Security Awareness Update BOC Work Session April 8, 2019



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Key Terms

- **Malware:** "hacking" software designed to disrupt, damage, or gain unauthorized access to a computer system.
- Ransomware: malware that encrypts files on a server or computer. The attacker then demands payment to unlock the files.
- **Phishing:** an email scam by which a user is duped into revealing passwords, personal or confidential information or unwittingly enabling illegal access to a network
- **Spear Phishing:** phishing focused on a specific individual, organization or business, often intended to steal data or install malware on a targeted computer.



Key Terms

- Whaling Attacks: a phishing attack that targets high-profile employees, such as the CEO or CFO, in order to steal sensitive information.
- Advanced Persistent Threats (APTs): an attack in which an unauthorized user gains access to a system or network and remains there for an extended period of time without being detected.
- Social-Engineering: an attack that relies on human interaction in order to manipulate users into breaking security procedures in order to gain access to systems, networks or physical locations.





March 23, 2018 Hackers Are Holding The City of Atlanta Hostage

August 6, 2018

Atlanta ransomware recovery cost now at \$17 million, reports say

October 4, 2018 Why us? 6 months after ransomware attack Atlanta has no answers

Georgia Charges Iranians In Ransomware Attack On Atlanta

December 5, 2018 · 9:15 PM ET



Across the Country

October 12, 2018 Recovery Has Not Come Cheap for the Alaskan Borough Targeted by Hackers

City of Valdez, Alaska admits to paying off ransomware infection

Ransomware attack sends City of Del Rio back to the days of pen and paper

January 23, 2019 Sammamish declares emergency in response to ransomware attack January 31, 2019 Spartanburg Co. library system refuses to pay ransomware

March 9, 2019 Jackson County paid online criminals \$400,000 to stop cyber-attack, officials say

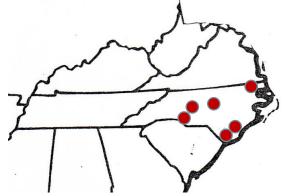
March 12, 2019 Ryuk Ransomware Attack Causes Delays at Boston Public Defenders' Office

March 25, 2019 Oregon Agency Reports Phishing Attack Affecting 350,000

April 2, 2019 City of Albany Latest Local Government Hit With Ransomware



In The Local News



October 15, 2018 Hackers hit Onslow County utility with ransomware attack March 18, 2019 Orange County computer network hit by ransomware attack

October 16, 2018 In County Crippled by Hurricane, Water Utility Targeted in Ransomware Attack

March 19, 2019 Hackers demand ransom from Orange County for 3rd time in 6 years

December 21, 2018 Pasquotank-Camden EMS Hacking Incident Impacts 40,000 Patients

March 21, 2019 North Carolina County Suffers Repeat Ransomware Infections





- ~1.2 million citizens
- 10,000+ Connected Devices
- 3,800 Employees
- 17,000+ User Accounts
- 430TB Data Onsite
- Cloud Hosted Applications
- Regulatory Fines (HIPAA, PCI, CJIS, etc.)

It Only Takes





What Are We Doing To Protect the County?





Security Awareness Program



Mandatory Training Modules (Quarterly)



Security Articles



THE IOS FACETIME PATCH IS AVAILABLE, NOW WHAT?



RITY ALERT: GRANDPARENT SCAMS ON THE RISE

PHISHME

Countywide Phishing Simulations (Quarterly)

Departmental Phishing Simulations (Random)



TIS THE SEASON FOR PHISHING SCAMS



atory Training Mod

Security Awareness Program



*5% lower than the baseline for governmental agencies.

