

# Cyber Security



March 2020

# The New Vector

- Things have changed dramatically
- People are not attacking companies directly through networks and hardware that have been secured and have spent millions to secure.
- Don't think about protecting your V.I.P. but think more V.A.P. (Very Attacked People)
- People are the target now instead of direct machine attacks. Why hack their way through networks when they can trick people in giving them access
- Path of Least Resistance is through the people. People embrace convenience before understanding. Baby monitors, Doorbells, teddy bears that can goole can be great things but must be setup correctly



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# Who are you - The New Vector

- But why do hackers hack at all? Fame, Political, Terrorism, Boredom.
- Physical wars are too expensive and hard to develop without notice
  - 1 Destroyer, couple of planes, small army - 10s of Billions
- Average price of Cyber war
  - 10,000 computers, 5,000 credit cards, Specialists - \$10k
- They want your CPU, They want your location, they want your social connections, they want to disrupt business, they want information.

# Everyone Clicks Eventually

- Everyone clicks on a bad link eventually to save a Nigerian Prince, fix that last minute christmas order, take a quiz, save a dollar and download the next great App.
- Download an App
  - ❖ No App is free. You are always paying for it. Either money or your information
  - ❖ Use Airplane mode to play when possible
- Take a Quiz on social media
  - ❖ They want you to lower security
  - ❖ They are often just means of tracking



# Everyone Clicks Eventually

- On-line Coupons
  - Flood the notifications
  - Personal computers end up running multiple Anti-Virus. Then you get the pop ups.
  - Things like adaware and ad removal tools they want you to download are the Virus.
- Phishing Email - Designed to get you to click on a link that you shouldn't
  - Nigerian Prince
  - Fixing a Christmas order
  - Netflix is going to expire



# Let's Go Phishing

1  
Dear Customer

2  
Your account has been suspended due to suspicious activity. To re-activate your account, you must contact our security division and request reinstatement.

3  
[Click Here](#) to submit a request to activate your account.

4  
CAUTION. If this issue is not resolved within the next 72 hours, we will permanently suspend your account. You will no longer have access to your account.

5  
We apologize for the inconvenience, but in today's environment, we need to be overly cautious of security issues.

Sincerely,

6  
Security Services Department  
Fraud Division  
Acme Company, Inc.

1. Generic greeting

2. Invokes fear

3. Requires action

4. Threatening language

5. Grammar Issues

6. Generic Closing



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1-5



# Let's Go Phishing

Dear Customer

Your account has been suspended due to suspicious activity. To re-activate your account, you must contact our security division and request reinstatement.

<http://www.phishingexample.com/48dsfjasd98>

Click Here

CAUTION. If this issue is not resolved within the next 72 hours, we will permanently suspend your account. You will no longer have access to your account.

We apologize for the inconvenience, but in today's environment, we need to be overly cautious of security issues.

Sincerely,

Security Services Department  
Fraud Division  
Acme Company, Inc.

