



The Office of the State Controller's Audit, Risk, and Compliance Services staff are pleased to announce our upcoming internal controls webinar – Cybersecurity – The Best Defense Is A Good Offense.

The webinar, which will be held on Tuesday, April 26, 2022, will begin promptly at 10:00 am. The Webinar is being provided at no charge to all state agencies, universities, and community colleges and qualifies for one hour of Continuing Professional Education (CPE) credit.

The suggested audience for this webinar includes staff responsible for system and organizational controls.

Each participant who plans to view the webinar and/or request CPE credit must register in advance. No CPE credit will be provided to non-registered participants.

For further information, please visit our website.

For any questions you have regarding the registration process, please contact Jan Prevo at 919-707-0714 or jan.prevo@osc.nc.gov.

Thank you,

Ben McLawhorn

OSC WEBINAR

Cybersecurity - The Best Defense Is A Good Offense
April 26, 2022 - 10:00 AM to 11:00 AM



Course Description

This cybersecurity session will share key findings from working as a member of the NC Joint Cybersecurity Task Force on 55+ cyber incidents in the past three years. Major topics to be covered include how to best prepare for the inevitable, common threats and vulnerabilities, essential tools for protecting your organization, and understanding cyber liability insurance. This session will be interactive so bring your questions, concerns, complaints, and most importantly, ideas to share with your colleagues as we all navigate the threat-filled waters together.

Course Objectives

- Create general cybersecurity awareness for all participants in professional and personal settings.
- Describe the most common threats facing public sector entities based on recent cyber incident responses.
- Highlight strategies to better protect your organization's information and your personal information.
- Provide an overview of the changing landscape of cyber liability insurance.

Date and Time:

Tuesday, April 26, 2022 – 10:00 – 11:00 AM

Who Will Benefit:

Front-line managers, supervisors, and staff in accounting, finance, and auditing who are focused on process improvement.

CPE Logistics

CPE Credit: One (1) hour

Field of Study: Information Technology

Materials: Will be provided on [OSC website](#)

Instructional Delivery Method: Group internet based

Prerequisites: None

Advance Preparation: None

Level: Basic

Webinar Developer: [UNC Chapel Hill Center for Public Technology](#)

Webinar Sponsor: [NC Office of the State Controller](#)

NOTE: There will be NO site administrator or group registrations for this webinar. During the webinar, participants are required to be individually logged on for no less than 50 minutes of the webinar and respond to three polling questions to receive CPE credit. Your time will be tracked to accurately award one (1) hour of CPE credit.

Speaker:

Shannon H. Tufts

Professor of Public Law and Government and Director, Center for Public Technology

Shannon Tufts is a professor of public law and government and is the director of the University of North Carolina at Chapel Hill's Center for Public Technology. She designed and implemented the first local government Certified Government Chief Information Officers (CGCIO) program in the nation in 2004 and continues to run multiple CIO certification programs across the US for local and state government IT professionals. Dr. Tufts' areas of expertise include the intersection of law and technology in the public sector, cybersecurity, cloud computing, social media, and strategic IT investments, as well as CIO leadership and development. Tufts earned a B.A. from UNC–Chapel Hill, an M.P.A. from UNC–Charlotte, and a Ph.D. in public administration with a concentration in public sector information systems from North Carolina State University.

Shannon H. Tufts

Professor of Public Law and Government and Director, Center for Public Technology



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Fields of Expertise

Center for Public Technology

Information Technology

Social Media (Government Use)

Survey Methodology

Technology



**TOP 10 CYBERSECURITY TRENDS:
BASED ON RECENT NC PUBLIC SECTOR
CYBER INCIDENTS**

SHANNON TUFTS, PHD
UNC SCHOOL OF GOVERNMENT
NCLGISA CYBERSECURITY STRIKE TEAM , NC JCTF

IT Strike Team

Significant Cyber Incident Statistics

- Significant cyber attacks happen every 14 seconds
- Increase of 350% since 2018

