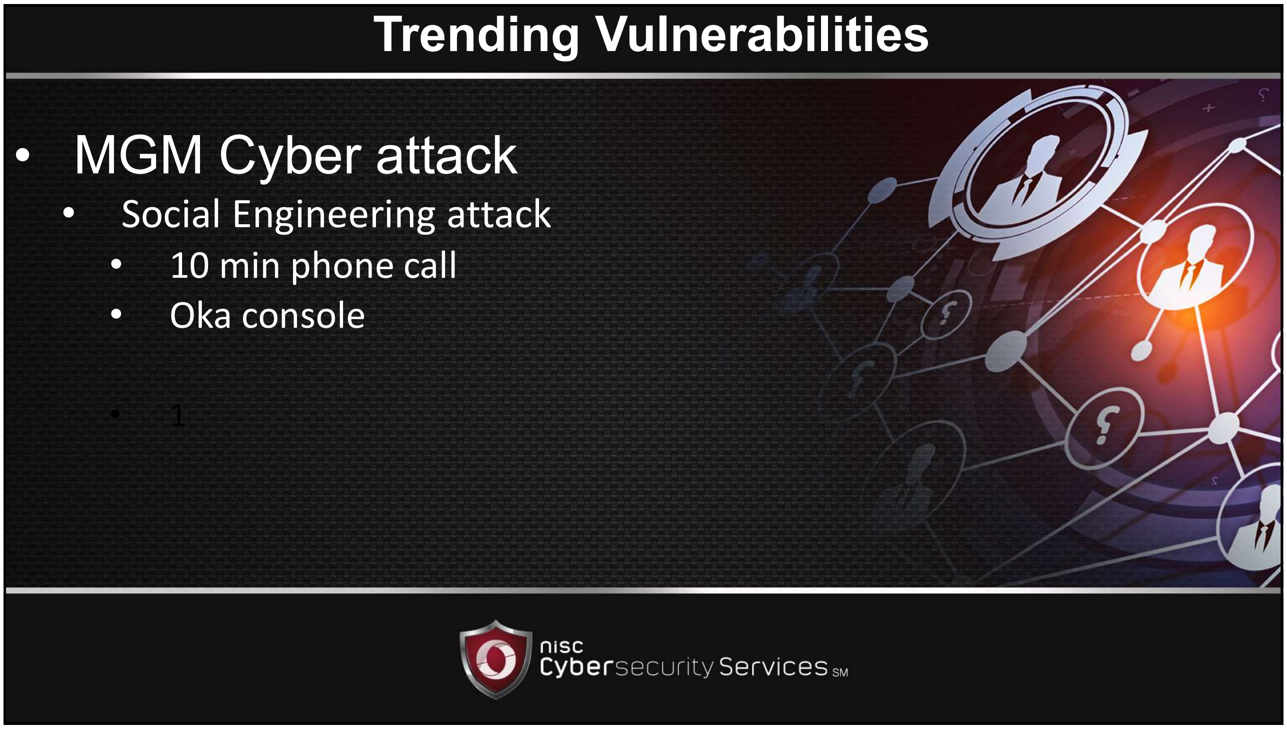

Trending Vulnerabilities

- MGM Cyber attack
  - Social Engineering attack
    - 10 min phone call
    - Oka console
    - 1

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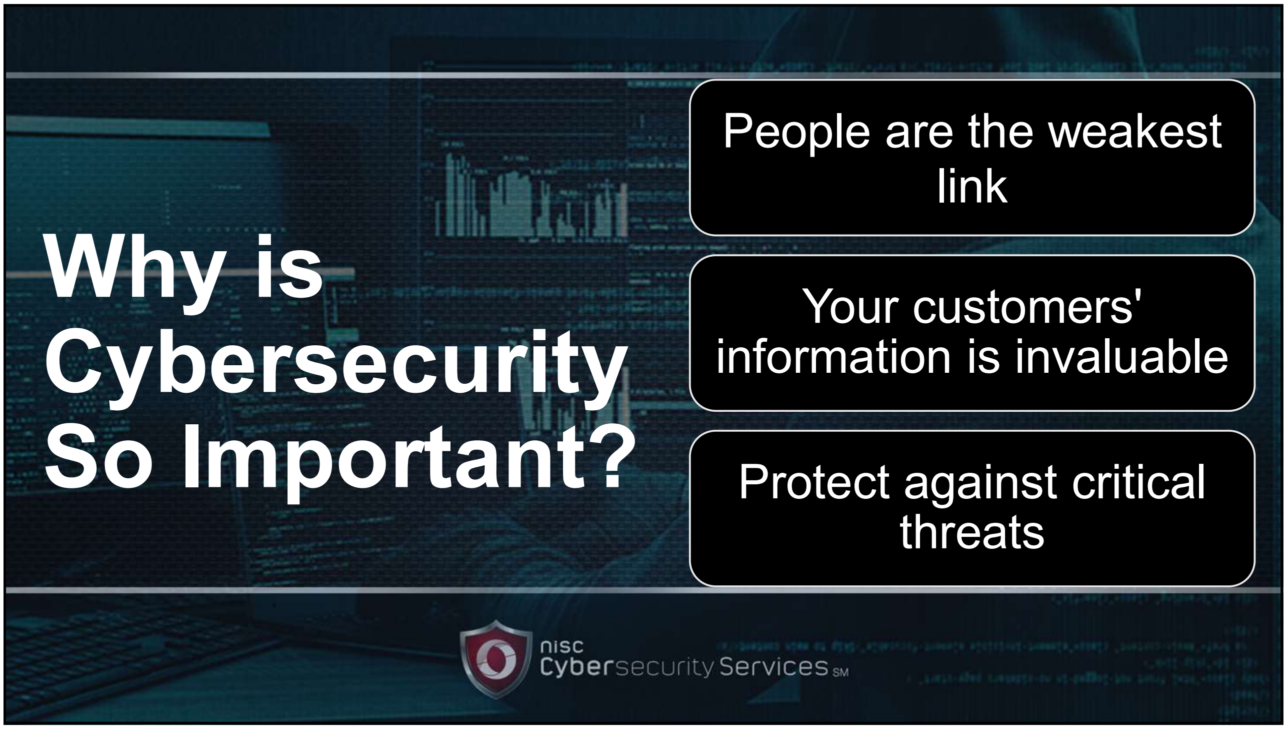

Why is Cybersecurity So Important?

