

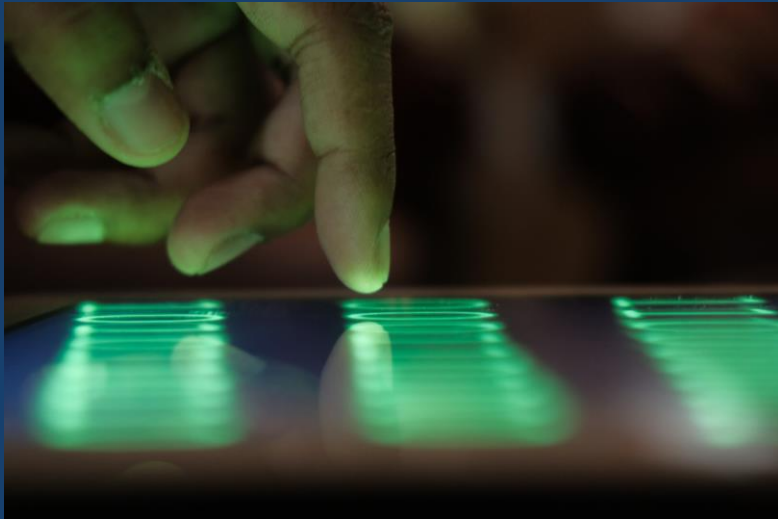
Understanding Cybersecurity Threats that Municipalities Face

And what steps you should be taking to mitigate the risks.

Thursday, May 12th | 1:30 PM



Goals for this Session



- **Why this is important now**
Describe current landscape and vulnerabilities that municipalities are facing.
- **What can be done to address it**
Planning strategies, common best practices and key takeaways.

Questions welcomed!

Panel Discussion



Deputy

Executive Director

NC League of Municipalities

bleaird@nclm.org



Chief Information

Security Officer

VC3, Inc.

