Overview of NIST Small Business Resources

January 30, 2024

NIST NATIONAL INSTITUTE OF STANDARDS AND TECHNOLOGY
U.S. DEPARTMENT OF COMMERCE

Celebrating 50+ Years in Cybersecurity

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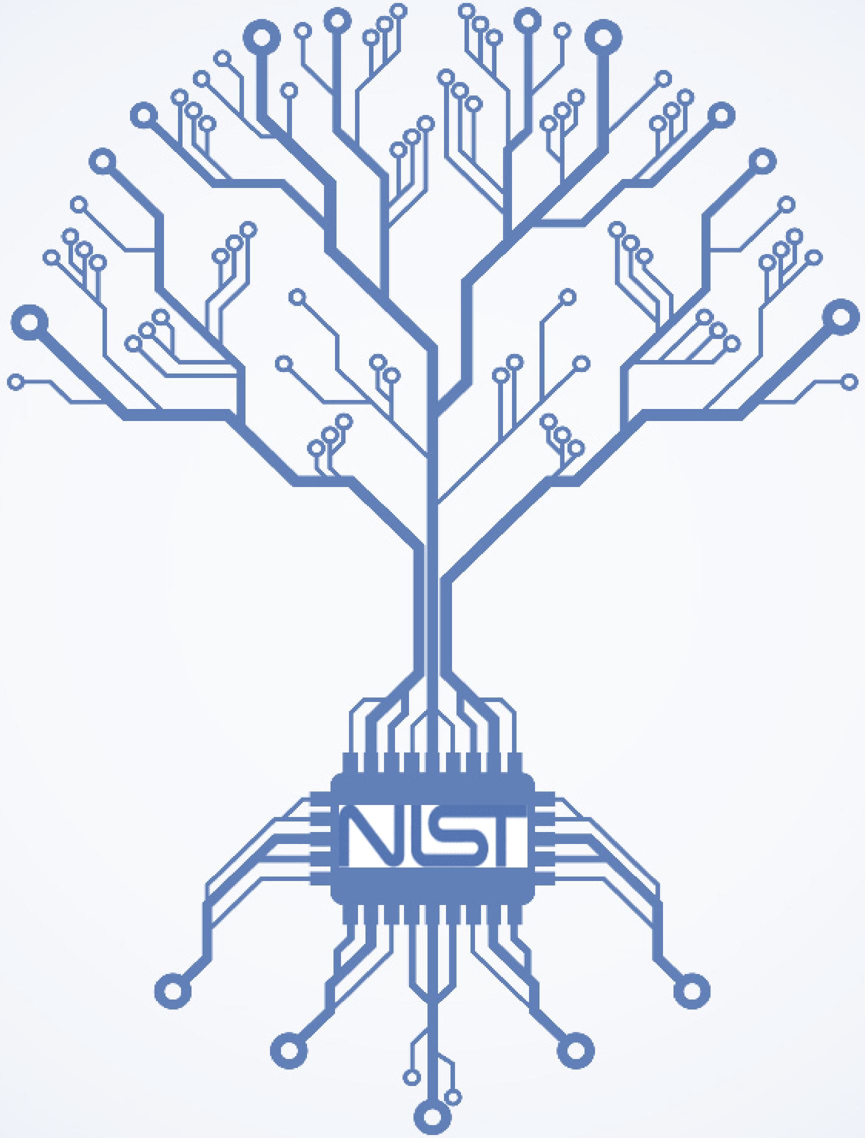
We **cultivate trust** by advancing cybersecurity & privacy **standards & guidelines**, **technology**, & **measurement science**.

nist.gov



Agenda

- NIST Small Business Cybersecurity Corner Website
- Hollings Manufacturing Extension Partnership (MEP)
- NIST Small Business Innovation Research (SBIR) Program
- Additional Resources

NIST Small Business Cybersecurity Corner

Your secure business is just around the corner.

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www.nist.gov/itl/smallbusinesscyber