NC Public Sector Statistics

- 2019: 10 (reported) significant cyber incidents
- 2020,: 24 significant cyber incidents
- 2021: 20+ significant cyber incidents
- 2022: 9 significant cyber incidents as of March 30, 2022
- Downtime from significant cyber incidents increased 200 percent



AVERAGE BREACH STATISTICS

- Less than 50% of breaches get detected internally
- ~191-197 days to ID a breach
- ~ 66-69 days to contain it
- Average recovery takes 6-9 months
- Most entities only recover 80% of data/functionality due to encryption
- Typically takes 16.7 days to bring network back up in most limited way

TOP 10 TRENDS



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NEW NC LEGISLATION RELATED TO CYBER SECURITY INCIDENTS & RANSOM PAYMENTS

G.S. 143B-1320, AMENDED BY SL2021-180

G.S. 143B-1379(C), AMENDED BY SL2021-180

G.S. 143-800, AMENDED BY SL2021-180

ARTICLE 84, VARIOUS TECHNOLOGY REGULATIONS.

GS143-800: STATE ENTITIES AND RANSOMWARE PAYMENTS.

- (a) No State agency or local government entity shall submit payment or otherwise communicate with an entity that has engaged in a cybersecurity incident on an information technology system by encrypting data and then subsequently offering to decrypt that data in exchange for a ransom payment.

- (b) Any State agency or local government entity experiencing a ransom request in connection with a cybersecurity incident shall consult with the Department of Information Technology in accordance with G.S. 143B-1379.

- (c) The following definitions apply in this section:
 - (1) Local government entity. – A local political subdivision of the State, including, but not limited to, a city, a county, a local school administrative unit as defined in G.S. 115C-5, or a community college.

CYBERSECURITY INCIDENT REPORTING REQUIREMENT

G.S. 143B-1379(C), AMENDED BY SL2021-180

(c) Local government entities, as defined in **G.S. 143-800(c)(1)**, shall report cybersecurity incidents to the Department. Information shared as part of this process will be protected from public disclosure under G.S. 132-6.1(c). Private sector entities are encouraged to report cybersecurity incidents to the Department.

GS143-800(c)(1): Local government entity. – A local political subdivision of the State, including, but not limited to, a city, a county, a local school administrative unit as defined in G.S. 115C-5, or a community college.

A SIGNIFICANT CYBERSECURITY INCIDENT...

- **G.S. 143B-1320(a)(14a)** Ransomware attack. – A cybersecurity incident where a malicious actor introduces software into an information system that encrypts data and renders the systems that rely on that data unusable, followed by a demand for a ransom payment in exchange for decryption of the affected data.
- **G.S. 143B-1320(a)(16a)** Significant cybersecurity incident. – A cybersecurity incident that is likely to result in demonstrable harm to the State's security interests, economy, critical infrastructure, or to the public confidence, civil liberties, or public health and safety of the residents of North Carolina. A significant cybersecurity incident is determined by the following factors:
 - a. Incidents that meet thresholds identified by the Department jointly with the Department of Public Safety that involve information: 1. That is not releasable to the public and that is restricted or highly restricted according to Statewide Data Classification and Handling Policy; or 2. That involves the exfiltration, modification, deletion, or unauthorized access, or lack of availability to information or systems within certain parameters to include (i) a specific threshold of number of records or users affected as defined in G.S. 75-65 or (ii) any additional data types with required security controls.
 - b. Incidents that involve information that is not recoverable or cannot be recovered within defined timelines required to meet operational commitments defined jointly by the State agency and the Department or can be recovered only through additional measures and has a high or medium functional impact to the mission of an agency

WHO YOU GONNA CALL?





