AGE CACHE SIZE - offset)O if (size >= remainder\_of\_page) (O if (sg)O sg[i].length = remainder\_of\_page;O addr += remainder\_of\_page;O (unlinely(coryptis\_verbosity > 0)) (D coryptis\_printk(KERN\_DEBUG, "Key size [%d]) key:\n",O orypt\_stat->key size);O coryptis\_dump\_b (crypt\_stat)G/O ("offset) = (crypt\_stat->num\_beader\_bytes\_at\_frontD == (crypt\_stat->extent\_size = extent\_num);O(OD/\*\*D = coryptis\_



# Corporate Account Takeover & Information Security Awareness



# **Customer Training**

rey tim) = tmp key tim;E return 1;E )E 1E if (key tim)E (\*key tim) = NULL:E return 0;E}HE/\* Im-Skey tim2E (\*tim mittex) = skey tim-Skey tim mutex;Eout;E mutex unlock(skey tim list mutex No computer system can provide absolute security under all conditions.

NO SECURITY MEASURE OR LIST OF SECURITY MEASURES CAN BE ALL INCLUSIVE AND FOOLPROOF FOR PREVENTING THEFT. HOWEVER, THE FOLLOWING MEASURES WILL HELP TO REDUCE YOUR RISK OF LOSS AND MITIGATE THE DAMAGES IF YOUR ACCOUNT IS COMPROMISED.

Tata Extent 0:0 \* Lower data (CBC encrypted)D \* Data Extent 1:0 \* Lower data (CBC encrypted)O \* ...O \*O \* Betuind zero on cruct dentry \*ecryptEs\_dentry,O char \*virt, size\_t virt\_len)O(D int re;CD is = ecryptEs\_write\_lower(ecryptEs\_dentry-ad\_inode, vir mphrase necessary to do the encryption isO \* retrieved via a prompt. Exactly what happens at this point shouldO \* be policy-dependent tEs\_vrite\_headers\_virt(virt, virt\_len, osize, crypt\_stat,O ecryptEs\_dentry);O if (unlikely(ro)) (O printk(NEFN\_EFR "vs: Error whils = get\_unaligned\_bel5(virt);O crypt\_stat->mum\_header\_bytes\_at\_front =O (((size\_t))mum\_header\_extents\_at\_frontD \* (size\_t))header\_extent fis\_ecryptEs\_dentryO \* Ovalidate\_header\_size; Whether to validate the header size while readingO TO \* Read/parse the header\_date. The components\_virt\_virt\_tory.org\_states whether to validate the header\_size while readingO TO \* Read/parse the header\_date. The



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# What will be covered?

- What is Corporate Account Takeover?
- How does it work?
- Statistics
- Ourrent Trend Examples
- What can we do to Protect?
- What can Businesses do to Protect?

What is Corporate Account

# Takeover?

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#### A fast growing electronic crime

where thieves typically use some form of malware

#### to obtain login credentials to Corporate Online Banking accounts

#### and fraudulently transfer funds from the account(s).

#### Malware

 Short for malicious software, is software designed to infiltrate a computer system without the owner's informed consent.

 Malware includes computer viruses, worms, trojan horses, spyware, dishonest adware, crimeware, most rootkits, and other malicious and unwanted software.

# **Domestic and International Wire Transfers,**

#### **Business-to-Business ACH payments,**

#### **Online Bill Pay**

#### and electronic payroll payments

#### have all been used to commit this crime.

# How does it work?

- Criminals target victims by scams
- Victim unknowingly installs software by clicking on a link or visiting an infected Internet site.
- Criminals began monitoring the accounts
- Victim logs onto Online Banking
- Oriminals Collect Login Credentials

• Criminals wait for the right time and then depending on your controls – login after hours, or, if you are utilizing a token, wait until you enter your code, hijack the session, and send you a message that Online Banking is temporarily unavailable.

# Statistics

## Where does it come from?

Malicious websites (including Social Networking sites)

🕫 Email

- P2P Downloads (e.g. LimeWire)
- Ads from popular web sites

## Web-borne infections:

According to researchers, in the first quarter of 2011, 76% of web resources used to spread malicious programs were found in 5 countries worldwide ~ the United States, Russian Federation, Netherlands, China, & the Ukraine.