People are the weakest link

Your customers' information is invaluable

Protect against critical threats

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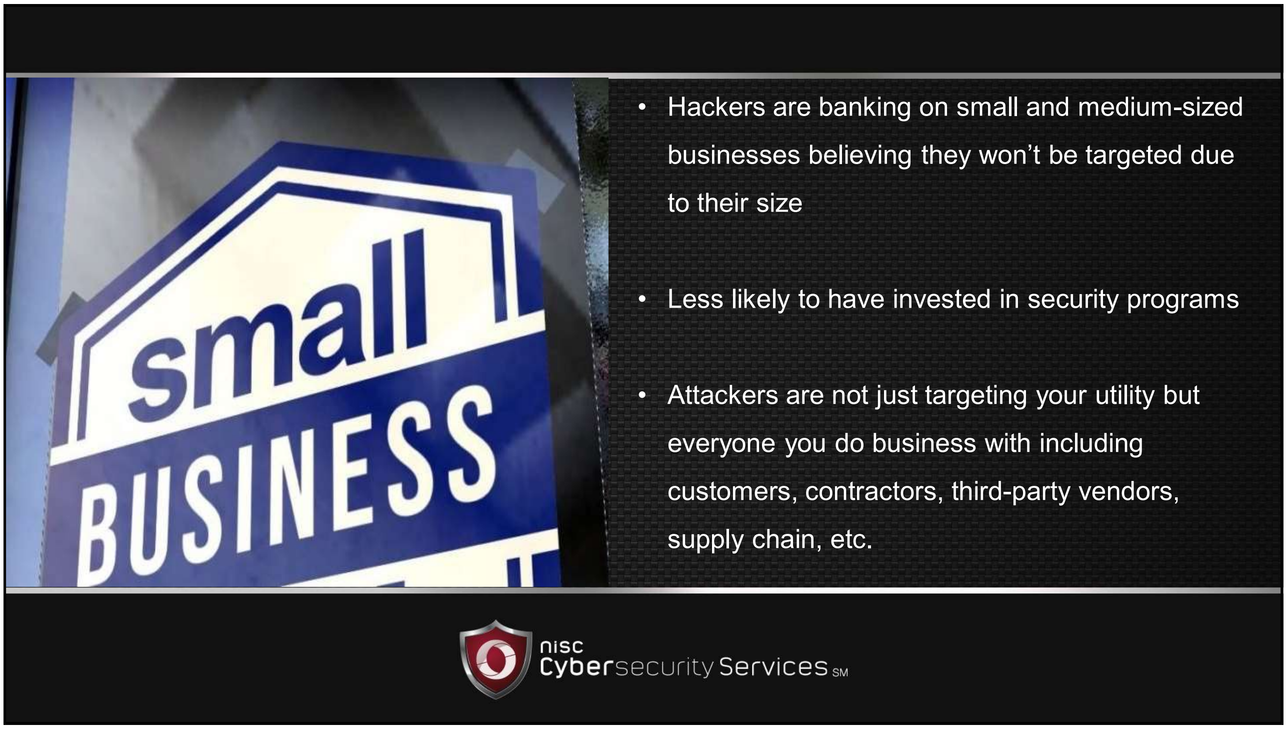
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BUSINESS
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- Hackers are banking on small and medium-sized businesses believing they won’t be targeted due to their size
- Less likely to have invested in security programs
- Attackers are not just targeting your utility but everyone you do business with including customers, contractors, third-party vendors, supply chain, etc.

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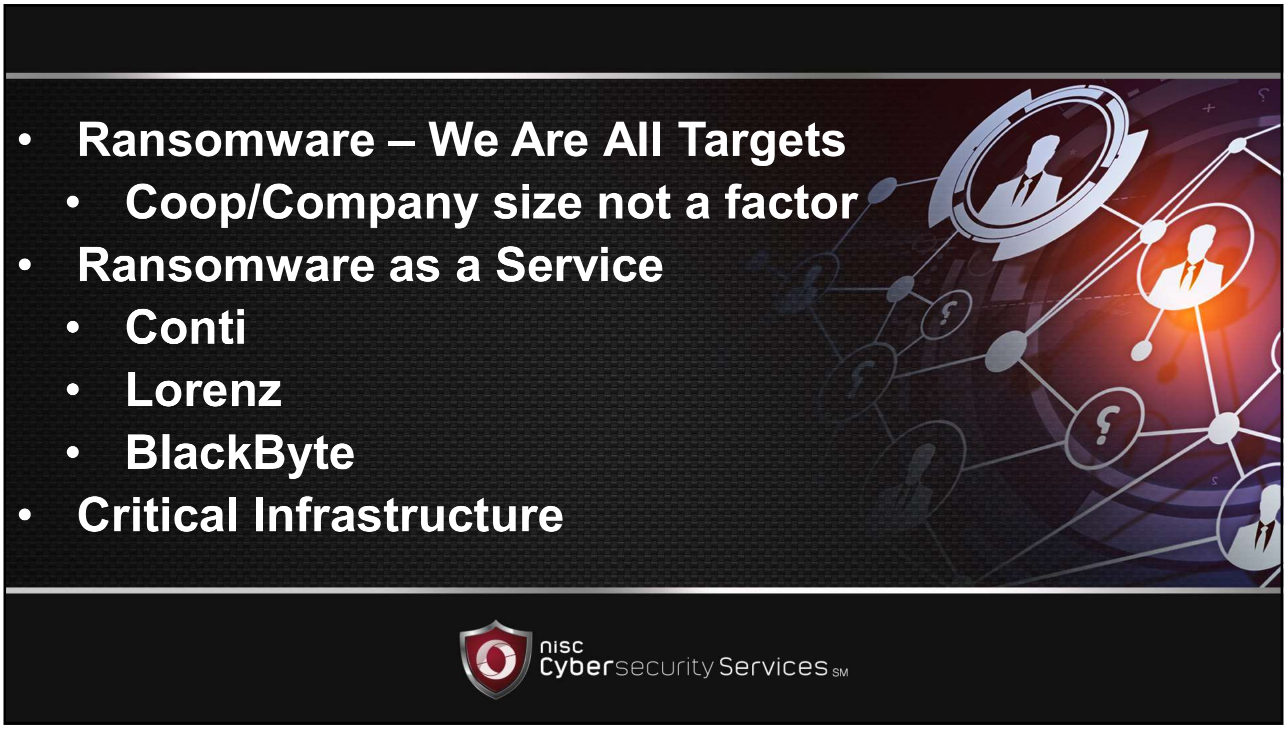
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- **Ransomware – We Are All Targets**
  - **Coop/Company size not a factor**
- **Ransomware as a Service**
  - **Conti**
  - **Lorenz**
  - **BlackByte**
- **Critical Infrastructure**

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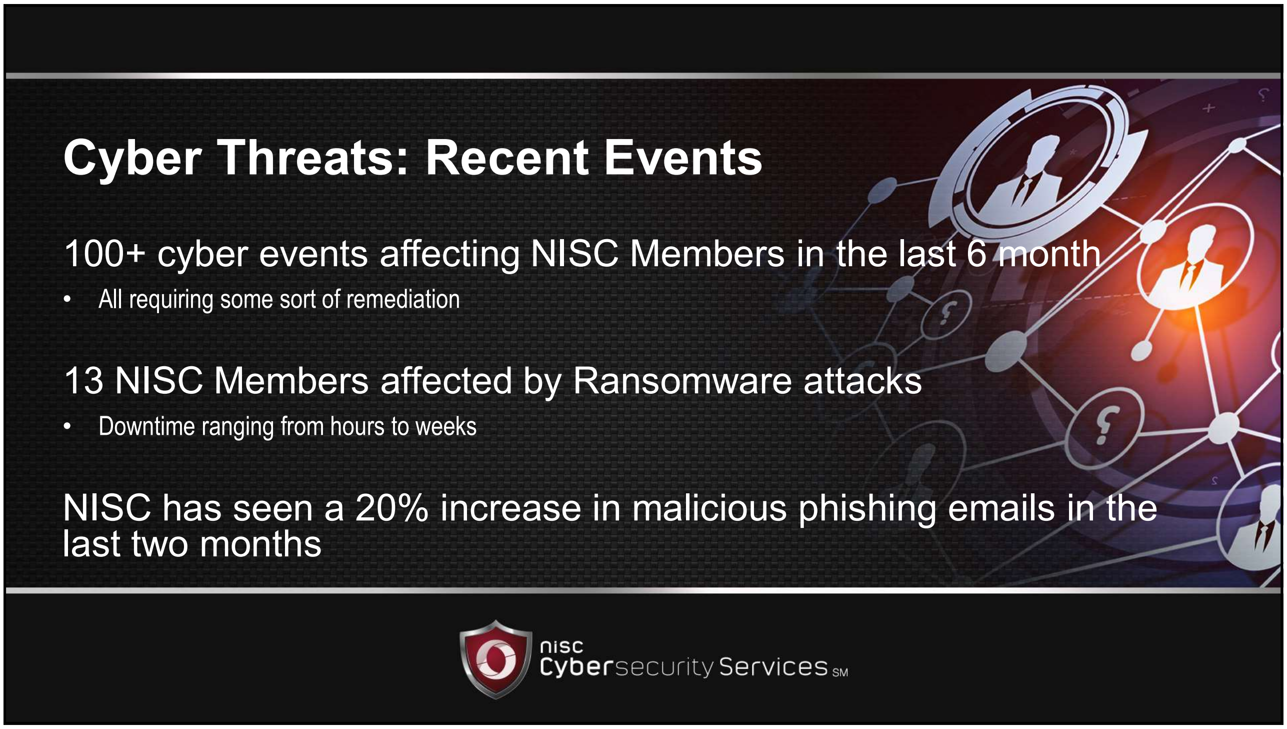