NC Joint Cyber Task Force (JCTF)

State & Local Partners

NC National Guard G6
NC DIT
NC DPS
NCEM Cyber Unit
NC ISAAC
NCLGISA Cyber Strike
Team

Federal Partners

FBI
USSS
DHS-CISA

Other Partners

Based on Event

911
NC SBI
SBoE
DHHS
DPI
MCNC
NC Community
College System

METHODS OF CONTACT TO REPORT CYBERSECURITY INCIDENT

- **NC EM 24 Hr Watch:** 800-858-0368 (monitored 24/7)
- **NCLGISA Strike Team:** itstriketeam@nclgisa.org or (919) 726-6508 (monitored 24/7)
- **FBI IC3:** <https://www.ic3.gov/>
 - If you have a situation involving financial fraud, please contact the FBI first because there is a ~72 hour window for fund recovery before it is moved off-shore.
- **NCDIT:** <https://it.nc.gov/resources/cybersecurity-risk-management/statewide-cybersecurity-incident-report-form>

2

SOCIAL ENGINEERING

The clever manipulation
of the natural human
tendency to trust.

CYBER SECURITY KNOWLEDGE



What does the https:// at the beginning of a URL mean?

1. The site has special high definition
2. The information entered into the site is encrypted
3. The site is the newest version available
4. The site is not accessible to certain computers
5. I have no clue!



All Financial, PII, PHI (and more)
Collections Must Use HTTPS://

RECOGNIZE THESE?

- What was your favorite teacher's name?
- What was the name of your childhood pet?
- What was your childhood best friend's name?
- What was the first car you had?
- Where were you born?
- What was the name of your high school?



SPREADING HOLIDAY CHEER!

The Amazon logo is centered on a white rectangular background. It features the word "amazon" in a lowercase, black, sans-serif font. Below the text is a curved orange arrow that starts under the letter 'a' and points to the right, ending under the letter 'n'.

Voice Phishing Example



CYBER SECURITY KNOWLEDGE



Does Amazon, Apple, Facebook, or the IRS ever call you on the phone unannounced?



3



4

NEW (& OLD) METHODS OF ATTACK

DATA EXFILTRATION W/O ENCRYPTION

- Conducted via various tactics, like SQL injections or TA access to data within systems
- Ransom note may be posted but not a normal practice
- Data is either sold on dark web and/or posted publicly for free
- Recent cases indicate the impacted entity was unaware of the data exfiltration until it was found posted on the internet by a 3rd party
- Breach notification may be required depending on the type of data exfiltrated

LEGAL ISSUES WITH DATA EXFIL



- Most agencies don't have sufficient logging to determine what data was removed
- Hard to validate extent of breach notice requirements

CYBER SECURITY KNOWLEDGE



Criminals access someone's computer and encrypt the files/data. The user is unable to access the data unless they pay the criminals to decrypt the files. This is called:

1. Botnet
2. Ransomware
3. Driving
4. Spam
5. I have no clue!

Pro Tip

Never Pay!



RANSOMWARE: WHAT IS IT?



- Ransomware is a type of malware that attempts to extort money from user or organization by infecting or taking control of the victim's computer, files, servers, etc.
- Ransomware usually encrypts files, folders, machines, servers to prevent access and use unless the ransom is paid to receive the decryption key.
- Data exfiltration has become more widespread as part of ransomware events in the past 16-19 months.

TIMELINE OF A RANSOMWARE ATTACK

Month
1

- An employee opens a phishing email and clicks on a link containing ransomware.

Month
2

- The ransomware downloads onto the employee's computer and starts executing malicious code.

Month
3

- The ransomware creates a connection via the Internet with the threat actor's command and control (C2) server.

Month
4

- The ransomware steals/harvests credentials to gain access to more accounts.

Month
5

- The ransomware looks for files to encrypt on local computers and on servers via the network, moving laterally across the network to compromise multiple accounts. Data exfiltration might also be occurring during this timeframe.

Month
6

- The ransomware starts the encryption process, typically attacking domain controllers and backups first. The government is now aware they have been compromised. The threat actor leaves a ransom note demanding payment in exchange for the decryption key.