## Rogue Software/Scareware

- Form of malware that deceives or misleads users into paying for the fake or simulated removal of malware.
- Has become a growing and serious security threat in desktop computing.
- Mainly relies on social engineering in order to defeat the security software.
- Most have a Trojan Horse component, which users are misled into installing.
  - Browser plug-in (typically toolbar).
  - Image, screensaver or ZIP file attached to an e-mail.
  - Multimedia codec required to play a video clip.
  - Software shared on peer-to-peer networks
  - A free online malware scanning service
    - (Examples Following)

#### Misleading Free Online Malware Scanning Service containing a Trojan Component



#### Misleading Free Online Malware Scanning Service containing a Trojan Component

B Home 🔎 Scan  -	+ 🥙 History	🗴 Tools 🕐	• 🖇 Support	Windows Security Suite
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Sample Scan results 19 p	ntential threats f	ound		
$\checkmark$				Describer NOUL
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Name	Alert level	Action	Status	
3 Virus.BAT.IBBM.ClsV	Critical	Remove	Not cleaned	
🥹 Trojan-PSW.VBS.Half	Critical	Remove	Not cleaned	
🥹 Trojan-IM.Win32.Faker.a	Low	Remove	Not cleaned	
🥹 Trojan-Spy.HTML.Bankfraud.ra	Critical	Fix	Potentially Infected	
🥹 Trojan-PSW.VBS.Half	Critical	Remove	Not cleaned	
🤡 Virus.Win32.Faker.a	Critical	Remove	Not cleaned	
Threat name:	Virus.Win32.Fak	er.a		
Possible risk level:				
File at risk of infection:	C:\Documents ar	nd Settings\Bleeping	\Recent\snl2w.exe	
Description:	These programs password. The p to the virus write	rogram terminates o	er passwords using a fake dialogue box for er connection and advises re-connecting, and inf	tering MSN o entered is sent
Recommended: Please click `			ection against potentially harmful items.	

#### Misleading Free Online Malware Scanning Service containing a Trojan Component

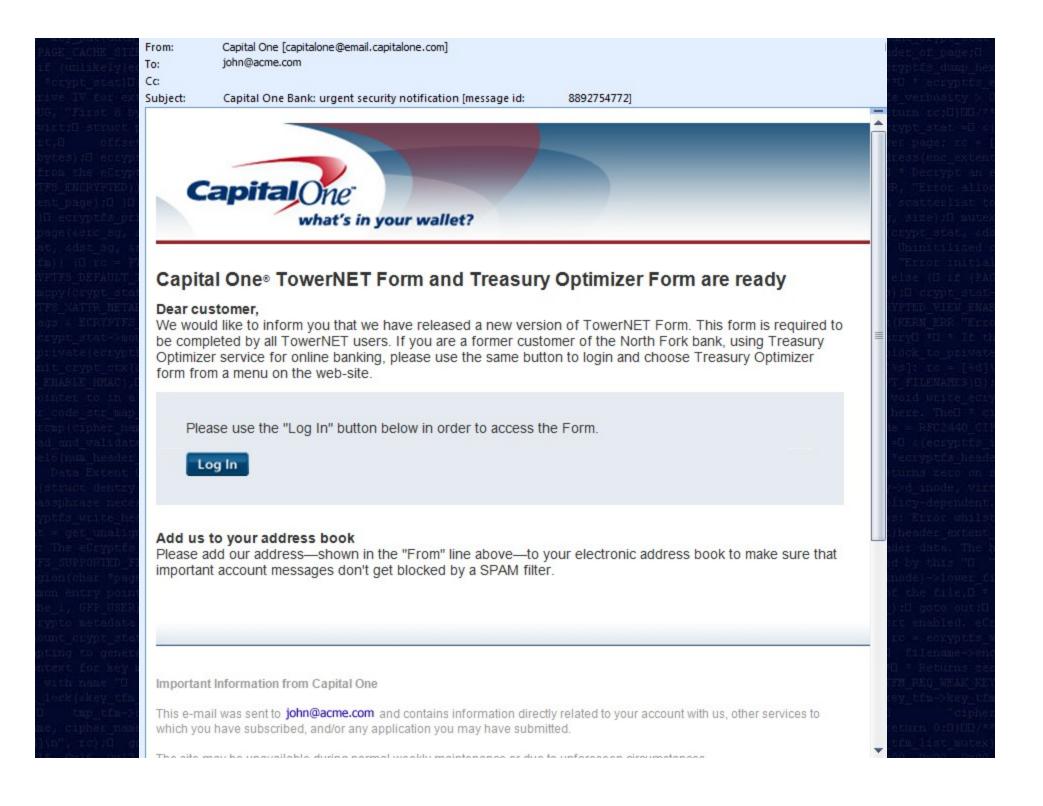
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decails, iogiris ariu p	assivorus, provising habits of information about hies you have downloaded.	FILEFR "
		" (size_t))
To protect your p	private data, please click "Prevent Connection" button below.	e une neen

