Cyber Security Workshop

PROTECT YOUR PRIVACY AND OUR NETWORK
Why are we here?

► At least eight local districts have had malware outbreaks in recent weeks
► Hundreds of computers had to be wiped out and reconfigured
► Even with help, and working nearly around the clock, they were down for several days
► EMOTET – Banking Trojan
► Can go undetected for days
► Each outbreak started with a phishing email
Top Malware Last Month

1. Emotet
2. Kovter
3. ZeuS
4. NanoCore
5. Cerber
6. Gh0st
7. CoinMiner
8. Trickbot
9. WannaCry
10. Xtrat
#1 delivery vehicle for malware?

Phishing email attachments

![Bar chart showing malware vectors.](image)
Emails we block daily
1. Infection
   - Invoice or shipment themed spam email with malicious attachments or links
   - Users open document with malicious macros
   - Malicious macros download Emotet malware

2. Establish Persistence
   - Emotet creates registry auto start keys and injects itself into running processes

3. Instructions Phase
   - Emotet reports a new infection to its C2 server and receives instructions

4. Network Propagation
   - Outlook Scraper
   - WebBrowserPassView
   - Credential Enumerator
   - NetPass.exe
   - Mail PassView
   - SMB
Before you click

► Check the source
► Check the content
► Check the destination
From: Henry Grishman <msg131390@aol.com>
Sent: Thursday, February 28, 2019 9:31 AM
Subject: Request

Good Morning,

I'm having a busy day and could only count on you to keep this as a surprise. I'm looking forward to surprise some of the staff with gift cards and I want this to be between you and I pending when they received it. Are you able to make a purchase on my behalf quickly and what local store do you think we have around to make this purchase? I would be reimbursing the funds back. I'm thinking Walmart since we have it almost everywhere.

Regards,
Henry L. Grishman
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Regards,
Henry L. Grishman
INVOICE RECEIPT

We have received your payment in the amount of $1,526.00 for invoice.

View form(s) or to download, visit:
https://secure/online/secur/list/R5QlOGjmvVrr5xp5QZicMMcqr

Daniel Salzman
987-558-4435, direct (pls. try here first, during business hours)
987-558-3013, office
987-558-1365, fax
987-558-9938, mobile 0222/8871583, WhatsApp

"Regulado y Supervisado por la Superintendencia de Seguros y Reaseguros de Panamá".
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From: Sheri Manett <manetts@grps.org>
Sent: Wednesday, February 13, 2019 1:44 PM
Subject: IT Help-Desk Support

IT Help-Desk Support

   Important Notice from IT Help Desk Team, we are updating all Faculty/Staff and Employees mailbox to new Outlook Web App/Owa for 2019 version.
   kindly click on IT Support/Help-desk to update the new version.

IT Support/Help-desk
© Copyright 2019 Microsoft
All right Reserved.
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IT Support/Help-desk
© Copyright 2019 Microsoft
All right Reserved.
From: Robin Holt <RHolt@FortisCollege.edu>
Date: January 10, 2019 at 3:22:15 AM EST
To: Undisclosed recipients:;
Subject: Please complete your assigned safety training

Dear,

You only have 24hrs to complete the following training:

- 2019 Micro-module - Safety Exercise - No Audio

Please use this link to complete your training:
training.knowbe4/auth/saml/a1d3b621a4ce
From: Robin Holt <RHolt@FortisCollege.edu>
Date: January 10, 2019 at 3:22:15 AM EST
To: Undisclosed recipients;
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Please use this link to complete your training:
training.knowbe4/auth/saml/a1d3b621a4ce

Click or tap to follow link.
You are authorized to update your mailbox storage. Your email needs to be confirmed by you before your mailbox storage can be updated with 2G more storage space in next 24 Hours. Click here for Update immediately.
Important Update

You are a high priority user and need to take action immediately to safeguard your email mailbox storage. Your email needs to be confirmed by you before you can be updated with 2G more storage space in next 24 Hours. Click here for Update immediately.
Never submit passwords through Google Forms.
Important Update

Newland, Chelsye [newlandc@chapelhillisd.org]

You are authorized to update your mailbox storage. Your email needs to be confirmed by you before your mailbox storage can be updated with 2G more storage space in next 24 Hours. Click here for Update immediately.
Important Update