Cybersecurity Basics

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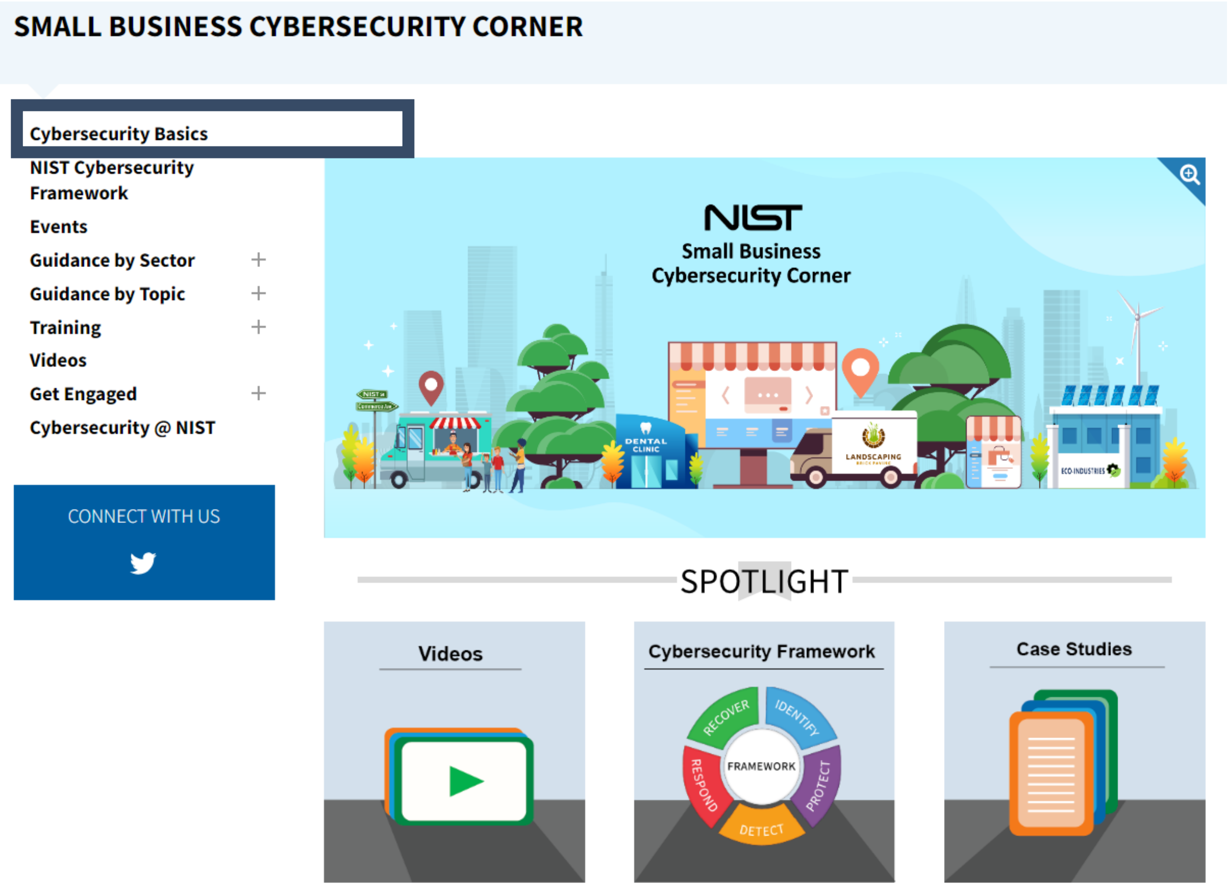

https://www.nist.gov/itl/smallbusinesscyber/cybersecurity-basics

- Understand that cyber threats are a business risk, and having strong cybersecurity is a competitive advantage.
- Enable multi-factor authentication on all accounts that offer it.
- Require strong passwords and consider using a password manager.
- Change default manufacturer passwords.
- Install and maintain updated antivirus software.
- Update and patch all software when new versions are available.
- Learn how to protect your business from phishing.
- Train employees on basic cybersecurity hygiene.

NIST Cybersecurity Framework (CSF)