Cyber Threats: Recent Events

100+ cyber events affecting NISC Members in the last 6 month

- All requiring some sort of remediation

13 NISC Members affected by Ransomware attacks

- Downtime ranging from hours to weeks

NISC has seen a 20% increase in malicious phishing emails in the last two months

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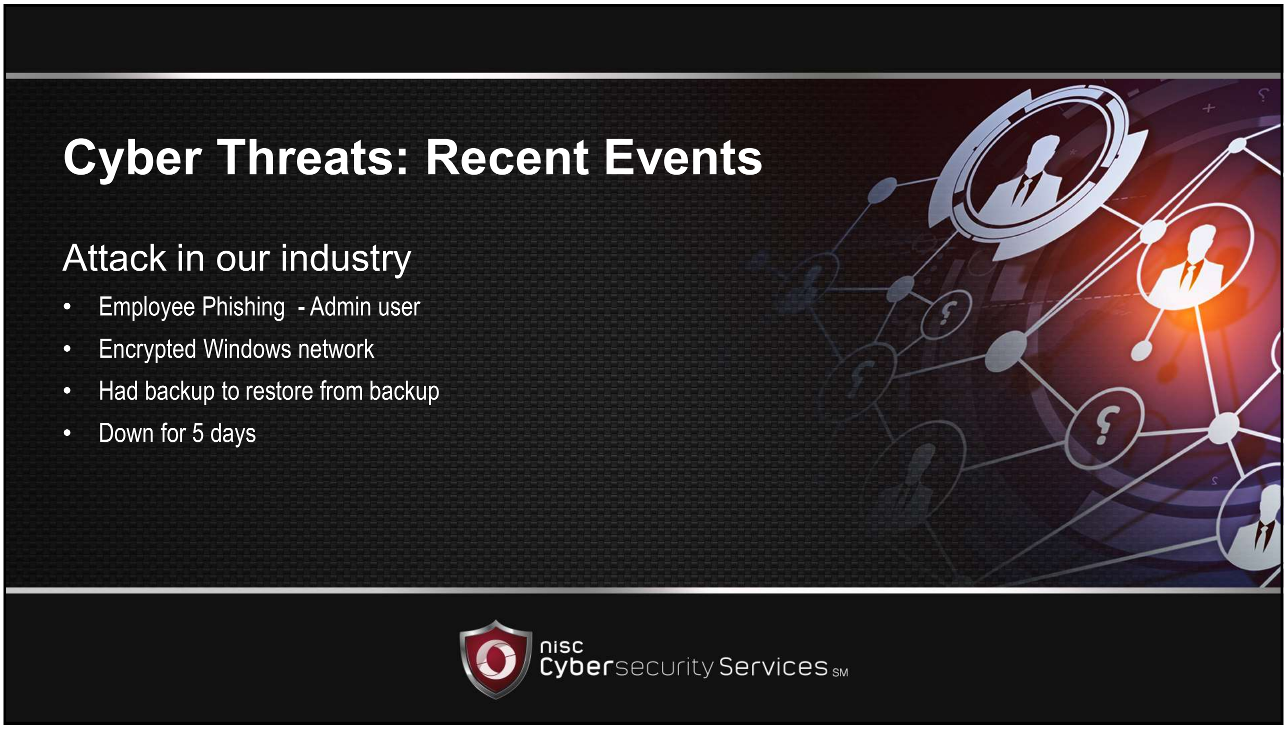

Cyber Threats: Recent Events

Attack in our industry

- Employee Phishing - Admin user
- Encrypted Windows network
- Had backup to restore from backup
- Down for 5 days

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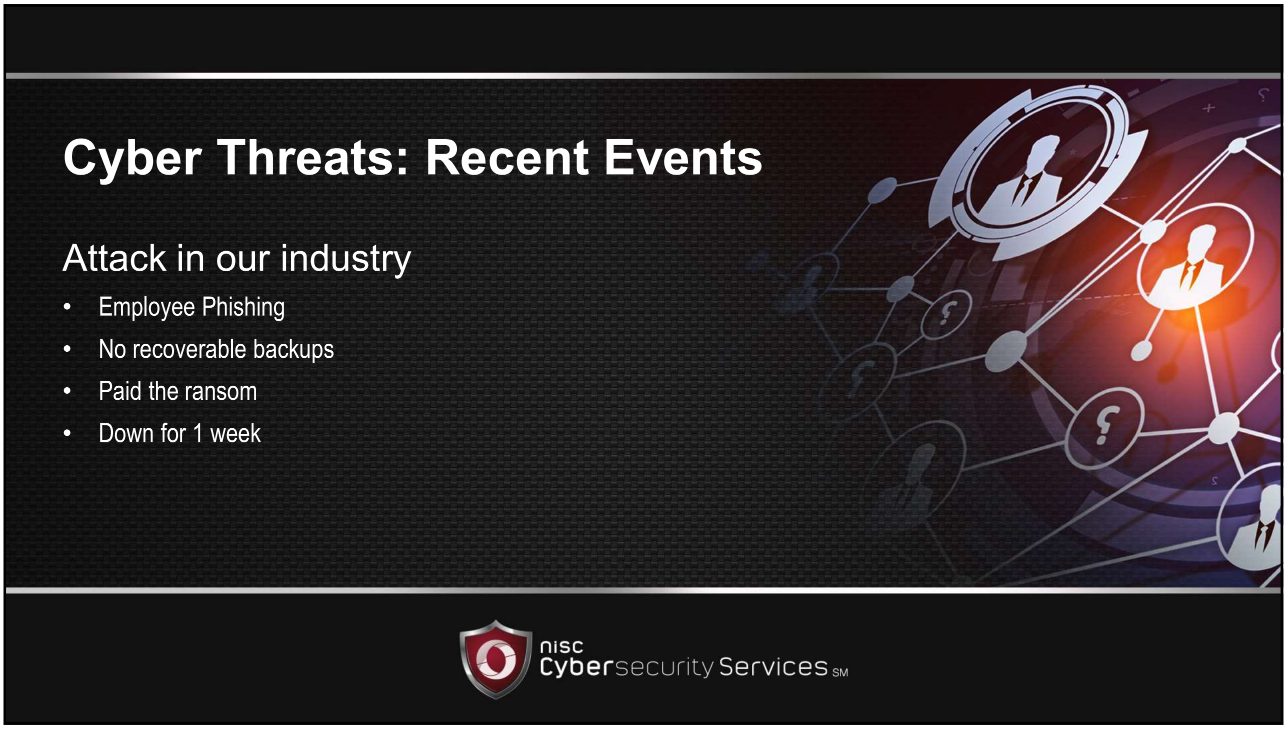