joe.howland@vc3.com



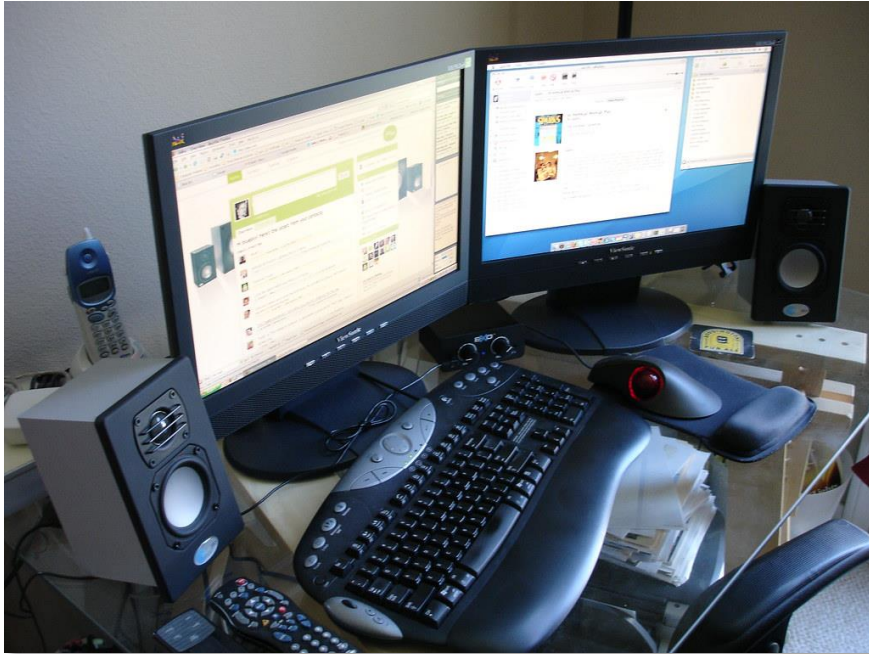
Director of Information Technology

NLC Mutual Insurance Company

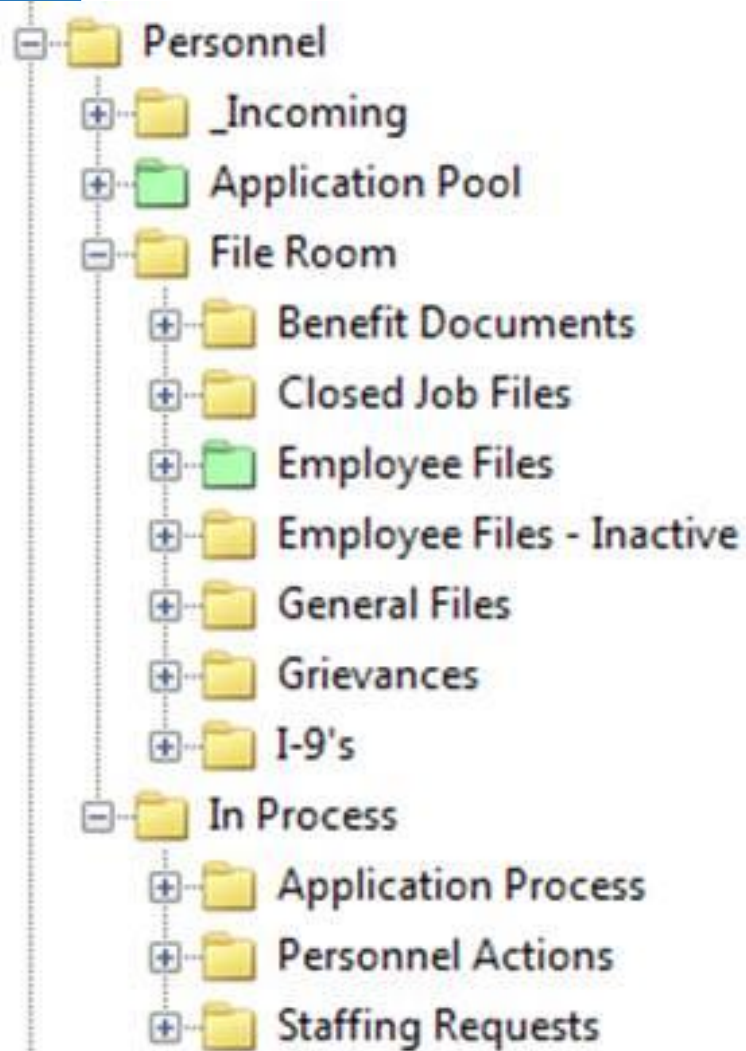
rdraughn@nlcmutual.com

Facilitator

Typical Municipal Workspaces



HR Files



Basic Information

Basic Information

Name Andrew Accounting
Email aaccounting@tigerpond.com
Home http://www.tigerpond.com/
Profile Accounting
Consulting Vertical
Customers
Employees
Freelance Managers
Freelancers
Helpdesk
HR Managers
ITSM Vertical
P/O Admins
Project Managers
Sales

Title

Edit

Localization

Current locale en_US
Current timezone Europe/Berlin

Edit

Contact Information

Contact Information

HomePhone +1 782 542 45 36
WorkPhone +1 7792 641 1546
Fax +1 7792 641 1547
HomeCountry Australia
WorkCountry Australia
Note Contact me at work in business hours

Edit

Portrait



- [Upload portrait](#)
- [Delete portrait](#)

Employee Information

Employee Information

Department [Administration](#)
Job Title Financial Manager
Job Description
Availability % 50
Hourly Cost 30.00
Supervisor [Ben Bigboss](#)
Social Security nr 123 456 789
Salary 2400.00
Social Security 350.00
Insurance 0.00
Other Costs 140.00
Salary Period month
Salaries per Year 12
Birthdate 1961-11-23
Start Date
Termination Date

Edit

Student Lastname

[Lastname.xx@buckeyemail.osu.edu](#) - 100 Your Ave. - Columbus, Ohio 43201-(555)-555-5555

Objective

Seeking mechanical engineering internship for the Summer of 2014

Education and Honors

- A current sophomore at The Ohio State University in Columbus, Ohio
- Majoring in Mechanical Engineering
- Graduated with honors and a 3.75 GPA (4.0 scale) from Your High School