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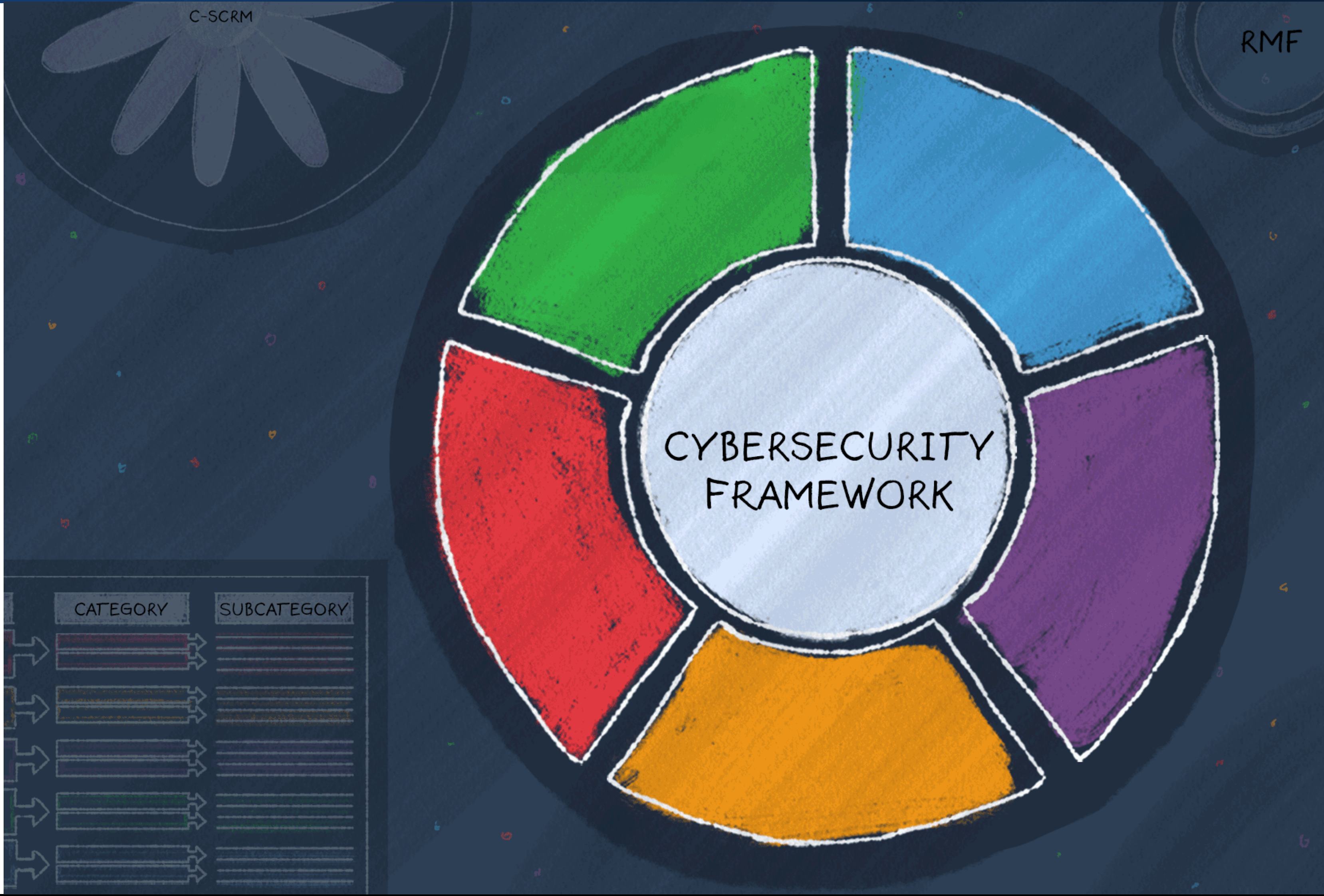
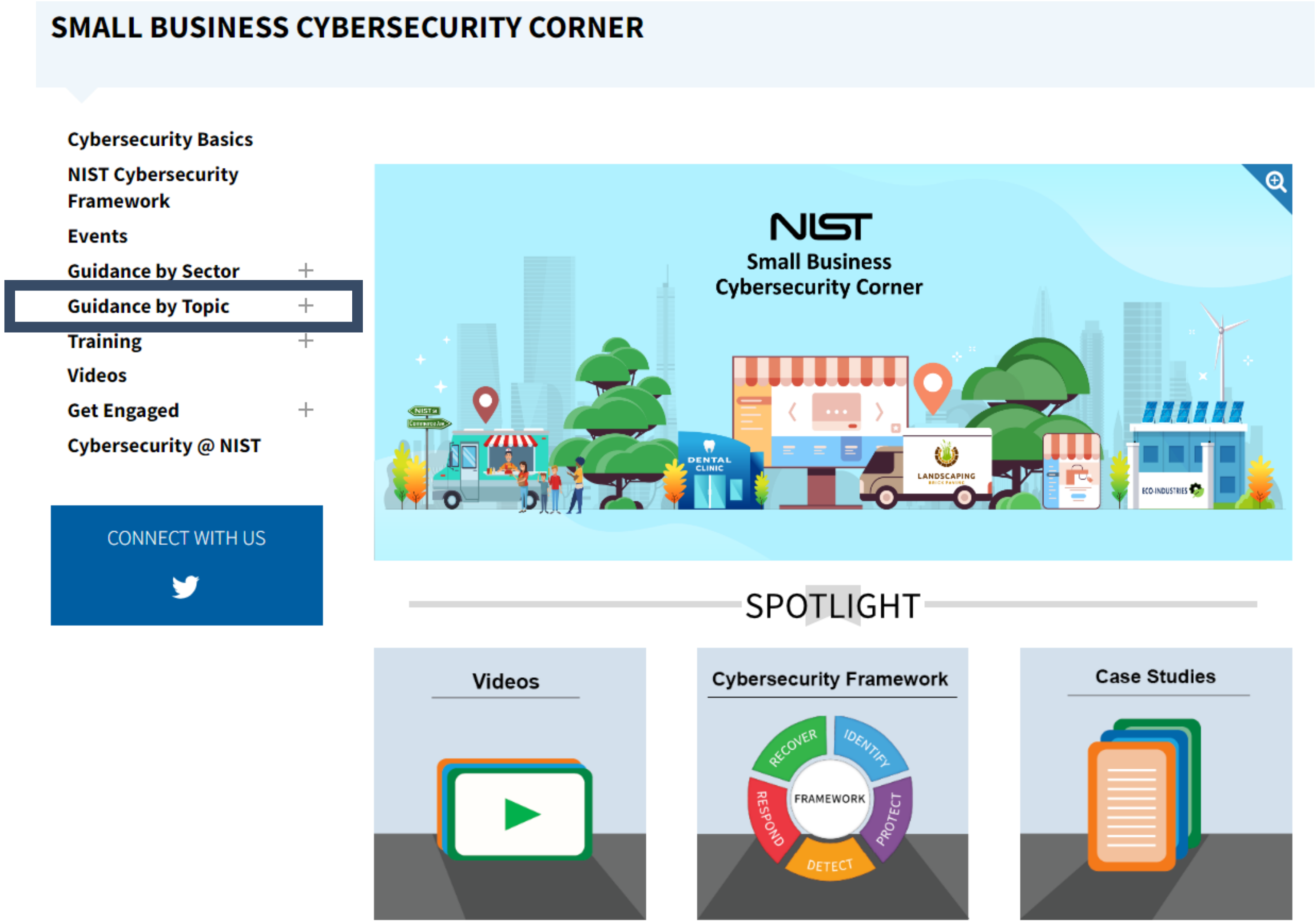
CSF Introductory Resources