Cyber Threats: Recent Events

Attack in our industry

- Employee Phishing
- No recoverable backups
- Paid the ransom
- Down for 1 week

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Cyber Threats: Recent Events

Attack in our Industry

- Remote access
- Vmware infrastructure encrypted
- Recoverable backups
- Did not pay the ransom
- Down for 24 hours
- Back to normal in 2 weeks

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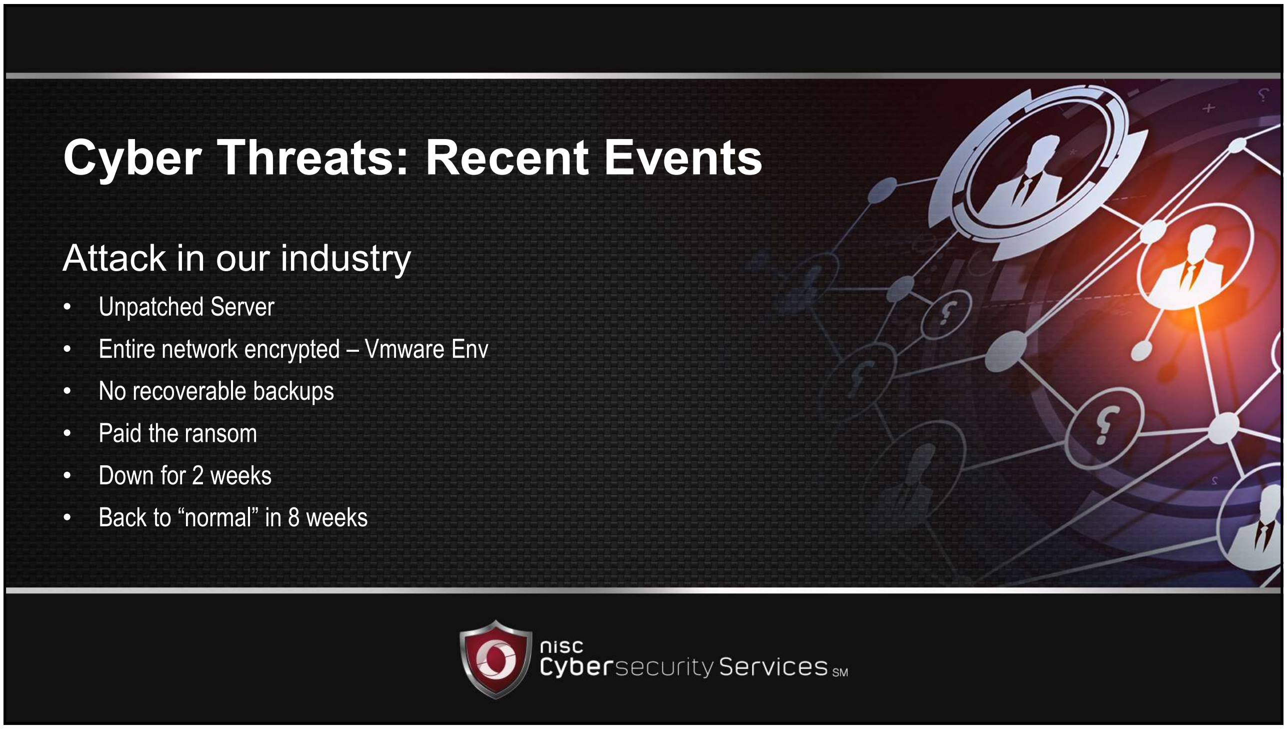

Cyber Threats: Recent Events

Attack in our industry

- Unpatched Server
- Entire network encrypted – Vmware Env
- No recoverable backups
- Paid the ransom
- Down for 2 weeks
- Back to “normal” in 8 weeks

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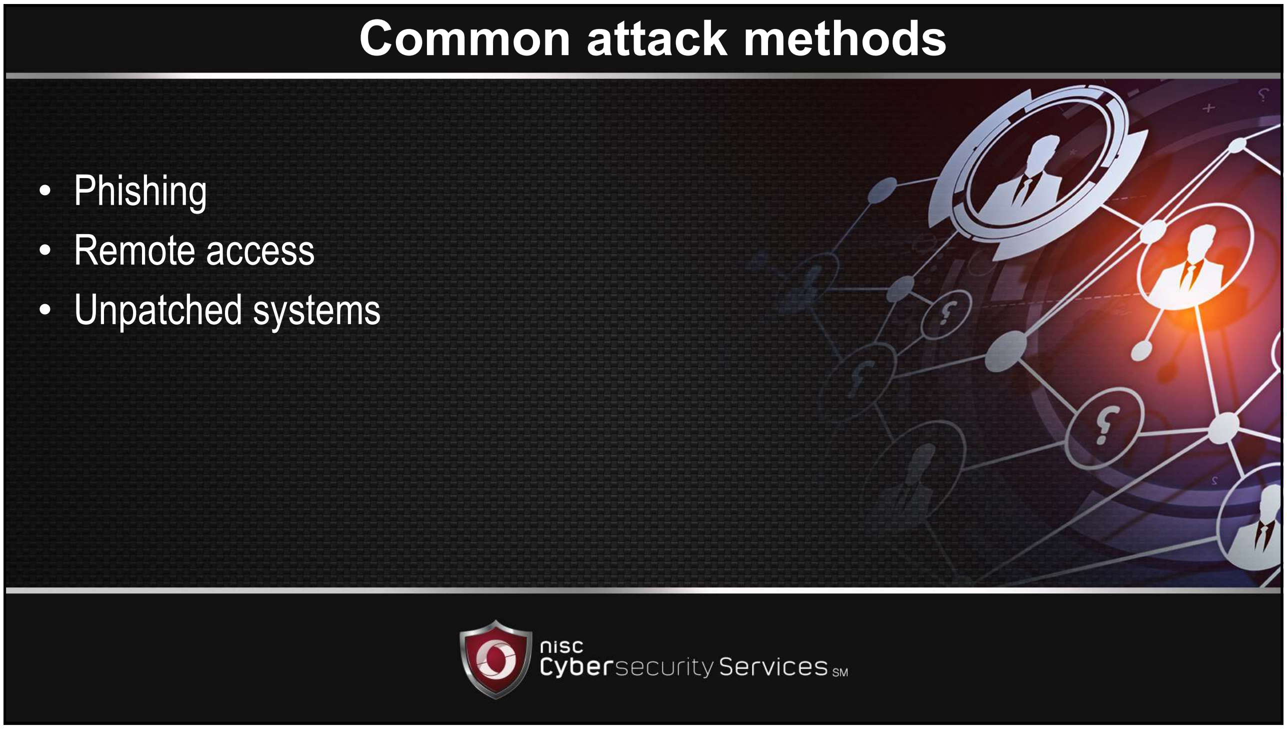

Common attack methods

- Phishing
- Remote access
- Unpatched systems

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How Do We Defend Against These Attacks?