DO hover over links  
verify its location

DO NOT click on  
unknown links

DO NOT reply to  
suspicious requests

DO report the  
suspected attack

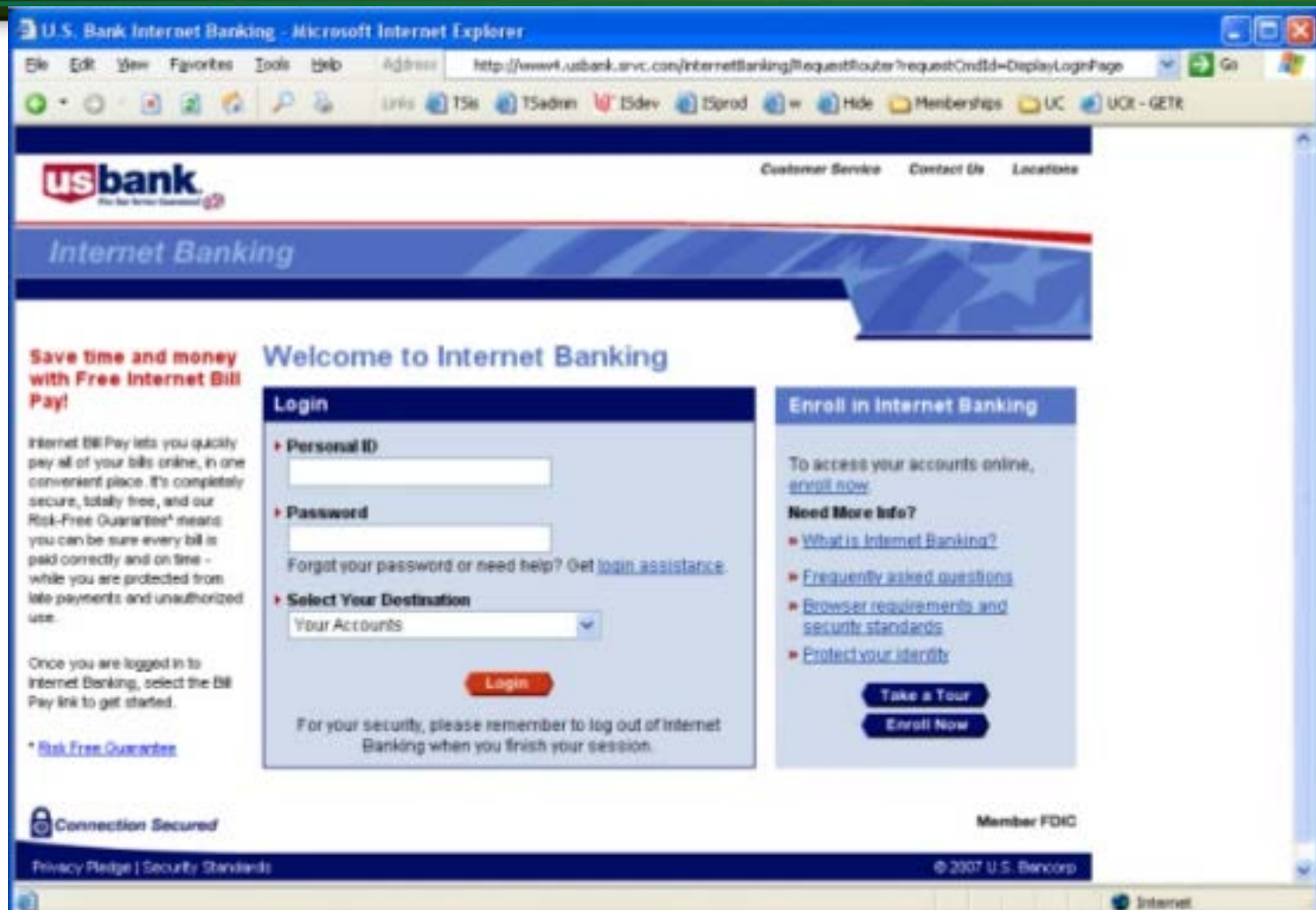


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# Let's Go Phishing GOOD/BAD site





# Let's Go Phishing GOOD/BAD site

U.S. Bank Internet Banking - Microsoft Internet Explorer

File Edit View Favorites Tools Help Address <https://www4.usbank.com/InternetBanking/RequestRouter/requestCmdId=DisplayLoginPage> Go

Links TSs TSadmin TSdev TSprod W Hide Memberships UC UC - GETit

**usbank**  
The New American Bank

Customer Service Contact Us Locations

**Internet Banking**

**Save time and money with Free Internet Bill Pay!**

Internet Bill Pay lets you quickly pay all of your bills online, in one convenient place. It's completely secure, totally free, and our Risk-Free Guarantee\* means you can be sure every bill is paid correctly and on time - while you are protected from late payments and unauthorized use.

Once you are logged in to Internet Banking, select the Bill Pay link to get started.

\* [Risk-Free Guarantee](#)

**Welcome to Internet Banking**

**Login**

► **Personal ID**

► **Password**

Forgot your password or need help? Get [login assistance](#).

► **Select Your Destination**  
Your Accounts

**Login**

For your security, please remember to log out of Internet Banking when you finish your session.

**Enroll in Internet Banking**

To access your accounts online, [enroll now](#).

**Need More Info?**

- [What is Internet Banking?](#)
- [Frequently asked questions](#)
- [Browser requirements and security standards](#)
- [Protect your identity](#)