- NIST's Cybersecurity Framework Quick Start Guide
- MEP's Cybersecurity Framework Steps for Small Manufacturers
- FTC's Understanding the NIST Cybersecurity Framework



www.nist.gov/itl/smallbusinesscyber/planning-guides/nist-cybersecurity-framework

Guidance by Topic



SMALL BUSINESS CYBERSECURITY CORNER

- Cybersecurity Basics
- NIST Cybersecurity Framework
- Events
- Guidance by Sector +
- Guidance by Topic +
- Training +
- Videos
- Get Engaged +
- Cybersecurity @ NIST

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Small Business
Cybersecurity Corner

SPOTLIGHT

Videos

Cybersecurity Framework

Case Studies

- ✓ All-Purpose Guides
- ✓ Choosing A Service Provider
- ✓ Cloud Security
- ✓ Cybersecurity Insurance
- ✓ Government Contractor Requirements
- ✓ Developing Secure Products
- ✓ Employee Awareness
- ✓ Multi-Factor Authentication
- ✓ Phishing
- ✓ Privacy
- ✓ Protecting Against Scams
- ✓ Ransomware
- ✓ Responding to a Cyber Incident
- ✓ Securing Data and Devices
- ✓ Securing Network Connections
- ✓ Telework

Short Videos

Phishing

Protecting Your Small Business: Ph…
BANK STATEMENT
Protecting Your Small Business:
Phishing

See the Phishing companion PDF here.

Multi-Factor Authentication

Protecting Your Small Business: M…
Protecting Your Small Business:
Multi-Factor Authentication

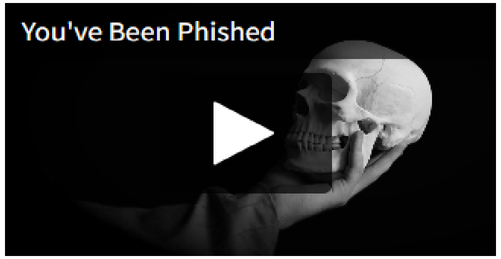
See the Multi-Factor Authentication companion PDF here.

Ransomware

Protecting Your Small Business: Ra…
Protecting Your Small Business:
Ransomware

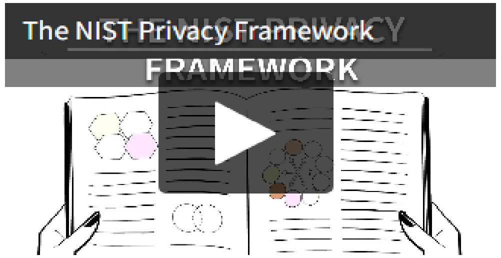
See the Ransomware companion PDF here.

You've Been Phished



NIST research has uncovered one reason, and the findings could help CIOs mount a better defense.