Newland, Chelsye [newlandc@chapelhillisd.org]

You are authorized to update your mailbox storage. Your email needs to be confirmed by you before your mailbox storage can be updated with 2G more storage space in next 24 Hours. Click here for Update immediately.
From: Commercial Account Manager [methawee.ar@cj.net]
Sent: Monday, March 25, 2019 4:09 PM
To: Michael B. Kramer
Subject: Re: AW: March invoice # PDS41478EN

Please advise when we can expect payment of the attached invoice. Thank you.

http://51.175.83.46/includes/tcGI-QDII_QiIwkwdfwF-Eh/

Best regards,
Daniel Salzman
dsalzman@jerichoschools.org
From: Commercial Account Manager [methawee.ar@cj.net]
Sent: Monday, March 25, 2019 4:09 PM
To: Michael B. Kramer
Subject: Re: AW: March invoice # PDS41478EN

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Best regards,
Daniel Salzman
dsalzman@jerichoschools.org
fyi

From: Marion H. Wilkins <marion.wilkins@surryschools.net>
Sent: Friday, January 11, 2019 11:46 AM
Subject: Revised Employee Salary Schedule

Please Find attached Districts newly proposed Salary Schedule for your review.

Thanks,
Marion H Wilkins

[Surry County Public Schools Confidentiality Notice: This e-mail message, including any attachments, is for the sole use of the intended recipient(s) and may contain confidential and privileged information. Any unauthorized review, use, disclosure or distribution is prohibited. If you are not the intended recipient, please contact the sender immediately by reply e-mail and destroy all copies of the original message.]
FW: Revised Employee Salary Schedule

From: Marion H. Wilkins <marion_wilkins@surryschools.net>
Sent: Friday, January 11, 2019 11:46 AM
Subject: Revised Employee Salary Schedule

Please Find attached Districts newly proposed Salary Schedule for your review.

Thanks,
Marion H Wilkins

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From: Mail Delivery System <mailer-daemon@p3plsmtp16-05-25.prod.phx3.secureserver.net>
Sent: Thursday, February 7, 2019 8:42 AM
To: [redacted]@jerichoschools.org
Subject: Undeliverable: Message Delivery Failure

Notification: new 4 messages have failed to be delivered

[redacted]@jerichoschools.org

Mail Server has encountered an outgoing server failure which left some of your messages undelivered. Some of your outgoing messages were affected and can be resend now.

Resend Now

We are always working to give you the best email experience. We are sorry for any inconvenience caused.

@2019 Email Service Cooperation
Enter password

Password

Forgot my password

Sign in
The following illustrates a common phishing scam attempt:

1. A spoofed email ostensibly from myuniversity.edu is mass-distributed to as many faculty members as possible.

2. The email claims that the user's password is about to expire. Instructions are given to go to myuniversity.edu/renewal to renew their password within 24 hours.

Dear network user,

This email is meant to inform you that your MyUniversity network password will expire in 24 hours. Please follow the link below to update your password:
myuniversity.edu/renewal

Thank you
MyUniversity Network Security Staff
Several things can occur by clicking the link. For example:

- The user is redirected to `myuniversity.edurenwal.com`, a bogus page appearing exactly like the real renewal page, where both new and existing passwords are requested. The attacker, monitoring the page, hijacks the original password to gain access to secured areas on the university network.

- The user is sent to the actual password renewal page. However, while being redirected, a malicious script activates in the background to hijack the user’s session cookie. This results in a reflected XSS attack, giving the perpetrator privileged access to the university network.
RE: RBC Express Online

To: [Redacted]

This message was sent with High importance.

7TH5W6GKNC4QS26W0RTVFHX9GW8FE.html
11 KB

Dear RBC Express Customer [Redacted],

You have received a message that requires your attention:

To view your message, please follow the instructions in attachment.

------------------------------------------

Legitimate URL:

Phishing URL domain:
https://www6.rbc.com.webapp.ulk0.signin.logon.xmli.genysisadv.com
Dear Client,

Your order was successfully delivered to the fulfillment center and ready to be delivered to you. But the address in your order was listed with an error and we can not deliver the order to you.

Order number: [Redacted]
Delivery date: [Redacted]
Status: delivered
Check your order: [Redacted]

Click or tap to follow link.