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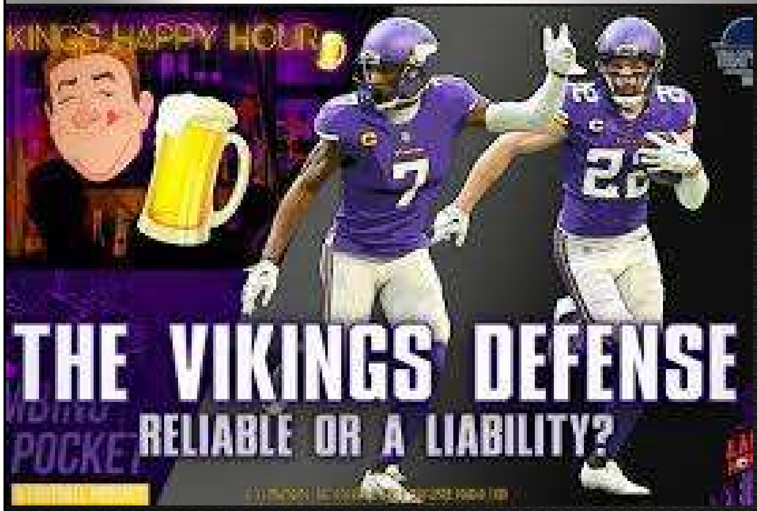

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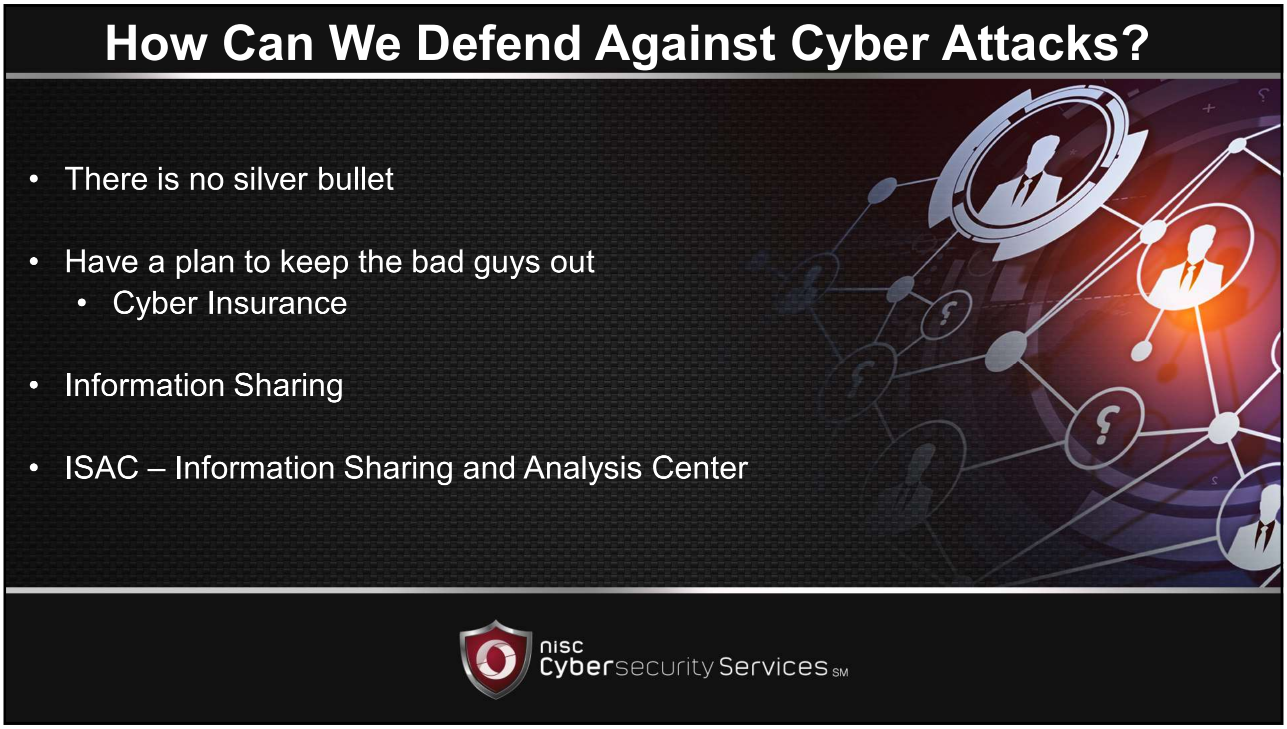

How Can We Defend Against Cyber Attacks?

- There is no silver bullet
- Have a plan to keep the bad guys out
  - Cyber Insurance
- Information Sharing
- ISAC – Information Sharing and Analysis Center

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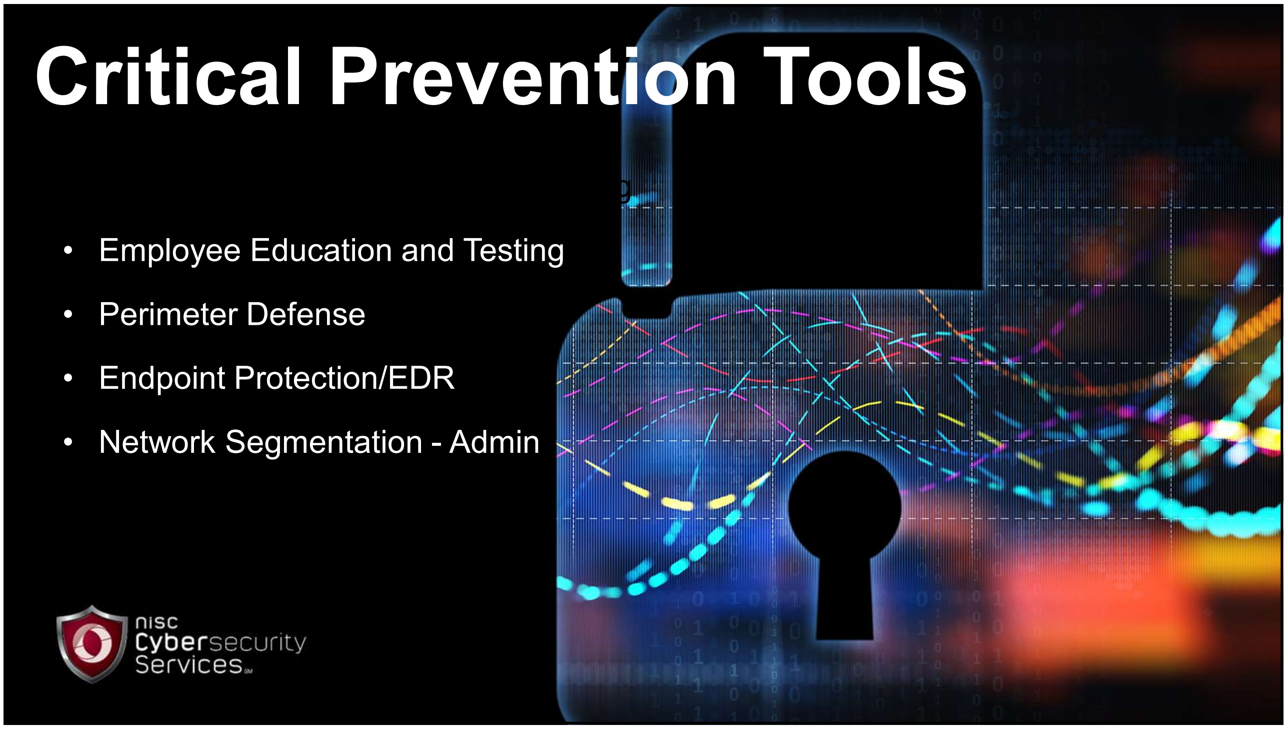

Critical Prevention Tools

- Employee Education and Testing
- Perimeter Defense
- Endpoint Protection/EDR
- Network Segmentation - Admin