The NIST Privacy Framework

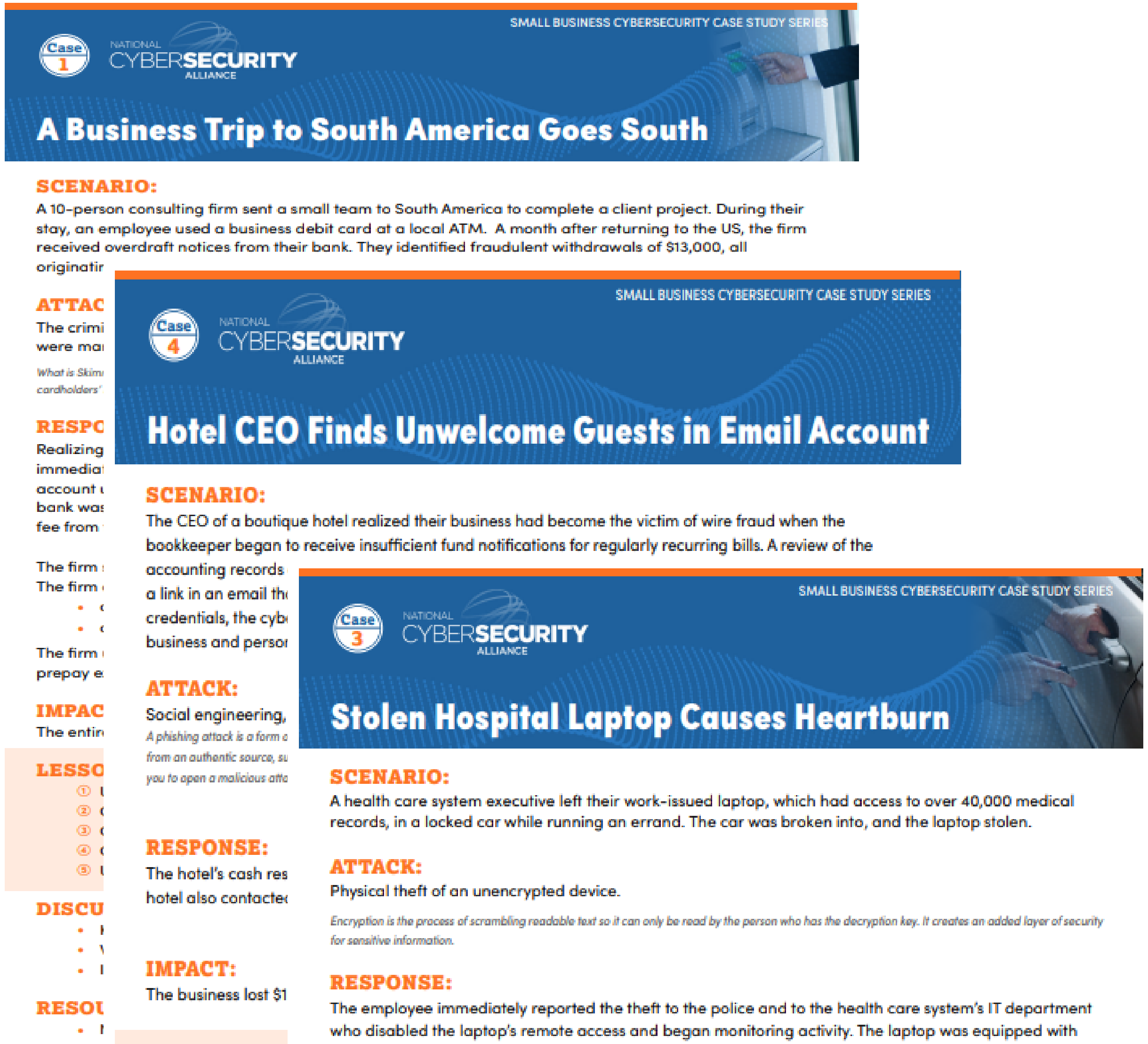


Learn more here.

Short videos that also include a companion PDF handout.

www.nist.gov/itl/smallbusinesscyber/videos

Small Business Case Studies



SMALL BUSINESS CYBERSECURITY CASE STUDY SERIES

Case 1 NATIONAL CYBERSECURITY ALLIANCE

A Business Trip to South America Goes South

SCENARIO:

A 10-person consulting firm sent a small team to South America to complete a client project. During their stay, an employee used a business debit card at a local ATM. A month after returning to the US, the firm received overdraft notices from their bank. They identified fraudulent withdrawals of $13,000, all originatir

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SMALL BUSINESS CYBERSECURITY CASE STUDY SERIES

Case 4 NATIONAL CYBERSECURITY ALLIANCE

Hotel CEO Finds Unwelcome Guests in Email Account

SCENARIO:

The CEO of a boutique hotel realized their business had become the victim of wire fraud when the bookkeeper began to receive insufficient fund notifications for regularly recurring bills. A review of the accounting records a link in an email th credentials, the cyb business and persor

ATTACK:

Social engineering,

A phishing attack is a form o from an authentic source, su you to open a malicious atta

RESPONSE:

The hotel's cash res hotel also contacted

IMPACT:

The business lost $1

SMALL BUSINESS CYBERSECURITY CASE STUDY SERIES

Case 3 NATIONAL CYBERSECURITY ALLIANCE

Stolen Hospital Laptop Causes Heartburn

SCENARIO:

A health care system executive left their work-issued laptop, which had access to over 40,000 medical records, in a locked car while running an errand. The car was broken into, and the laptop stolen.

ATTACK:

Physical theft of an unencrypted device.

Encryption is the process of scrambling readable text so it can only be read by the person who has the decryption key. It creates an added layer of security for sensitive information.

RESPONSE:

The employee immediately reported the theft to the police and to the health care system's IT department who disabled the laptop's remote access and began monitoring activity. The laptop was equipped with

1-page case studies, each including:

- Brief scenario
- Impact to business
- Lessons learned
- Discussion questions
- Related resources

More to come!

nist.gov/itl/smallbusinesscyber/cybersecurity-basics/case-study-series

The NIST Small Business Community of Interest (COI)

Over 7,000 individuals have already joined the full COI!

Convening companies, trade associations, and others who can share business insights, expertise, challenges, and perspectives to guide our work and assist NIST to better meet the cybersecurity needs of small businesses.

Learn More Here: https://www.nist.gov/itl/smallbusinesscyber/get-engaged

Manufacturing Extension Partnership (MEP)

NIST | MANUFACTURING EXTENSION PARTNERSHIP

Providing any U.S. manufacturer with access to resources they need to succeed.