Work Experience

Sometown Repair Services - 2012- Present

- Traveled with service technicians to work at different job sites (residential and commercial)
- Dissembled appliances to bring the copper and scrap metal to the scrap yard for cash
- Worked inventory inside the office
- Shadowed my boss during several of his meetings on job sites with other engineers to gain experience

Leadership Experience

National Honor Society

August 2010 - May 2013

- Sponsored and performed community service project
- Required to maintain a 3.5 GPA
- Held school events

Yourtown Athletics Committee (August 2010 - May 2013)

- 1 of 5 students throughout a high school of 2100 kids to be selected for a committee
- Presented opposing teams with a warming gift in their locker warm, such as candy

Commissioner/Alderman Meeting Files

- ▼ Sample Shared Drive
 - ▼ Academic
 - ▼ Advising
 - Doe, Jane
 - Smith, John
 - ▼ Administrative
 - ▼ Meetings
 - Agendas
 - Minutes
 - Policies and Procedures
 - ▼ Human Resources
 - ▼ Hiring
 - Search Committee
 - Staff Hiring

NOTICE OF MEETING
RAYTOWN FIRE PROTECTION DISTRICT
BOARD OF DIRECTORS
AGENDA
June 14, 2016
6:00 P.M.

1. Call to Order
2. Approve Agenda
3. Approve Minutes
4. Public Comments
5. Operating Reports
 - a. Administration
 - b. Operations and Prevention
 - c. Support
 - d. Logistics
 - e. Professional Development and Compliance
6. Old Business
 - a. New Apparatus Update
 - b. Health Insurance Update
7. New Business
 - a. 2015 Audit/Marr & Co.
8. Adjournment



City Planning Department Files

- CAD
 - Archives
 - Constructs
 - Elements
 - Sheets
 - Views
 - Xrefs of Consultants
 - Architecture
 - Civil
 - Electrical
 - Geotechnical
 - Graphics
 - Landscape
 - Mechanical
 - Plumbing
 - Renderer
 - Structural
 - Survey

1846 - 1846 1/2 S



Permit #
Plan Check # B18LA07968
Event Code:

18010 -

Printed: 01/21/19 12:42 PM

Bldg New GREEN - MANDATORY 1 or 2 Family Dwelling Regular Plan Check Plan Check		City of Los Angeles - Department of Building and Safety APPLICATION FOR BUILDING PERMIT AND CERTIFICATE OF OCCUPANCY		Issued on: 02/05/2019 Last Status: Issued Status Date: 02/05/2019	
1. TRACT TR 5567	2. BLOCK 17	3. LOT 17	4. ARE MB 59-78	5. PARCEL ID # (PIN #) 126B149 837	6. ABSTRACT PARCEL # 4261 - 025 - 019
3. PARCEL INFORMATION Joa Planning Comm ision - West Los Angeles LADBS Branch Office - WLA Council District - 11 Certified Neighborhood Council - West Los Angeles Community Plan Area - West Los Angeles Census Tract - 2677.00 District Map - 126B149 Energy Zone - 6 Near Source Zone Distance - 6 Thomas Brothers Map Grid - 632-86					
4. DOCUMENTS SPA - West LA Transportation Improve ORD - ORD-171492 CPC - CPC-2017-36472C ORD - ORD-120412 CPC - CPC-12191 ORD - ORD-163205 CPC - CPC-2005-8253-CA ORD - ORD-171227 CPC - CPC-2014-14378P					
5. CHECKLIST ITEMS Special Inspect - Anchor Bolts Special Inspect - Structural Wood (periodic) Permit Flag - Rec and Parks Fee Memo o Regd Special Inspect - Epoxy Bolts Storm Water LID Project Std. Work Desc - Seams in One Sheet Off Value Special Inspect - Structural Observation Permit Flag - Note Fire Life Safety Project Combine Plm b g - Wld. per 91.107.211.1					
6. PROPERTY OWNER, TENANT, APPLICANT INFORMATION Owner(s): MUNOZ, HORACIO B TR HORACIO B N 1846 FEDERAL AVE LOS ANGELES CA 90025 Tenant: Applicant: (Relationship: Agent for Owner) L.A. CA 90035					
7. EXISTING BLDG PROPOSED BLDG (02) Duplex		8. DESCRIPTION OF WORK NEW 46'X23' 3-STORY DUPLEX (BUILDING #1 AT FRONT OF LOT)			
9. * Signatures & Date: 1 OF 2 10. APPLICATION PROCESSING INFORMATION BLDG PC By: DAS PC By: OK for Cashier: Coord. OK: Signature: Date:					
11. PROJECT VALUATION & FEE INFORMATION Total Fee Paid Permit Valuation: \$330,000 PC Valuation: \$0 FINAL TOTAL Bldg New 16,685.96 Planning Surcharge Misc Fee 10.00 Permit Fee Subtotal Bldg New 1,860.00 Planning Gen Plan Maint Surchar 134.49 Energy Surcharge School District Residential Level: 11,949.87 Electrical 483.60 Dwelling Unit Construction Tax 400.00 HVAC 241.80 Residential Development Tax 600.00 Plm b g 483.60 CA Bldg Std Comm ision Surchar 14.00 Plan Check Subtotal Bldg New 0.00 Green Building 0.00 Permit Issuing Fee 27.00 Off-hour Plan Check 37.20 Plan Maintenance 42.90 E.O. Instrum entation 95.28 D.S.C. Surcharge 190.57 Planning Surcharge 115.45 Sewer Cap ID: Total Bond(s) Due:					
12. ATTACHMENTS Plot Plan					

