The Top Cybersecurity Weaknesses Most Organizations Face

Jeremiah School – Impact Networking / DOT Security

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Introduction

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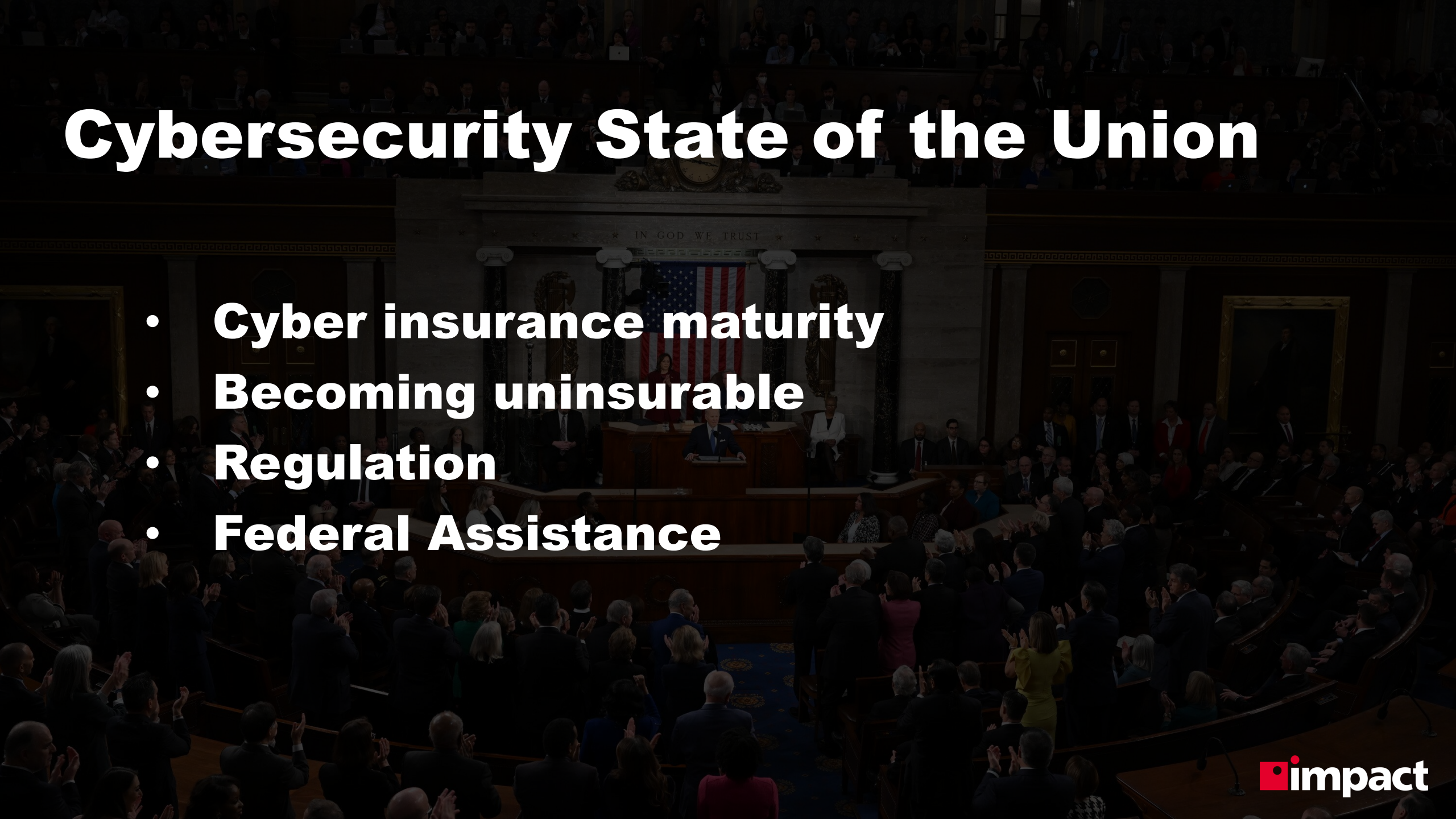
Agenda

- Insights from Last Months Presentations
- State of the Cyber Union
- Top 5 Cybersecurity Weaknesses
- Future of Cybersecurity
- Q&A