https://www.nist.gov/mep

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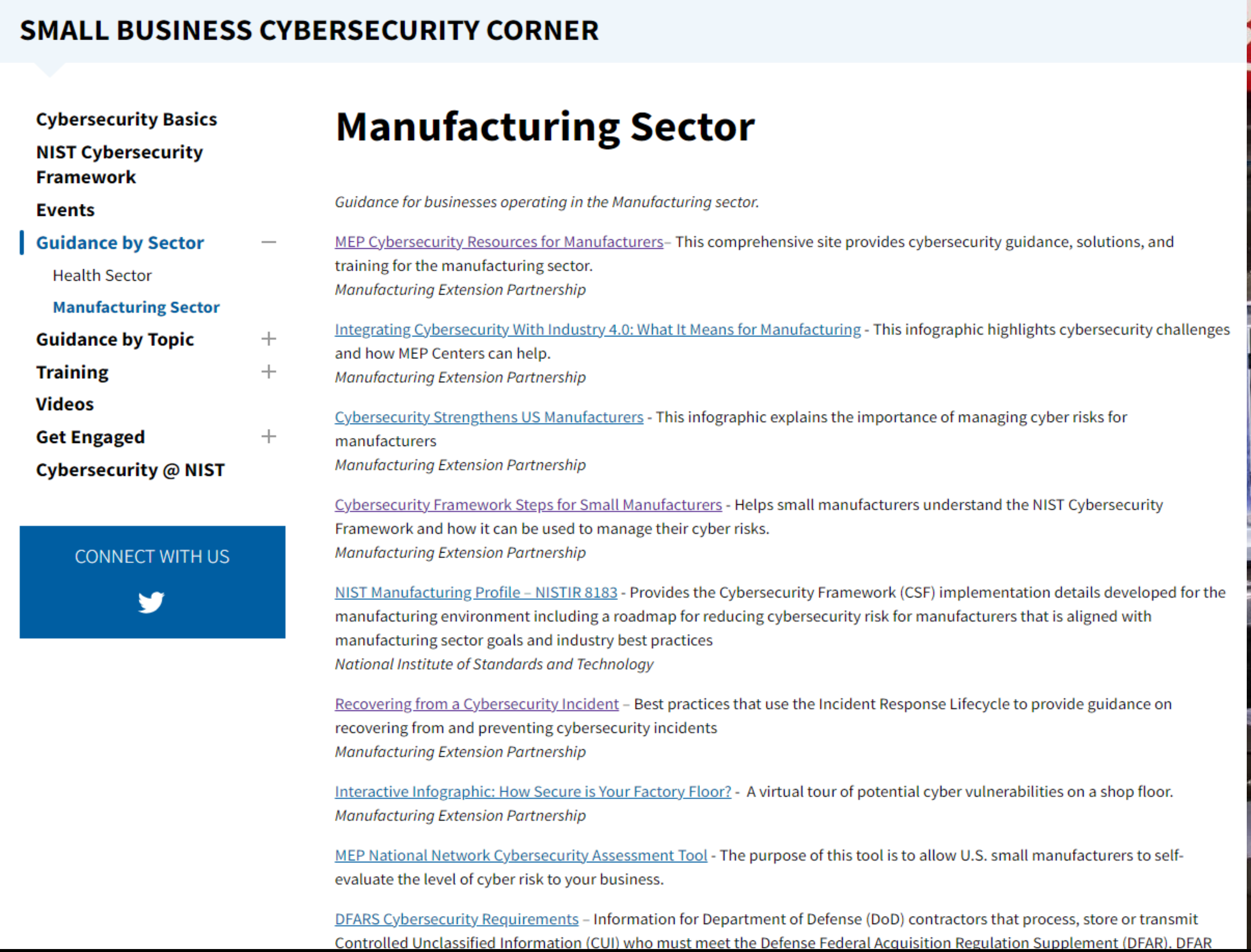
Additional Manufacturing Resources



SMALL BUSINESS CYBERSECURITY CORNER

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  - Health Sector
  - Manufacturing Sector
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- Cybersecurity @ NIST

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Manufacturing Sector

Guidance for businesses operating in the Manufacturing sector.

MEP Cybersecurity Resources for Manufacturers– This comprehensive site provides cybersecurity guidance, solutions, and training for the manufacturing sector.
Manufacturing Extension Partnership

Integrating Cybersecurity With Industry 4.0: What It Means for Manufacturing - This infographic highlights cybersecurity challenges and how MEP Centers can help.
Manufacturing Extension Partnership

Cybersecurity Strengthens US Manufacturers - This infographic explains the importance of managing cyber risks for manufacturers
Manufacturing Extension Partnership

Cybersecurity Framework Steps for Small Manufacturers - Helps small manufacturers understand the NIST Cybersecurity Framework and how it can be used to manage their cyber risks.
Manufacturing Extension Partnership