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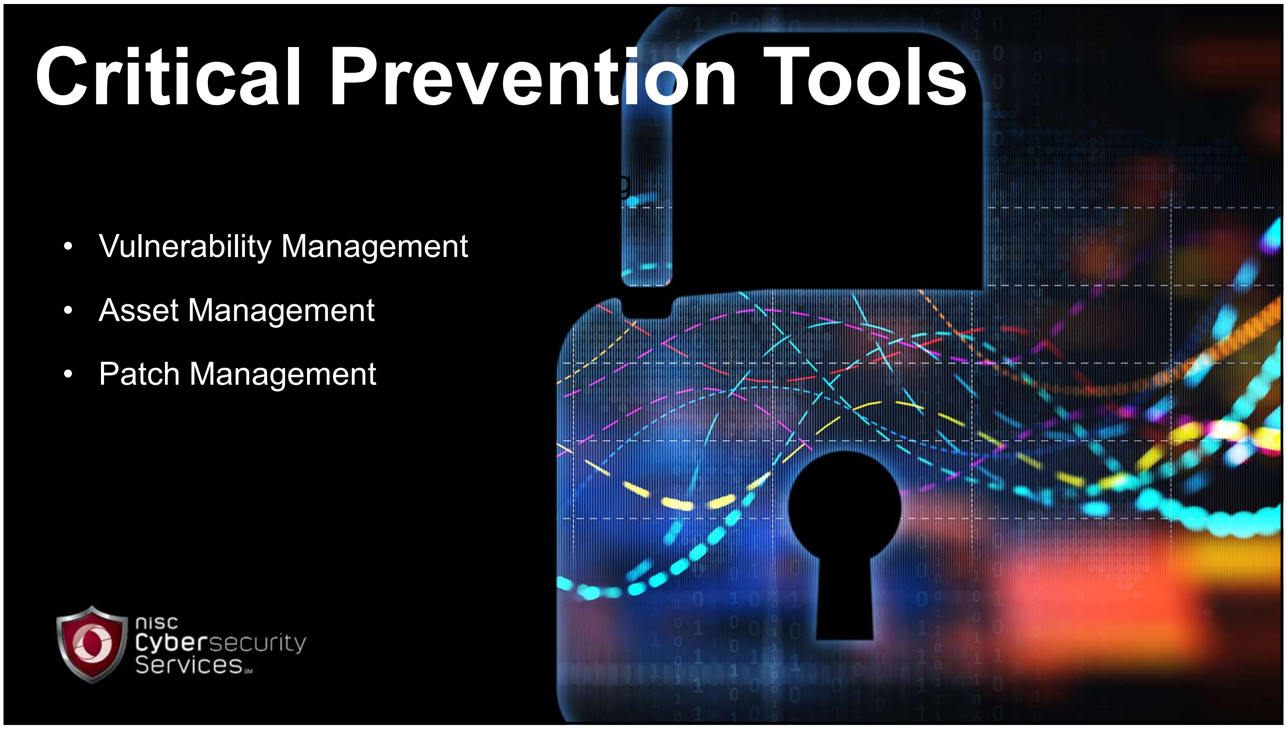

Critical Prevention Tools

- Vulnerability Management
- Asset Management
- Patch Management

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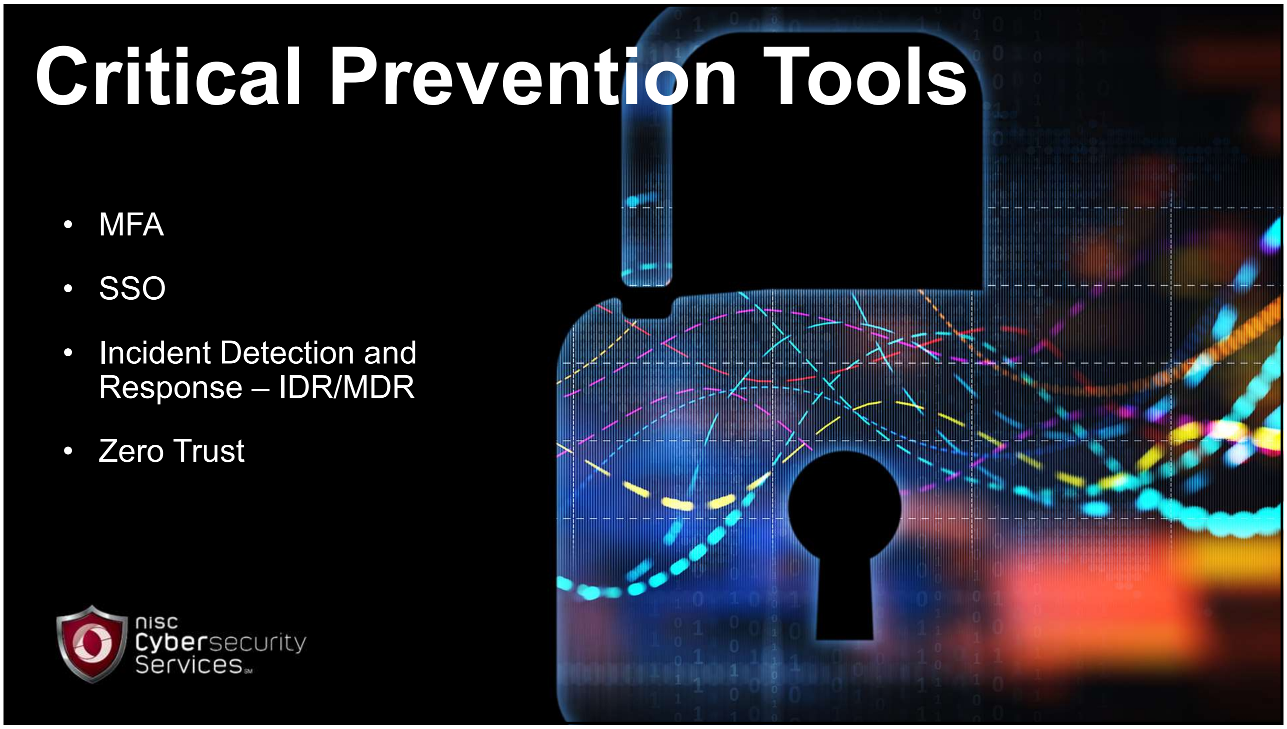