Insights From Last Months Presentations

- The perspective of a hacker
- Being tracked online

Cybersecurity State of the Union



- Cyber insurance maturity
- Becoming uninsurable
- Regulation
- Federal Assistance

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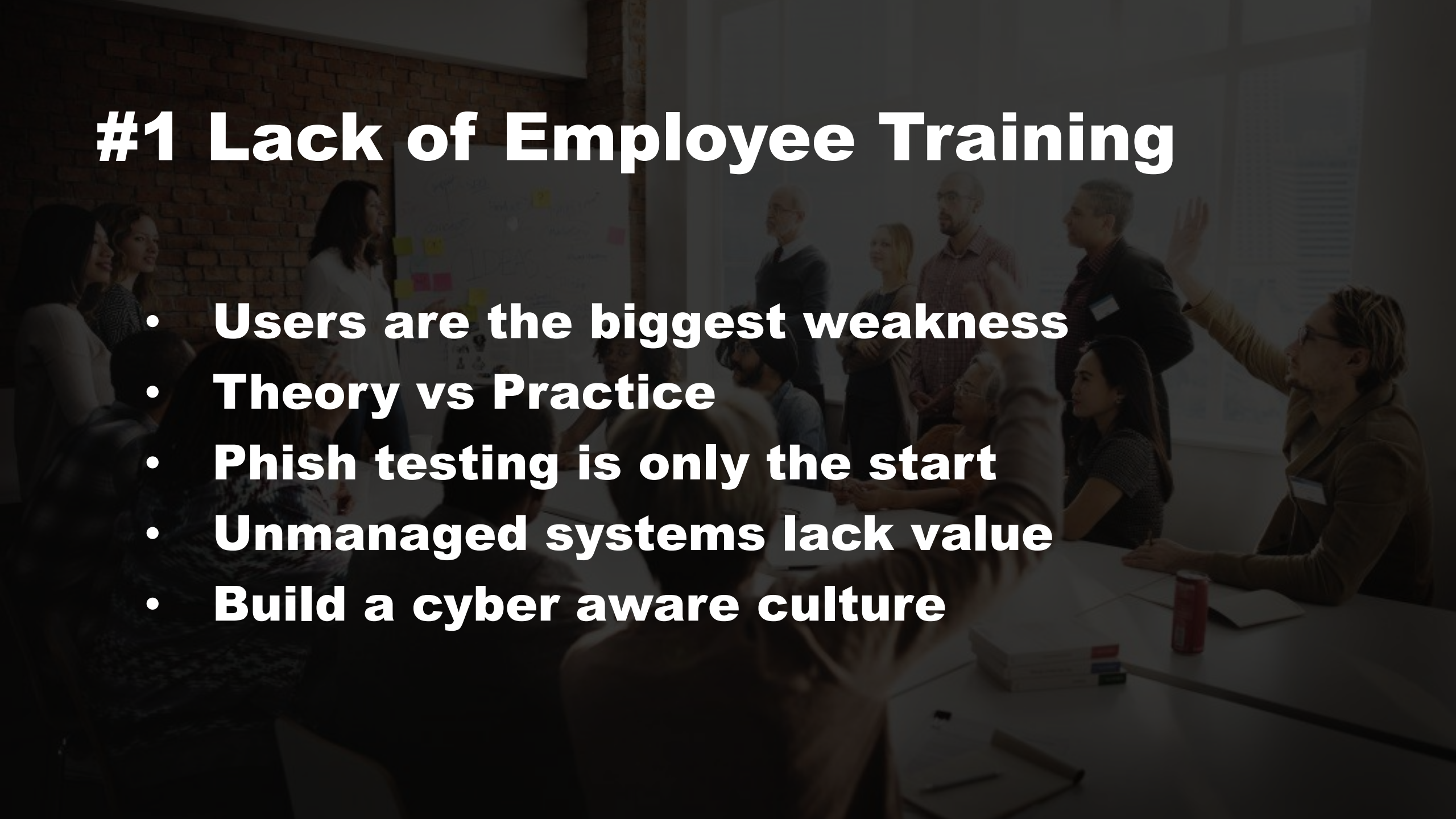
Top 5 Cybersecurity Weaknesses



#1 Lack of Employee Training

- Users are the biggest weakness
- Theory vs Practice
- Phish testing is only the start
- Unmanaged systems lack value
- Build a cyber aware culture

#1 Lack of Employee Training

What Does Good Look Like?