Payment Date: 02/05/19
Receipt No: 0501065650
Amount: \$16,685.96

2019SL66247





Ooops, your files have been encrypted!

English

What Happened to My Computer?

Your important files are encrypted.

Many of your documents, photos, videos, databases and other files are no longer accessible because they have been encrypted. Maybe you are busy looking for a way to recover your files, but do not waste your time. Nobody can recover your files without our decryption service.

Can I Recover My Files?

Sure. We guarantee that you can recover all your files safely and easily. But you have not so enough time.

You can decrypt some of your files for free. Try now by clicking <Decrypt>.

But if you want to decrypt all your files, you need to pay.

You only have 3 days to submit the payment. After that the price will be doubled.

Also, if you don't pay in 7 days, you won't be able to recover your files forever.

We will have free events for users who are so poor that they couldn't pay in 6 months.

How Do I Pay?

Payment is accepted in Bitcoin only. For more information, click <About bitcoin>.

Please check the current price of Bitcoin and buy some bitcoins. For more information, click <How to buy bitcoins>.

And send the correct amount to the address specified in this window.

After your payment, click <Check Payment>. Best time to check: 9:00am - 11:00am

CMT from Mandiant to Fildes

Payment will be raised on

1/4/1970 05:30:00

Time Left

00:00:00:00

Your files will be lost on

1/8/1970 05:30:00

Time Left

00:00:00:00

[About bitcoin](#)

[How to buy bitcoins?](#)

[Contact Us](#)