Critical Prevention Tools

- MFA
- SSO
- Incident Detection and Response – IDR/MDR
- Zero Trust

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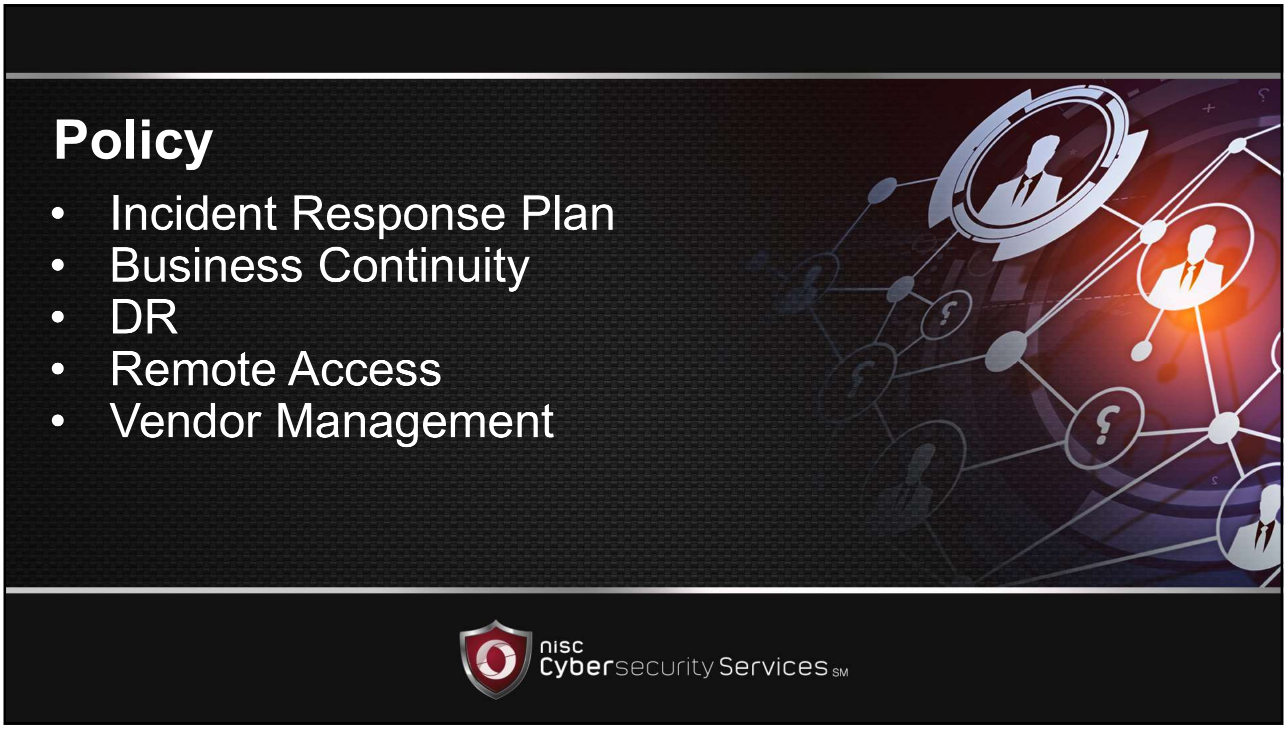

Policy

- Incident Response Plan
- Business Continuity
- DR
- Remote Access
- Vendor Management

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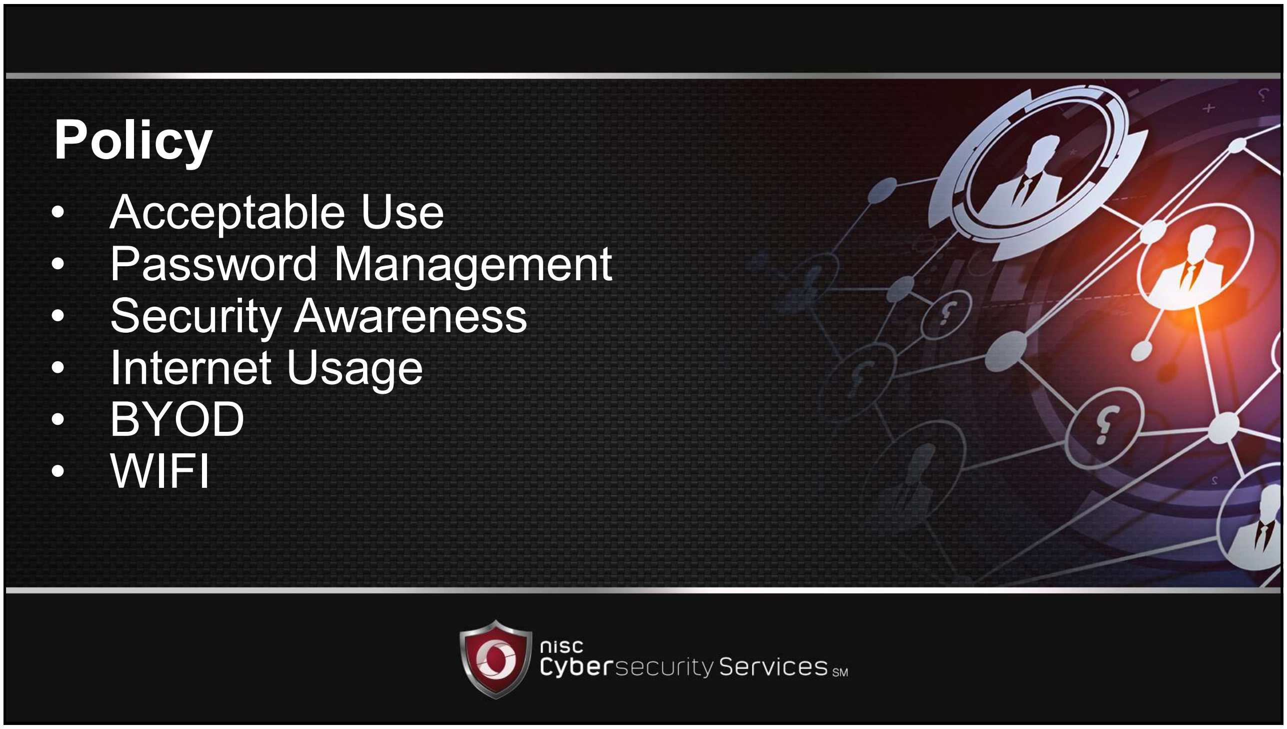

Policy

- Acceptable Use
- Password Management
- Security Awareness
- Internet Usage
- BYOD
- WIFI

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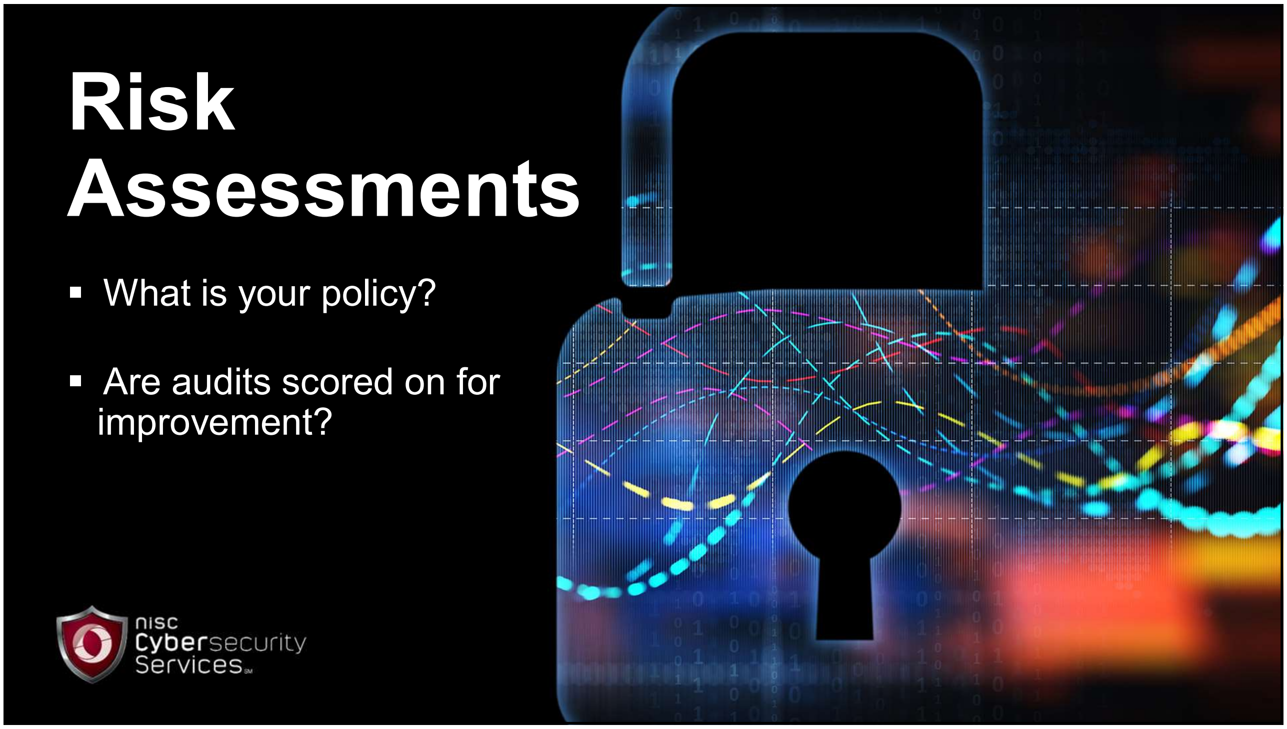

Risk Assessments

- What is your policy?
- Are audits scored on for improvement?