CHECK ORDER

Copyright © 1994–2018 United Parcel Service of America, Inc. All rights reserved.
In Regards to Basic Card Member

We're reaching out about a partial upgrade on our **online service platform** and we feel the need to evaluate Cardmember's profile.

At the moment of evaluation, your profile didn't fully pass our checks.

However, for safety reasons, we declined access to your profile information and request that you confirm with us what's on file for you.

Attached along this message is a web fillable form. **Complete request by downloading and filling out the form.**
Contents of this document are protected. To view this content, please click “Enable Editing” from the yellow bar and then click “Enable Content”
This Document is protected by Adobe protect. CLICK HERE to UNLOCK
The images in this attachment cannot be displayed with PDF.
Click the image below to open with Microsoft Excel
<p>| | | | | | |</p>
<table>
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<td><strong>PAGE 1/40</strong></td>
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<td><strong>2</strong></td>
<td><strong>(1) CONTRACT TERMS AND CONDITION / CESS</strong></td>
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<td><strong>4</strong></td>
<td><strong>(3) DELIVERY PERIOD (duration) / PORT OF DESTINATION</strong></td>
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<td><strong>5</strong></td>
<td><strong>(4) DELIVERY TERMS / PAYMENT TERMS / QUOTE VALIDITY</strong></td>
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</table>

Invalid username and password
Hello,

With regards to attached invoice - Your contract does not state free of charge rate change, which is why you have been invoiced.

Invoice is attached.

We are appreciate your immediate attention to this matter.

DNA Learning Center - Middle School

Direct #: 875-657-4842
875-073-2333 x354
EMAIL:dnalc-ms@csil.edu

If you have any questions or concerns do not hesitate to contact me. If you have a billing questions please email dnalc-ms@csil.edu.
<table>
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<th>Ingress Security Zone</th>
<th>Egress Security Zone</th>
<th>Source Port / ICMP Type</th>
<th>Destination Port / ICMP Code</th>
<th>Application Protocol</th>
<th>Client</th>
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<td>Outside-Interface</td>
<td>53189 / tcp</td>
<td>80 (http) / tcp</td>
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<td><a href="http://2080dent.com/mifidw8/Clients_transactions/2">http://2080dent.com/mifidw8/Clients_transactions/2</a>...</td>
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</tr>
</tbody>
</table>
From: Laura Peterson <lpetersen@vs24.org>
Sent: Friday, October 12, 2018 3:34 PM
Subject: Please Review Documents

Your document has been completed

Sent on behalf of OneDrive

From: Laura Peterson
lpetersen@vs24.org

Hello

You have a binder shared with you through OneDrive

This email contains a secure link to OneDrive. Please do not share this email, link, or access code with others.

To view the documents, and other information, please click on view Document.

VIEW DOCUMENT

Director of Special Education
Valley Stream UFSD #24
Robert W. Carbonaro School
50 Hungry Harbor Rd
Valley Stream, NY 11581
516-434-2871
FAX: 516-791-0932
Your document has been completed

Sent on behalf of OneDrive

From: Laura Peterson

lpetersen@vs24.org

Hello

You have a binder shared with you through OneDrive.

This email contains a secure link to OneDrive. Please do not share it with others.

To view the documents, and other information, please click on the following link:

https://linkprotect.cudasvc.com/url?a=http://texas.sla1.org/cgi-b/index.php&c=e,t,s/v5aabvtw3dizuunhrbdqm1eyin_oj8nhx2cvntrwfpdt1sodh5ftye88tbuvdke91kwt97re7idivh14f99-c-ihgph5agy803phg,,&type=1

Click or tap to follow link.

Director of Special Education
Valley Stream UFSD #24
Robert W. Carbonaro School
50 Hungry Harbor Rd
Valley Stream, NY 11581
516-434-2871
FAX: 516-791-0932
From: Mona Baldauf <MBaldauf@nasboces.org>
Sent: Monday, October 22, 2018 4:15 AM
Subject: Docu

*Your document has been completed*

Please DocuSign these documents: "Final_Selling_disclosure.pdf".

To view the secured documents, recipients, and other information, please click on the link below and sign in via your email provider.

View Documents

Docu sent you a new document via DocuSign. Updated Agreement/Closing Statement. 28.10.18 to view and signing. Please click on the 'View Documents' link below to begin signing.