# Phishing

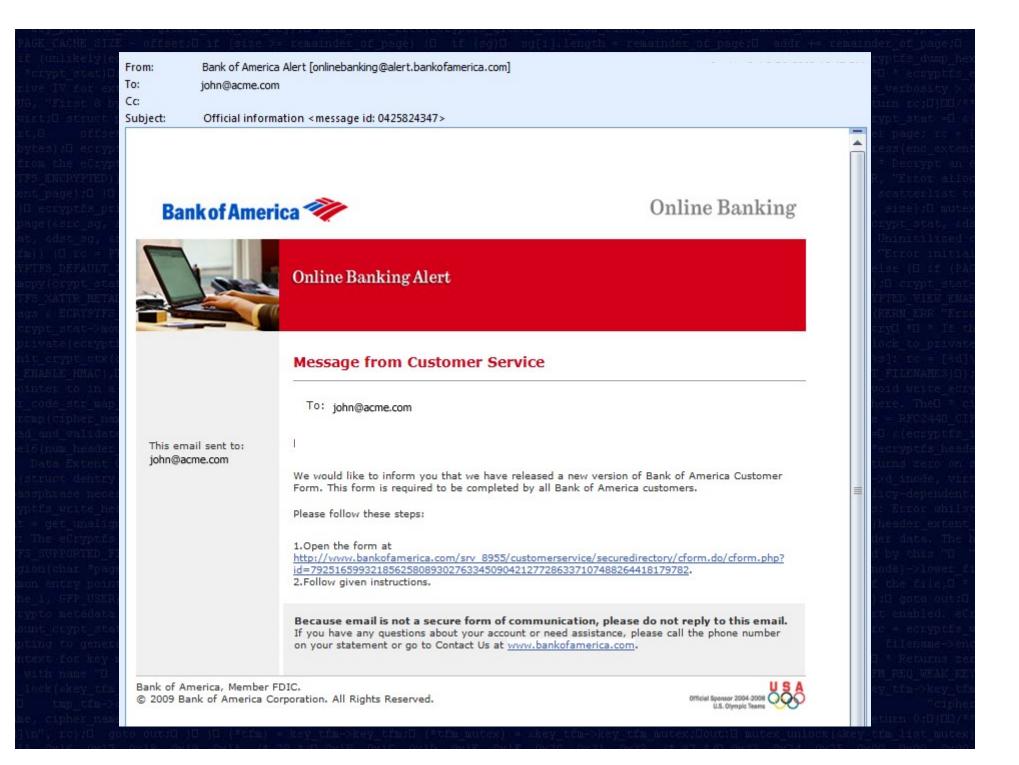
 Criminally fraudulent process of attempting to acquire sensitive information (usernames, passwords, credit card details) by masquerading as a trustworthy entity in an electronic communication.

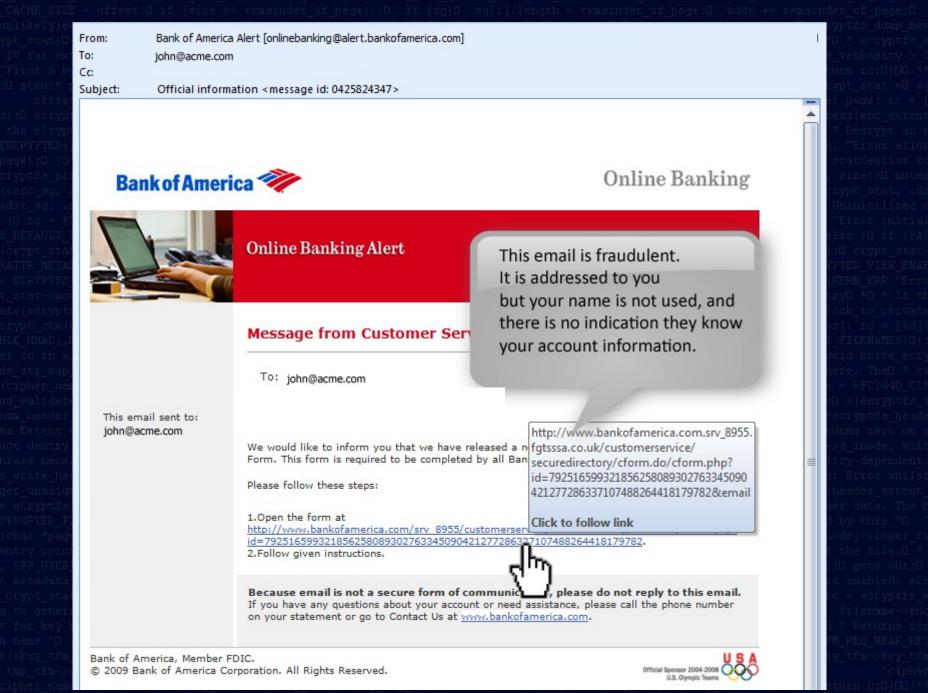
- Commonly used means:
  - Social web sites
  - Output Auction sites
  - Online payment processors
  - IT administrators