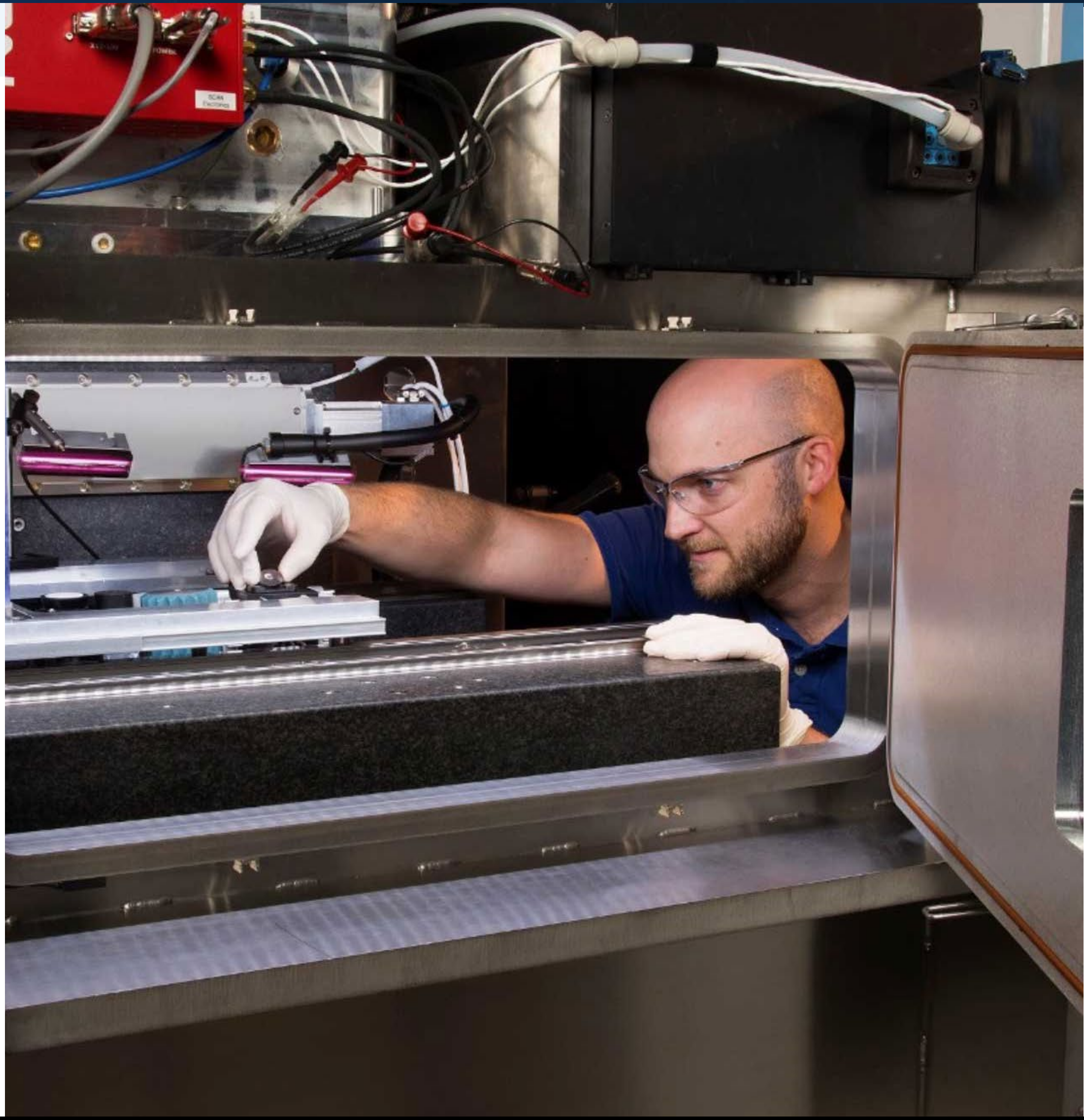
NIST Manufacturing Profile – NISTIR 8183 - Provides the Cybersecurity Framework (CSF) implementation details developed for the manufacturing environment including a roadmap for reducing cybersecurity risk for manufacturers that is aligned with manufacturing sector goals and industry best practices
National Institute of Standards and Technology

Recovering from a Cybersecurity Incident – Best practices that use the Incident Response Lifecycle to provide guidance on recovering from and preventing cybersecurity incidents
Manufacturing Extension Partnership

Interactive Infographic: How Secure is Your Factory Floor? - A virtual tour of potential cyber vulnerabilities on a shop floor.
Manufacturing Extension Partnership

MEP National Network Cybersecurity Assessment Tool - The purpose of this tool is to allow U.S. small manufacturers to self-evaluate the level of cyber risk to your business.

DFARS Cybersecurity Requirements – Information for Department of Defense (DoD) contractors that process, store or transmit Controlled Unclassified Information (CUI) who must meet the Defense Federal Acquisition Regulation Supplement (DFAR). DFAR