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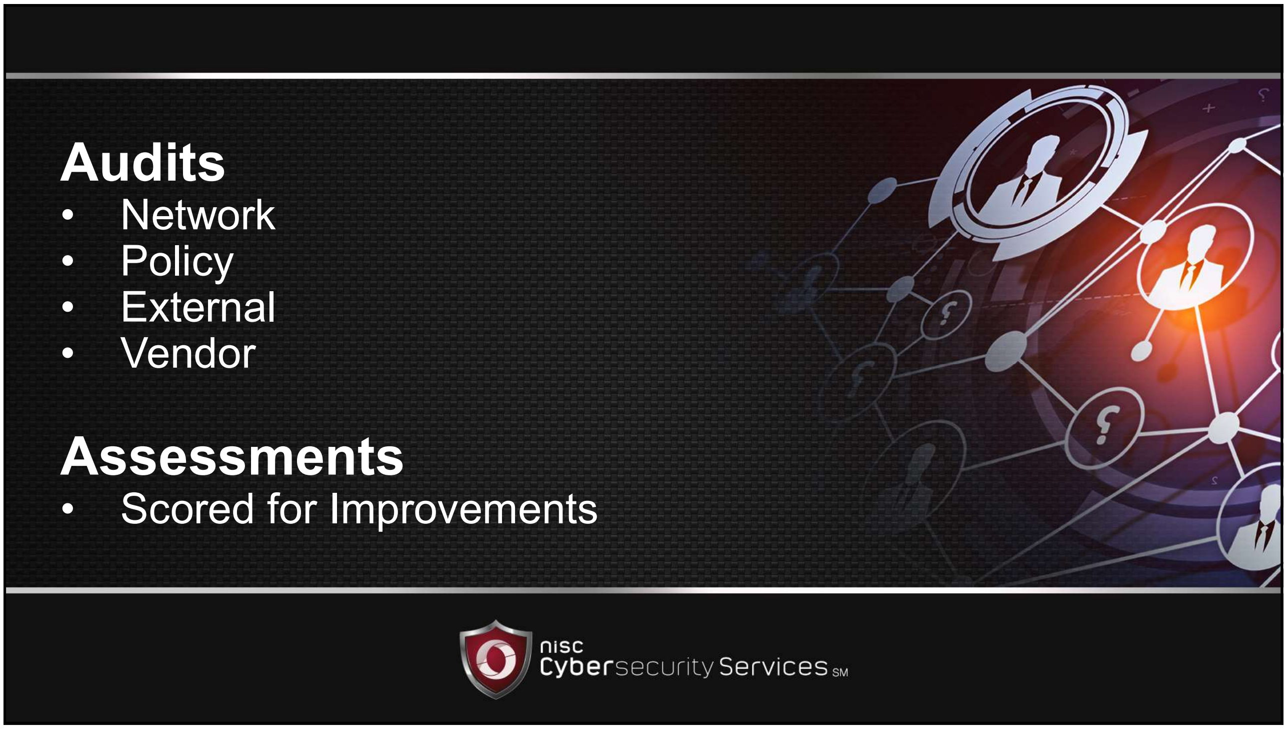

Audits

- Network
- Policy
- External
- Vendor

Assessments

- Scored for Improvements

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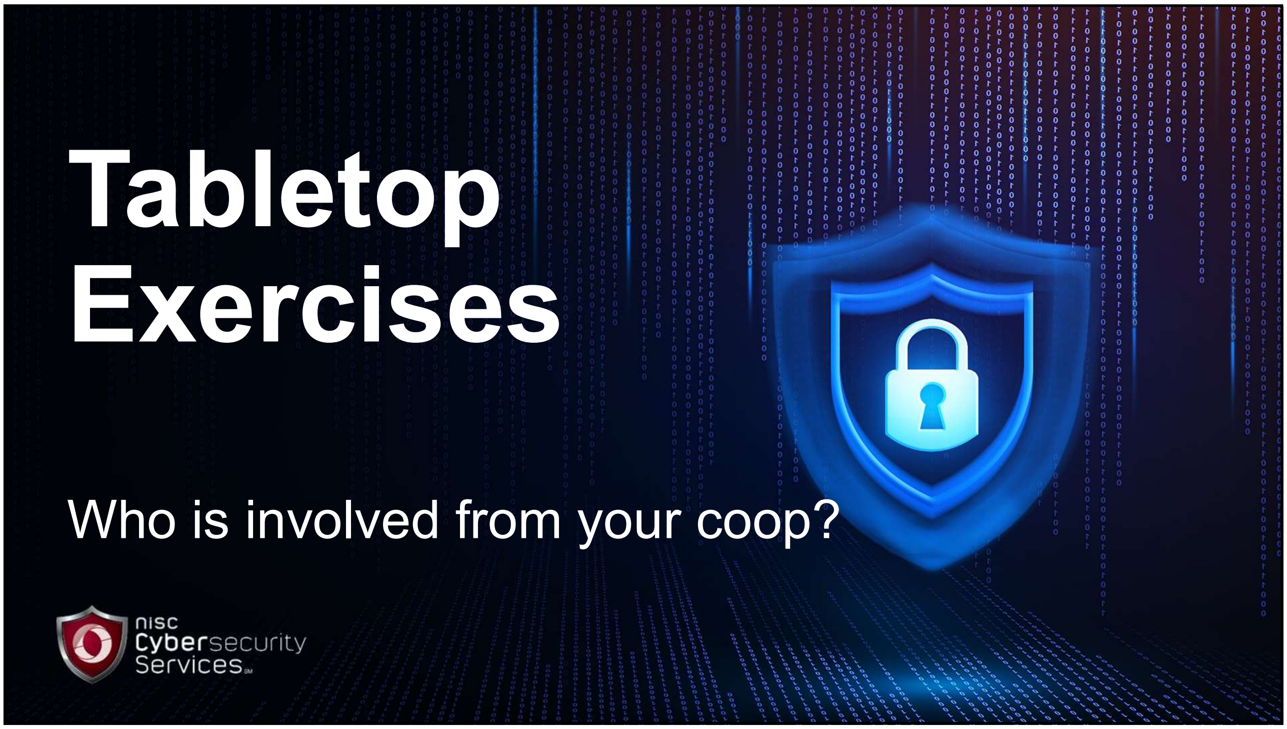

Tabletop Exercises

Who is involved from your coop?

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How Do You Recover from a Ransomware Incident?

- Define and put in place a strong **off-site, isolated backup strategy**
- Ensure your business is **uninterrupted** by the incident

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THE STEEL CURTAIN

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EDUCATION

ENDPOINT PROTECTION

INCIDENT DETECTION & RESPONSE

PERIMETER DEFENSE

VULNERABILITY MANAGEMENT

PATCH MANAGEMENT & AUTOMATION

BACKUP MANAGEMENT

IDENTITY AND ACCESS MANAGEMENT

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Questions?

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Thank You

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