

About Myself

Name

Josh Silva

Title

VP of Network Administration

Experience

Over 13 years of Security Experience in the financial vertical for entities ranging from 3.4 billion to 12 billion in asset size.

2 years of Government Contract Experience in IT Security for I.C.E.



Types of Cyber Security Threats

Major Categories

- Phishing
- Vishing
- USB Drops



Phishing

- What is Phishing?
 - Gaining information or access to resources via a fraudulent email.
 - These emails are tailored to appear to be legitimate in appearance.
- Signs of a Phishing E-Mail
 - URLs embedded in the email don't match the entity they claim to be from.
 - The difference can be slight as in the example below
 - Email from: josh.silva@securityfirstcu.com
 - URL embedded in email: <http://www.securityfirstcu.ru/badurl/>
 - The email contains poor spelling and grammar.
 - The message asks for personal information
 - Always be wary of emails asking for personal information such as SSN, usernames and passwords.



Phishing Cont.

- Signs of a Phishing E-Mail
 - The offer seems too good to be true.
 - You didn't initiate the action.
 - You're asked to send money to cover expenses.
 - The message makes unrealistic threats.
 - The message appears to be from a government agency.
 - Something just doesn't look right.



Phishing Example

From: Amazon <management@mazoncanada.ca> on behalf of **not an Amazon email address (note the missing A in Amazon)**
To: @sheridanc.on.ca
Cc:
Subject: Suspension

amazon.com[®]

Dear Client,

Generic non-personalized greeting

We have sent you this e-mail, because we have strong reason to believe, your account has been used by someone else. In order to prevent any fraudulent activity from occurring we are required to open an investigation into this matter. We've locked your Amazon account, and you have 36 hours to verify it, or we have the right to terminate it.

To confirm your identity with us click the link bellow:

<https://www.amazon.com/exec/obidos/sign-in.html>

Sincerely,

Hovering over the link reveals it points to a non-Amazon site - "http://redirect.kereskedj.com"

The Amazon Associates Team



Vishing

- What is Vishing?

- Vishing is the use of a phone conversation to obtain information or get the intended victim to perform an action for criminal gain.

- Examples of Vishing

- Example 1

- You receive a phone call from the “IRS” that you owe money from your last tax return.
- They ask you to pay a certain amount by purchasing gift cards from stores in order to take care of the matter.

- Example 2

- Wires department receives a call from the “CEO” who is out of town. The “CEO” asks the wires department to initiate a wire to a given account for a large amount. This is to pay for a service he needs and forgot to pay for before he left. The wires department makes the wire transfer wanting to assist the “CEO”.
- 2016 figure – Nearly \$3.1 billion stolen from 220,000 victims with the “CEO” scam.



USB Drops

- What are USB Drops?
 - Criminals will place a USB in a parking lot or other public space for unsuspecting victims to pick up and plug into their computers.
 - These are often accompanied with a label that reads “confidential” or “salary information”
 - Usually these USBs will contain malware that will infiltrate a system and steal information or cause damage to the system.
 - Ransomware is a huge issue and can be easily transmitted by this transport method.





Interesting Facts

- Spyware
 - 8 Million households infected
 - Spyware makes up 2.89% of the most common threats in the world
- Malware
 - 6.83 million new strains in 2016
 - Cyber Crime to hit \$6 trillion annually in damages by 2021
 - Ransomware expected to exceed \$5 billion in damages in 2017
- Vishing
 - Businesses lost an average of \$43,000 per account
 - Individuals have lost an average of \$4,200

Interesting Facts Continued

- USB Drops
 - 48% of people who find a USB plug it in to their PC
 - 20% of them plug it in within 1 hour of finding it
 - 50% of them plug it in within 7 hours of finding it
- Viruses
 - 16 million households experienced a serious virus problem in the past 2 years
 - 40% of households are affected by viruses
 - 32% of the world's computers are infected with some type of malware