COMMON ATTACK VECTORS

- Phishing emails loaded w/ malware
- Password brute forcing
- Remote Desktop Protocol
- VPN exploits
- Other unpatched CVEs
 - Microsoft applications
- Outdated infrastructure
- **Open ports per vendor instructions**



CYBER SECURITY KNOWLEDGE



True or False:
A “phishing” email can
be used to initiate a
ransomware attack.



**Business Email
Compromise:**
**The \$9 Billion Security
Threat You Can't Ignore**

**JUST A
NORMAL
DAY...**

**MAKING
MOVES,
PROCESSING
PAYMENTS**

From: dpacer@tarheelpaving.com <dpacer@tarheelpaving.com>

Sent: Tuesday, July 13, 2021 7:44 AM

To: Joel B. Setzer <jsetzer@VaughnMelton.com>; Joel F. Hart <jfhart@VaughnMelton.com>

Subject: RE: [REDACTED] Invoice

Good morning Joel,

Please see the following.

Best, Derrick

From: Joel B. Setzer <jsetzer@VaughnMelton.com>

Sent: Tuesday, July 13, 2021 6:06 AM

To: dpacer@tarheelpaving.com; Joel F. Hart <jfhart@VaughnMelton.com>

Subject: RE: [REDACTED] Invoice

Importance: High

Derrick,

Please recall you need to make a revision to the last invoice submitted. Please recall the unit price discussion for the \$9.5C.

Send the revised invoice to me and Joel Hart.

Joel,

If all looks good, forward with your recommendation to pay.

From: dpacer@tarheelpaving.com <dpacer@tarheelpaving.com>

Sent: Monday, July 12, 2021 5:39 PM

To: Joel B. Setzer <jsetzer@VaughnMelton.com>; Joel F. Hart <jfhart@VaughnMelton.com>

Subject: [REDACTED] Invoice

Joel,

Just wanted to check in, we are milling as we speak and the repair will be done tonight. Can you please process the invoice and get payment in the works as soon as possible.

Best, Derrick

Disclaimer

WHAT CAN POSSIBLY GO WRONG?

Joel



JOEL SETZER, PE | OFFICE LEADER | SYLVA NC OFFICE
C: 828.226.8158 | O: 828.477.4993 | www.vaughnmelton.com

DEPENDABLE | PROACTIVE | CREATIVE | EMPATHETIC | CONSCIENTIOUS

P.E. Registration States: NC, KY, TN, GA, SC

From: Derrick pace <dpace@tarhealpaving.com>
Sent: Tuesday, July 13, 2021 9:30 AM
To: Joel B. Setzer <jbsetzer@VaughnMelton.com>
Cc: Joel F. Hart <jfhart@VaughnMelton.com>
Subject: Re: FW: [REDACTED] Invoice

Hi Joel/Hart,

Find the attachment for our new bank details and make sure the payment is sent by ACH or Wire Transfer.

Let me know if you need anything else.

Best, Derrick

Disclaimer

The information contained in this communication from the sender is confidential. It is intended solely for use by the recipient and others authorized to receive it. If you are not the recipient, you are hereby notified that any disclosure, copying, distribution or taking action in relation of the contents of this information is strictly prohibited and may be unlawful.

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On Tue, Jul 13, 2021 at 3:58 PM Joel B. Setzer <jbsetzer@vaughnmelton.com> wrote:

Joel,

The quantities match the prior invoice. Per your prior email, I am assuming the quantities match your record. Please advise asap if there are any differences.

Seth,

We are hoping to close out the fiscal part of the project to assist with County accounting processes. The last discussions were mid-June. At the time, the concrete had passed testing and we were awaiting the asphalt testing results. Can this be expedited as it is needed to get closure?