If you need assistance, please contact DocuSign Support (service@docusign.net)

The Global Standard For Digital Transaction Management

Do Not Share This Email
This email contains a secure link to DocuSign. Please do not share this email, link, or access code with others.
From: Mona Baldauf <MBaldauf@nasboces.org>
Sent: Monday, October 22, 2018 4:15 AM
Subject: Docu

*Your document has been completed*

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The Global Standard For Digital Transaction Management

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<td>John Markovich</td>
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Summary

- Check the sender
- Check the content
- Check the link
- If you weren’t expecting it, it’s probably malicious
- Do not open suspicious emails or click on unknown links
- If the message appears to be a phishing email, do not respond
- Never respond to an email requesting sensitive personal information
- Report suspicious emails to the IT department immediately
Passwords

Your password is not unique. Some are quite common. For example, the password “12345” has been exposed 2.3m times, “secret” 221,972 times, “god” 32,804 times and “arcticmonkeys” 649 times.
Passwords

- Use a strong password
- Use a different password for every site
- Use a password manager
- Use 2-Step Verification (aka 2-Factor Authentication)
Hackers Have Your Password

- Many companies have reported data breaches in recent years.
- There's a good chance that one of your passwords was exposed in one or more of these breaches.
- Databases of stolen passwords are available on the “Dark Web”
- Hackers sometimes use this in threatening emails
Breaches you were pwned in

A "breach" is an incident where data has been unintentionally exposed to the public. Using the 1Password password manager helps you ensure all your passwords are strong and unique such that a breach of one service doesn't put your other services at risk.

Adobe: In October 2013, 153 million Adobe accounts were breached with each containing an internal ID, username, email, encrypted password and a password hint in plain text. The password cryptography was poorly done and many were quickly resolved back to plain text. The unencrypted hints also disclosed much about the passwords adding further to the risk that hundreds of millions of Adobe customers already faced.

Compromised data: Email addresses, Password hints, Passwords, Usernames
Google Password Checkup

- A Chrome extension that helps you resecure accounts that were affected by data breaches.
- Wherever you sign-in, if you enter a username and password that is no longer safe due to appearing in a data breach known to Google, you’ll receive an alert.
Check Your Account

Security

Settings and recommendations to help you keep your account secure

Security issues found

Protect your account now by resolving these issues

Secure account
Check Your Account

Security Checkup
2 issues found

1. Recent security events

New sign-in on Windows
- Near Jericho, NY, USA
- March 13, 8:32 AM
Was this you?
- No, it wasn't me
- Yes

New sign-in on Windows
- Near Long Beach, NY, USA
- March 11, 12:40 PM
Was this you?
- No, it wasn't me
- Yes

- Your devices
  - 7 signed-in devices

- 2-Step Verification
  - 2-Step Verification is on
Check Your Account

7 signed-in devices

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Don't recognize a device?
Check Your Account

Signing in to Google

Password: Last changed Jul 30, 2018

2-Step Verification: On

App passwords: None
At Home

- Back up your files
- Install all operating system updates
- Use security software and make sure you set it to update automatically
If you didn't expect it, reject it!
Don't click unexpected links

**THE TRAP**: You receive an unexpected email that claims to be from the "Help Desk" or someone you know. It says it’s urgent. You must click a link to prevent problems with your account.

**YOUR DEFENSE**: Be skeptical of any email that you aren't expecting.
Passwords in Email = Epic Fail
Never send your password in email

THE TRAP: You receive an urgent email that appears to be from Jericho asking you to reply with your password because your account is "compromised" or "over quota" or "suspended due to inactivity".

YOUR DEFENSE: Jericho will never ask you to any personal information via email

Remember: Only You can Protect your Jericho Password!

NO Password sharing: With other teachers or faculty
Hover to Discover
Look out for deceptive links

**THE TRAP**: You receive an email telling you to "click here" to verify your account.

**YOUR DEFENSE**: Hover over the link (don't click!), or for a touchscreen, press and hold the link (don't tap!) to reveal the actual URL.
Not Sure if it's a Phish? Drop us a line

THE TRAP: You receive an email that looks like it's an official Jericho email. You are not sure if this is a phishing attempt.

YOUR DEFENSE: Forward the message Jericho Technology (link sends e-mail)