**Take a Tour**  
**Enroll Now**

**Connection Secured**

Member FDIC

Privacy Pledge | Security Standards

© 2007 U.S. Bancorp

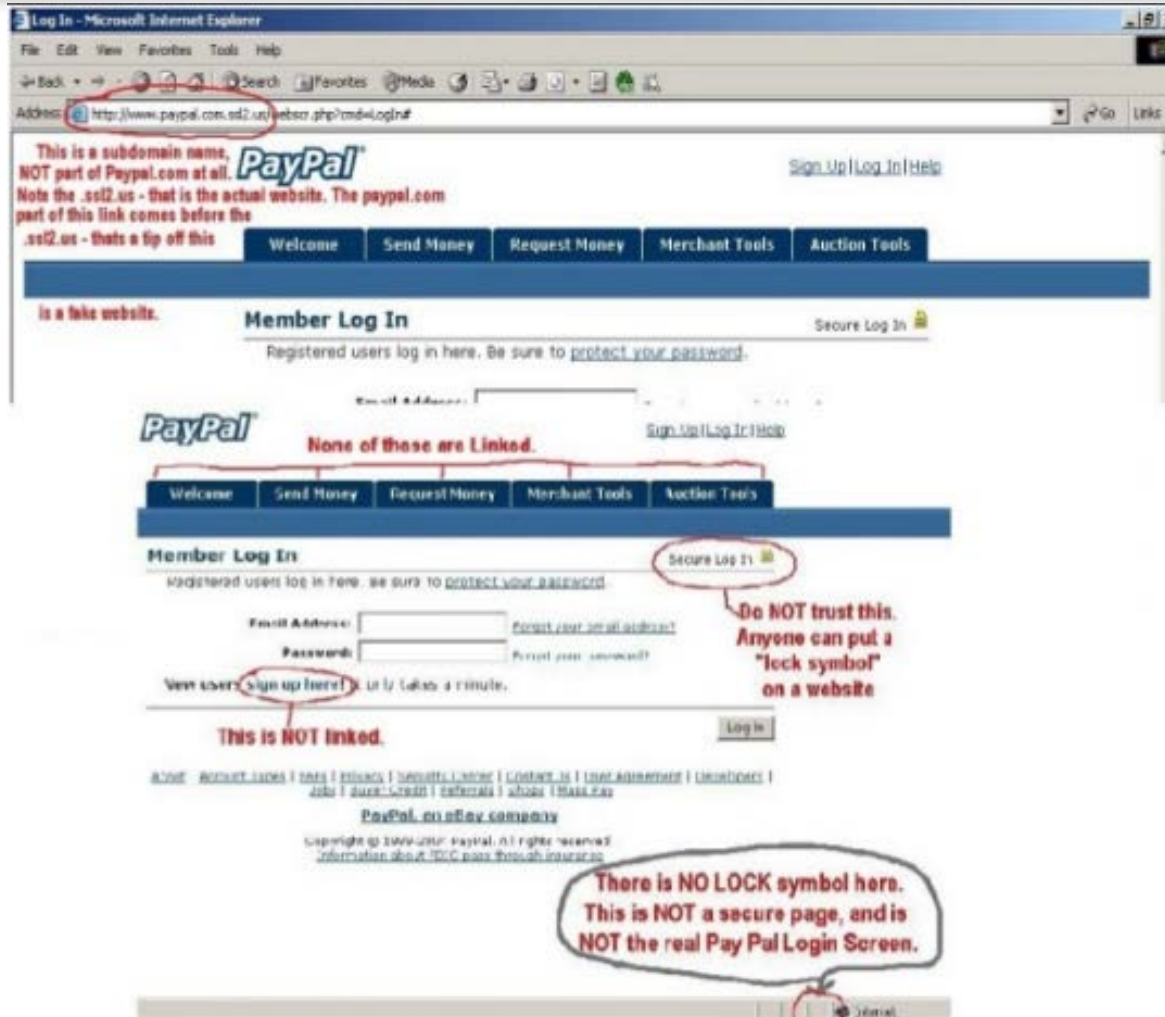
Internet



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# Let's Go Phishing



# Privacy and Security

- Are you concerned about Security or are you really concerned about Privacy.
  - My home in 3 months tracked 52 devices coming and going.
    - ❖ watches, tablets, some cars, phones, etc
  - A small business can see 100s of devices a day. Keep them of the business network.
- Coffee Shops and Airports and Pineapples
- **DO NOT mix work and personal email / data**
- Use more than one browser
  - Utilize Privacy or incognito more often



# So Many Passwords

- Longer passwords are better
- At a minimum Use different passwords for each subject
  - ❖ Credit Cards
  - ❖ Bank
  - ❖ Shopping
  - ❖ Email
  - ❖ Streaming
  - ❖ Social
  - ❖ Work
  - ❖ Medical
- When filling out the security questions used for password recovery do NOT use real information.





# Don't Panic - Just change your behavior

- Change your password
- Do not mix work and personal email and data
  - Do not sign up for anything with work email. Do not send personal email to work or vice versa. Avoid checking personal info on work networks
- Don't Panic - LOOK at the email before clicking. "Hover" over the link to make sure the link is going where you think.
  - Amazon - amazon.com; XXX.amazon.com
  - Not amazon - amzone.com;amazon.com.XXX; amazon.XXX.com
  - look for HTTPS in the link. When connected look for a lock on the link bar or bottom right of the browser.
- Don't use real information for Security Questions
- Use 2 Factor authentication when possible

[cert@sturbridgepd.com](mailto:cert@sturbridgepd.com)

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