**SEEMS GOOD
TO ME
SO LET'S CUT
THAT CHECK!**

From: Marcus [REDACTED]
To: Samantha [REDACTED]
Cc: Randall [REDACTED]
Subject: FW: Tarheel Invoice - Recommendation to Pay
Date: Friday, July 16, 2021 4:40:25 PM
Attachments: [image001.png](#)
[Paving & Asphalt Bank Details.pdf](#)

Sam,

Next week we should get the approved invoice from Tarheel for the paving project at Solid Waste. The contractor's payment information is attached and note the highlighted information below from the engineer regarding timing for the work completed; I agree.

Thanks and please let me know if you have any questions,
Marcus

From: Joel B. Setzer <jbsetzer@VaughnMelton.com>
Sent: Wednesday, July 14, 2021 1:34 PM
To: Marcus [REDACTED].gov>
Cc: Joel F. Hart <jfhart@VaughnMelton.com>
Subject: Tarheel Invoice - Recommendation to Pay

Good Afternoon,

We have evaluated the testing reports on the asphalt pavement. All aspects of the reports indicate full compliance with NCDOT specifications, except the density achieved on the surface (S9.5C) mix. The density requirements for this mix is 92% and they achieved an average of 90.9% on the four areas. Area 1, which carries the highest volume and weight of trucks did get a 92.0% density.

NCDOT does have waivers for "small quantities" which would also apply.

Given that the asphalt is in specifications in all other categories and given the highest volume area is meeting density, it is my recommendation to accept the work and pay Tarheel the invoice.

In regards to what was done before June 30 and after, all of this work was done prior to June 30. The slipped area repaired did not create any new pay quantities because it was basically warranty work.

My recommendation is based upon an assumption that the repaired slipped area is still performing well. If it is not, please let me know.

Let me know if we need to discuss any of this information or the recommendation.

Thanks,

BUT THINGS WEREN'T AS THEY APPEARED



DID YOU CATCH IT?

From: dpace@tarheelpaving.com <dpace@tarheelpaving.com>
Sent: Tuesday, July 13, 2021 7:44 AM
To: Joel B. Setzer <jbssetzer@VaughnMelton.com>; Joel F. Hart <jfhart@VaughnMelton.com>
Subject: RE: [REDACTED] invoice

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Subject: RE: [REDACTED] Invoice
Importance: High

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BUSINESS EMAIL COMPROMISE SCAMS & DIRECT DEPOSIT SCAMS ARE PREVENTABLE.



- Question everything
- Require a formal process for changes, including physical confirmation
- Ask IT to review before changes are made

5

6

7

8

NEW ATTACK VECTORS



COMPROMISED VENDOR CREDENTIALS & NON-IT MANAGED EQUIPMENT

- Vendors aren't changing their service account passwords
- Breach within the past 6 months occurred due to this issue
- Who is liable?
- What about those Linux/SQL servers that someone in admin is running?

EXPOSED PORTS/DATABASES

A free service (Shodan) shows open ports/publicly exposed:

- 3389
 - 2701
 - 389/636
 - 445
 - ICS (HVAC)
 - Printers
- Who is managing your firewalls?

PAY ATTENTION TO CVEs

- Unpatched systems are the TA's best friend
- 80+% of all events related to unpatched systems
- Strike Team offers Nessus scans & Shodan reports for local governments
- NC DIT ESRMO offers these for state agencies

HYPER-V, RDP, PLEASE SAVE ME!

- Hyper-V usually domain joined....
 - Takes down phones, printers, etc
- Just Say No to RDP!
 - If you have to say yes, then MFA is a MUST for all users

9

NEW CYBER LIABILITY INSURANCE REQUIREMENTS



INSURANCE = RISKY BUSINESS

- Pay out has been too high for the industry to maintain profit margin
- Ave cost of cyber incident is \$8.83 million
- Ransomware and data exfiltration leading causes of higher payouts
- Expect 15-30% increase in premiums moving forward
- Expect substantial new requirements to mitigate risk of large payouts
 - AIG has stated that it will trim 30% of customers due to failures to meet requirements
- Also expect decreases/sublimits on business interruption coverage
- Previous cyber incidents will also eliminate coverage or substantially raise rates