- **Scheduled**
- **Monitored**
- **Risky User Action Plans**
- **Reporting**

#2 Unknown System Bugs

- Not all things can be protected
- Updates / Patching is key

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#2 Unknown System Bugs

What Does Good Look Like?

- Know what systems you have
- Patch hardware & software monthly – quarterly
- Apply critical patches ASAP
- Manage patch health
- Be resilient

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#3 Lack of Cybersecurity Strategy

- Build towards resiliency
- Understand where your risk are
- Manage and reduce those risks
- Have an Incident Response Plan

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#3 Lack of Cybersecurity Strategy

What Does Good Look Like?

- **Perform a Risk Audit**
- **Cybersecurity Maturity Roadmap**
- **Tested Incident Response Plan**

#4 Lack of Monitoring

- Asset Management
- Threat Hunting

#4 Lack of Monitoring

What Does Good Look Like?

- **Clear reporting of users, licenses, subscriptions and devices**
- **Reporting of system health**
- **Properly managed Endpoint Detection & Response (EDR) software**

#5 Outdated Systems

- Software
- Operating Systems
- Typically seen in specialized industries
- The older the system, the worse it gets

#5 Outdated Systems

What Does Good Look Like?

- Do not use unsupported systems
- Segment outdated systems
- Wrap higher level security controls around higher risk systems

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Top Cybersecurity Weaknesses

#1 Lack of Employee Training
#2 Unknown System Bugs
#3 Lack of Cybersecurity Strategy
#4 Lack of Monitoring
#5 Outdated Systems

Resilience

The Future of Cybersecurity

- Cybersecurity Insurance Maturity
- Moving to Zero Trust
- Moving to Passwordless
- AI
- Budget Alignment
- Federal Guidance & Regulation

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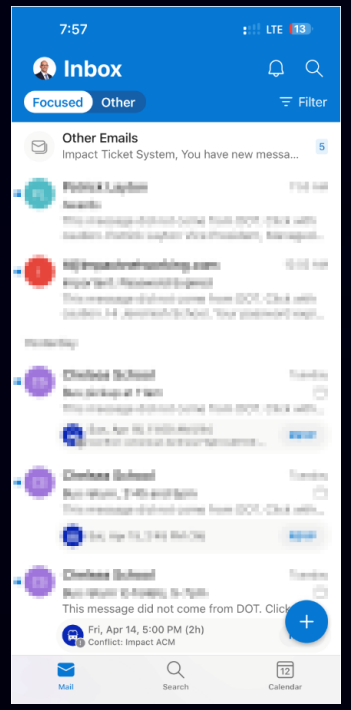
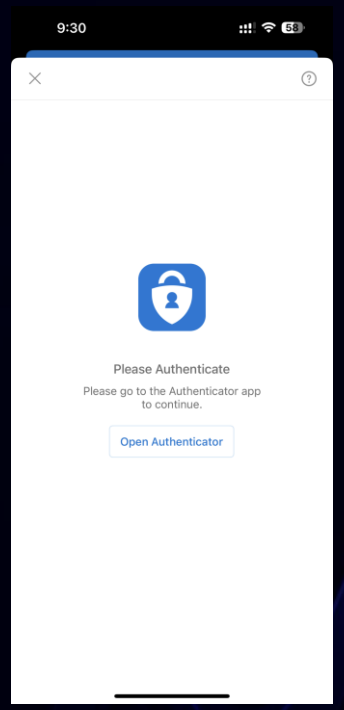
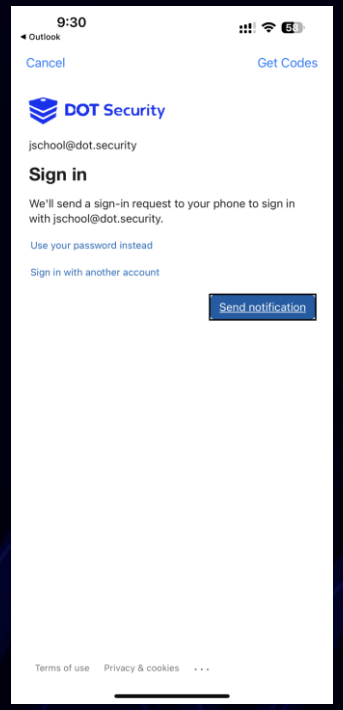
Passwordless