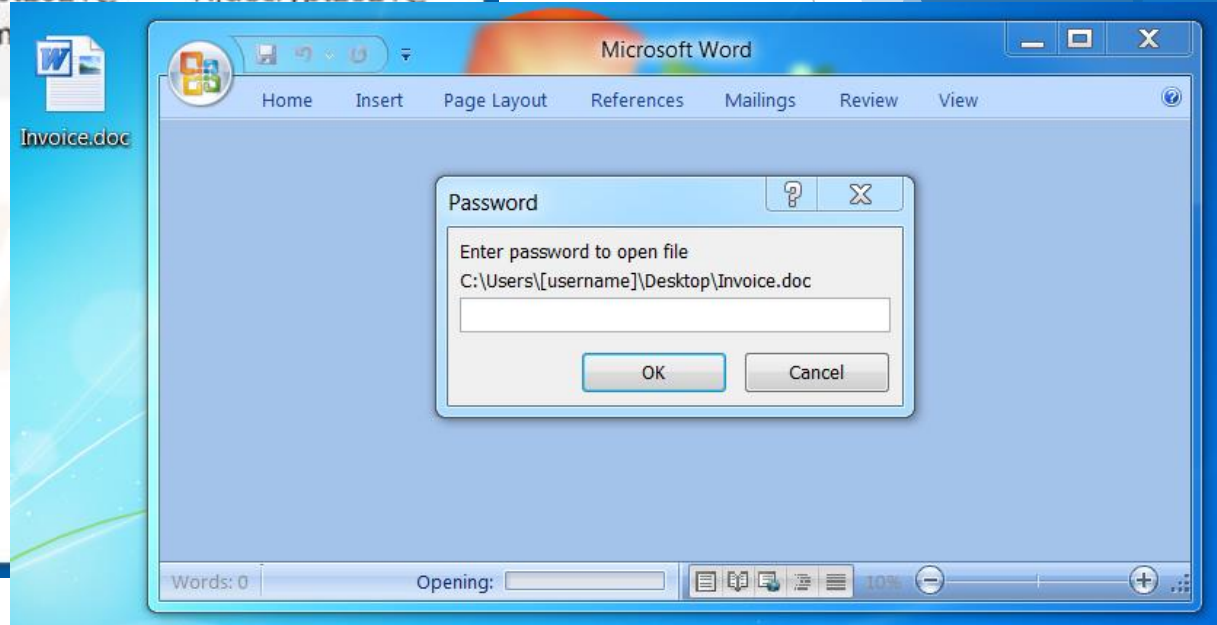
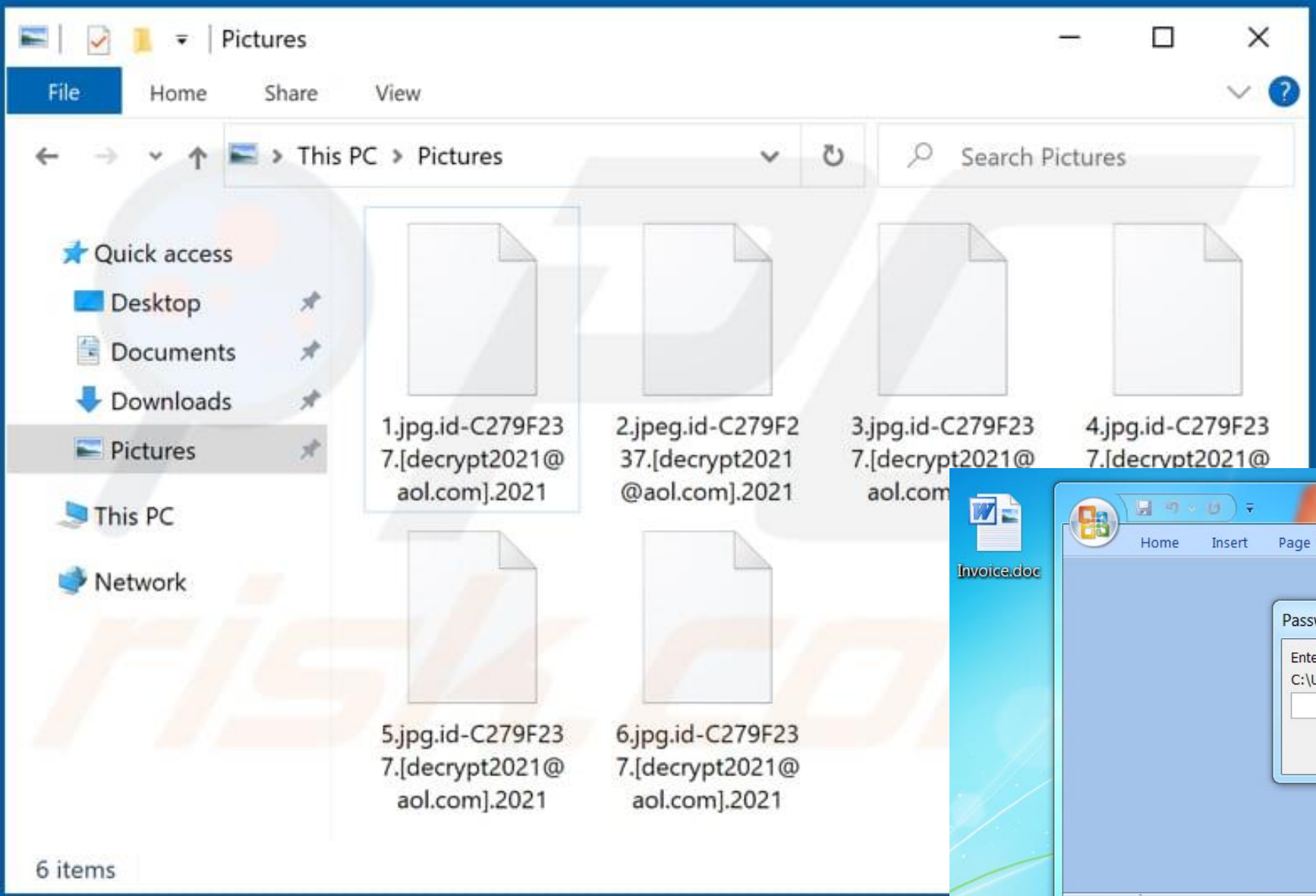
Send \$600 worth of bitcoin to this address:

12t9YDPgwueZ9NyMgw519p7AA8isjr6SMw

Copy

Check Payment

Decrypt



Common Online Municipal Services

Pay Taxes & Other Fees Online

- Check
- Cash
- Money Order

via MuniPAY using

- Visa, MasterCard, Discover, American Express (convenience fee will apply)
- Electronic Check Payments (convenience fee will apply)

The terms are a minimum charge of \$3.00 for credit card use. 2.65% above minimum. And \$1.50 for e-checks. :

[MORE INFORMATION](#)

PAY ONLINE

Save a Stamp! Pay your water bill online in a few easy clicks:

- 1 Go to wsfcutilities.org & click Pay Water Bill
- 2 Under the Online tab, click Pay Water/Sewer/Stormwater Bill Online Now
- 3 Enter your account number and the last 4 digits of the Customer Number on your bill and click Login
- 4 Click on your payment method (e-check or credit card) & follow the prompts

Other payment options:

- Auto Pay • City Link 311 • Drive-Through



Pay Water Bill

Look for this button to pay your bill online!



[Departments](#)[Boards & Committees](#)[Community Info](#)[Schools](#)

i **Where**
Do I Go For ...

Page Not Found

The requested content could not be found.

Town of Westminister • 11 South Street • Westminister MA 01473

[Website Disclaimer](#)

[Government Websites by CivicPlus®](#)

[Login](#)

Immediate Impact

How are citizens able to pay water bill or taxes?

What is the public safety impact?

How long will we be down?
Reputational harm?

Panel Discussion



Deputy
Executive Director
NC League of Municipalities
bleaird@nclm.org



Chief Information
Security Officer
VC3, Inc.
joe.howland@vc3.com



Director of Information Technology
NLC Mutual Insurance Company
rdraughn@nlcmutual.com
Facilitator

Protect against Ransomware

- BACK UP SYSTEMS and DATA (**Offsite or Cloud**)
 - ENSURE what you need is backed up!
 - VERIFY that it truly is backed up!
 - TEST that you can actually recover from backup!
 - TEST again
- Ensure systems are patched and updated!
- Consider outside network monitoring firms
 - Vendors such as VC3, Inc. and others offers solutions to small to large municipalities

Protect against Ransomware - (Continued)

TRAINING



- Educate Staff of threats!
 - Enforce strong passwords
 - Employ MFA (Multi-factor Auth)
 - Social Engineering and culture change
 - Email phishing exercises
- Pay attention to Ransomware events
 - Landscape is always changing



TIME TO CRACK:

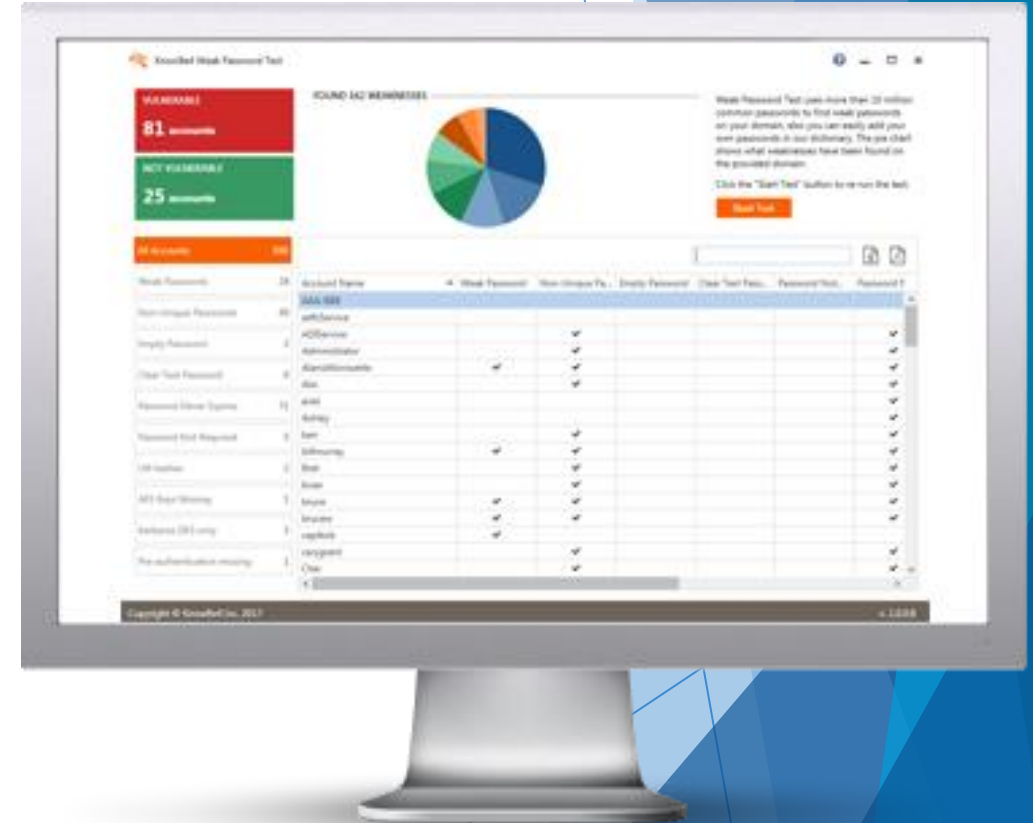
35,000,000,000,000,000,000
YEARS

Compl3xity < Length!

graded at howsecureismypassword.net

Protect against Ransomware - (Continued)

- Leverage Specialists like KnowBe4
 - Trainings
 - Free Tools/Simulators
 - Whitepapers/Documentation



DUE DILIGENCE



- Do your Due Diligence!
 - Verbal confirmation before wiring funds; especially if from an email request.
 - Note: May be requirement of some insurance policies.
- Policy to NOT wire funds via email request.
- Policy of having multiple people authorize:
 - Wire transfers/Employee Direct Deposits
 - Bank Routing/Account changes
 - Other financial transactions

Other Considerations

- Third Party IT Security Assessments.
- Cyber Insurance coverage (if possible).
- Public vs Private Cloud Solution Providers
- Office 365 Cloud Solutions and System Security tools.
- Seek guidance from Counsel
 - Proper contract provisions with IT Providers.
 - Data Breach Response terms, Where Data is Located.
 - Especially should a breach occur.
- Report to Authorities - FBI, IC3, HSA/CISA.



ARPA funds may be available



“American Rescue Plan Act funds can support short- and long-term investment in cybersecurity practices, updating legacy equipment that may no longer be receiving patches, moving to the cloud for data storage, or even training up staff members to recognize when they are being targeted by a phishing or social engineering campaign.

Other Resources

- Engage with MS-ISAC
(Multi-State Information Sharing and Analysis Center)
- Connect with CISA State Representative
- Netdiligence eRisk Hub
- Vendor produced Cybersecurity Checklists
[Cybersecurity Checklist for Municipalities: Where to Begin? - VC3 | IT Services](#)
- NLC-RISC & NLC Mutual Cyber Roadmap



NLC-RISC & NLC MUTUAL **CYBER ROADMAP**

Final Thoughts and Q&A



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