https://www.nist.gov/itl/smallbusinesscyber/health-sector/manufacturing-sector

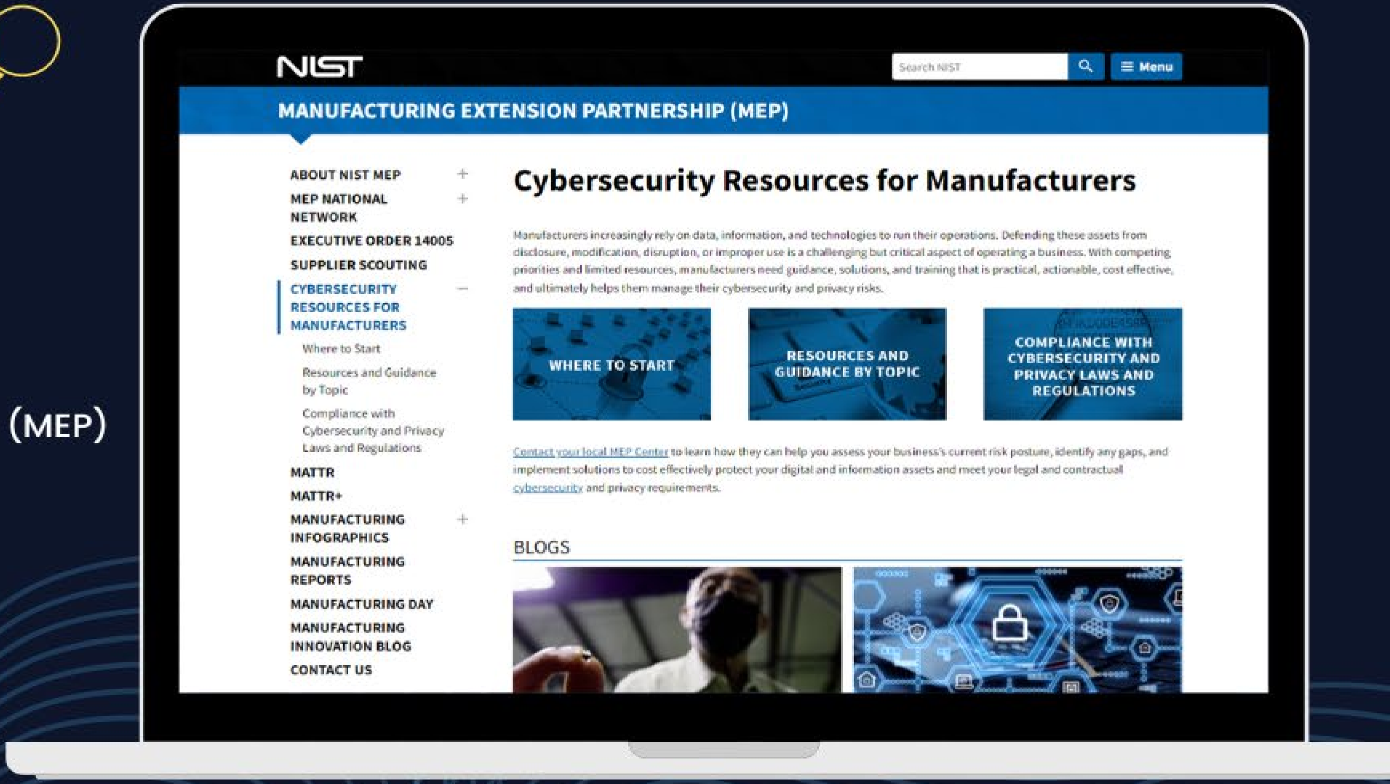
Upcoming Webinar

Cybersecurity Resources for Small to Medium-Sized Manufacturers

A Fireside Chat with the NIST Manufacturing Extension Partnership (MEP)

May 2, 2024

2:00 PM -2:45 PM ET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MANUFACTURING EXTENSION PARTNERSHIP (MEP)
ABOUT NIST MEP +
MEP NATIONAL NETWORK +
EXECUTIVE ORDER 14005
SUPPLIER SCOUTING
CYBERSECURITY RESOURCES FOR MANUFACTURERS —
Where to Start
Resources and Guidance by Topic
Compliance with Cybersecurity and Privacy Laws and Regulations
MATTR
MATTR+
MANUFACTURING INFOGRAPHICS +
MANUFACTURING REPORTS
MANUFACTURING DAY
MANUFACTURING INNOVATION BLOG
CONTACT US
WHERE TO START
RESOURCES AND GUIDANCE BY TOPIC
COMPLIANCE WITH CYBERSECURITY AND PRIVACY LAWS AND REGULATIONS
BLOGS

Cybersecurity Resources for Manufacturers

Manufacturers increasingly rely on data, information, and technologies to run their operations. Defending these assets from disclosure, modification, disruption, or improper use is a challenging but critical aspect of operating a business. With competing priorities and limited resources, manufacturers need guidance, solutions, and training that is practical, actionable, cost effective, and ultimately helps them manage their cybersecurity and privacy risks.

Contact your local MEP Center to learn how they can help you assess your business's current risk posture, identify any gaps, and implement solutions to cost effectively protect your digital and information assets and meet your legal and contractual cybersecurity and privacy requirements.

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https://www.nist.gov/itl/smallbusinesscyber/events

NIST SBIR Program

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U.S. DEPARTMENT OF COMMERCE

AMERICA'S SEED FUND SBIR·STTR | POWERED BY SBA U.S. Small Business Administration

SBIR Program goals:

1. To increase private sector commercialization of innovations derived from federal R&D;
2. To use small business to meet federal research and development (R&D) needs;
3. To stimulate small business innovation in technology; and
4. To foster and encourage participation by minority and disadvantaged persons in technological innovation.

- NIST's SBIR program is grant-based, and awards are cooperative agreements.
- NIST issues an annual Notice of Funding Opportunity (NOFO) for SBIR Phase I proposals.
- Science and technology-based firms with strong research capabilities in any of the areas listed in the NOFO are encouraged to participate.
- Phase II awards are limited to small businesses that have successfully completed Phase I projects.

https://www.nist.gov/tpo/small-business-innovation-research-program-sbir

Engage with NIST

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Attend our events: https://www.nist.gov/itl/smallbusinesscyber/events

Become an active participant in one of our COI sub-groups: https://www.nist.gov/itl/smallbusinesscyber/about-contact-us/subscribe

Send questions, comments, project ideas or request a speaker for your event: smallbizsecurity@nist.gov

Submit comments on our publications: csrc.nist.gov/publications/drafts-open-for-comment

Become a collaborator on an NCCoE project: https://www.nccoe.nist.gov/seeking-collaborators

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Questions?

https://www.nist.gov/itl/smallbusinesscyber

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