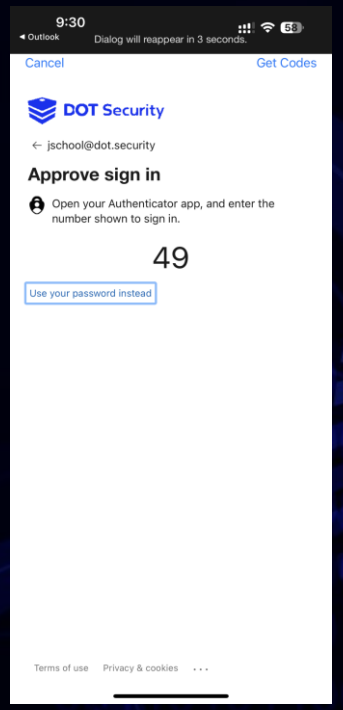
Open Outlook



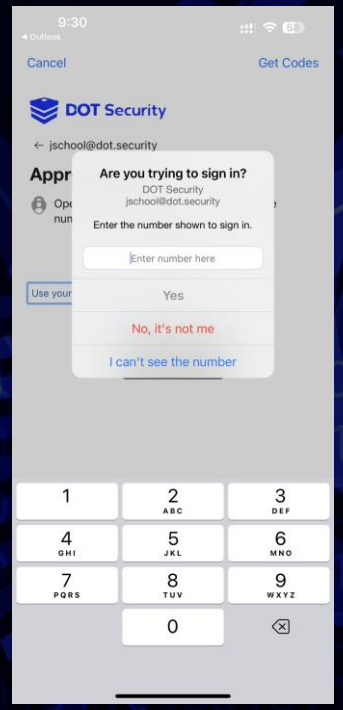
Prompted to Authenticate



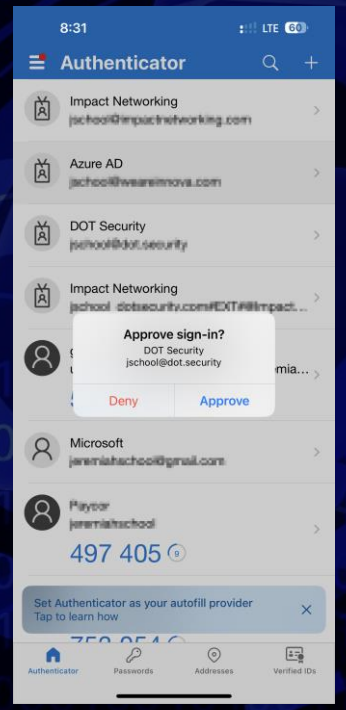
Authenticator prompts to send a login notification



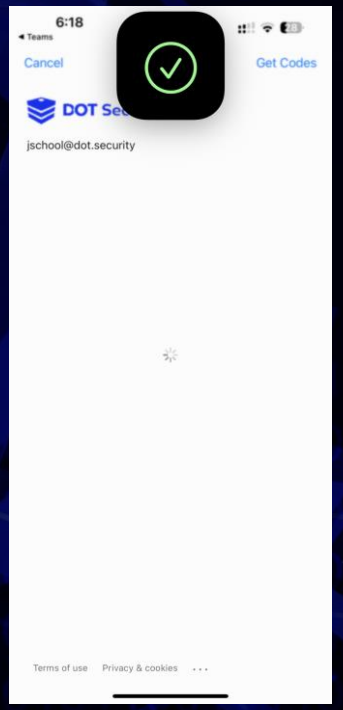
A 2 digit number is provided



The authenticator app asks for the number provided



Once entered, approval needs to be verified



Facial recognition is then validated

Q&A

Thank You