NEW CYBER INSURANCE REQUIREMENTS

- MFA on all email accounts, VPNs, and privileged user accounts
- Endpoint protection: Some carriers are requiring NextGen AV
 - Windows Defender is considered bare minimum (side note: many recent events only had Defender)
- Employee education/training: Phishing training specifically noted
- Air gapped backups for all critical on-prem systems
 - Less than 30 days old
- Patching cadence documentation
- Backup testing
- Data governance/management
 - Privacy
- IDS/IPS
- EDR
- DLP
- Specific requirements re: vendors

10

WHAT CAN YOU DO TO PROTECT YOURSELF AND YOUR ORGANIZATION?





NCLGISA IT STRIKE TEAM RECOMMENDATIONS FOR NON-IT STAFF

1. If you suspect ransomware, contact your IT department immediately! They should start severing all Internet-based connections asap.
2. Don't turn off your computer/server, just disconnect it from the Internet (ethernet and wireless)
3. Do not try to stay up and "functional", as it will allow for rapid, catastrophic proliferation across your networks and into any interconnections you might have with neighboring entities.
** No, you cannot just turn on your computer really quickly and insert a flash drive for those files you really need.
4. Use strong passwords (and unique ones) plus MFA (multifactor authentication) in your organization and personally.

CYBER SECURITY KNOWLEDGE



Which of these options is a form of multi-factor authentication?

1. User name and password
2. Security image to verify you are not a robot and password
3. One time code sent to phone and password
4. Two questions: 1) Name of childhood best friend and 2) City where your parents met
5. I have no clue!

A blue speech bubble with a white border and a drop shadow, containing the text "Pro Tip" in a bold, white, sans-serif font. The background of the slide is a gradient of teal and blue, decorated with white circuit-like lines and nodes.

Pro Tip

- ❖ If you leave your phone laying around with the screen unlocked or text previews available on the locked screen, you are a security problem.
- ❖ It might seem like a pain, but if you use your organization's network for anything involving personal data (like checking your bank account, logging into your doctor's portal, etc), it is worth the headache to have MFA.



5. Do not allow vendors to have open tunnels into your environment for remote support. Use a documented process for external access.
6. Do not use the same credentials for domain, system or software administration and your local accounts. Many of the recent breaches have involved compromised domain administrator credentials, which often are found to be the same as cached local administrator credentials.
7. Ask for immutable backups that are stored physically and virtually apart from the network for critical systems. After attacking the domain controller(s), most current variants go straight to encrypting your backups.
8. Determine what servers contain sensitive data (PHI, PII, financial data, CJIS data, etc) and keep this on file outside of the network.

CYBER SECURITY KNOWLEDGE



Yes or No:

Do any of your vendors have
persistent tunnels to
“support” your software?



9. Know your cyber-liability insurance policy well and have conversations with them prior to an event to determine their standard course of action (preferred vendors, etc).
10. Require user education for phishing messages and aggressive response to mitigate anyone who falls for phishing. Exposed credentials and malware downloads are part of the problem and can be limited with proper education.
11. Create a Continuity of Operations plan for your entity including defining who will serve as Incident Commander and drill it to make sure it works for your team!
12. Work with senior leadership to create a prioritization document for bringing departments/applications back online.

GREAT FREE RESOURCES

(LINKS ARE EMBEDDED)

- [Purple Knight \(Active Directory Risk Assessment Tool\)](#)
- [PingCastle \(AD Security Assessment Tool\)](#)
- [SCAP Tool \(Security Assessment for STIG & CIS Controls\)](#)
- [KnowBe4 Weak Password Checker & Other Free Tools](#)
- [CISA Cyber Hygiene Offerings](#)
- [Nessus Scanning Offering \(from NCLGISA Cybersecurity Strike Team\)](#)