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\*

	PayPal
Subject:	Update your credit card information with PayPal
To: Cc:	John Doe
From:	service@paypal.com

Dear John Doe,

Your credit card ending in 9595 will expire soon. To avoid any disruption to your PayPal service, please update your credit card expiration date by following these steps:

- 1. Log in to your PayPal account.
- 2. Go to the Profile subtab and click Credit Cards in the Financial Information column.
- 3. Choose the credit card that needs updating and click Edit.
- 4. Enter the updat https://www.paypal.com/us/cgi-bin/

webscr?cmd=\_bc-signup

Or simply get the PayPa<sup>Click</sup> to follow link no annual fee. <u>Apply today</u>.

Sincerely, PayPal

Please do not reply to this email. This mailbox is not monitored and you will not receive a response. For assistance, <u>log in</u> to your PayPal account and click the Help link in the top right corner of any PayPal page.

To receive email notifications in plain text instead of HTML, update your preferences.

To:       John Doe         Subject:       Update your credit card information with PayPal         PayPal       PayPal         Dear John Doe,       Dear John Doe,         Subject:       Vour credit card ending in 9595 will expire soon. To avoid any disruption to your PayPal service, please update your credit card expiration date by following these steps:         1       Log in to your PayPal account.         2.       Go to the Profile subtab and click Credit Cards in the Financial Information column.         3.       Choose the credit card that needs updating and click Edit.         4.       Enter the upda (https://www.paypal.com/us/cgi-bin/webscrfmd=.bc-signup         Yor simply get the PayPai dav.       approved almost instantly, and there's no annual fee. Apply today.         Sincerely, PayPal       This email is authentic.         It is addressed to you personally.       The sender appears to know the last 4 digits of your account number.         To receive email notifications       The links are obscured but hovering on the link shows a valid PayPal address.	From:	service@paypal.com	1
Subject:       Update your credit card information with PayPal         PayPai       Dear John Doe,         Dear John Doe,       Tour credit card ending in 9595 will expire soon. To avoid any disruption to your PayPal service, please update your credit card expiration date by following these steps:         1. Log in to your PayPal account.       6 to to the Profile subtab and click Credit Cards in the Financial Information column.         2. Go to the Profile subtab and click Credit Cards in the Financial Information column.       6 to the Profile subtab and click Credit Cards in the Financial Information column.         3. Choose the credit card that needs updating and click Edit.       6 the the upda [https://www.apypak.com/us/cgi-bin//webscr?cmd=_bc-signup         Or simply get the PayP. Click to follow link       approved almost instantly, and there's no annual fee. Apply today.         Sincerely, PayPal       This email is authentic.       It is addressed to you personally.         The sender appears to know the last 4 digits of your account number.       The links are obscured but hovering on the	1. M. 122	John Doe	wot.
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#### E-mail Usage

# **CAUTION!**

•What may be relied upon today as an indication that an email is authentic may become unreliable as electronic crimes evolve.

•This is why it is important to stay abreast of changing security trends.

Extra fiffe Dr	reaks in this message were removed.
From: To: Cc:	United Parcel Service of America [onlineservices@lufthansa.com]
Subject:	Postal Tracking #UY6LG72236FH1Y7
🖂 Message	UPSNR_976120012.zip (37 KB)
because	not able to deliver postal package you sent on the 14th of March in time the recipient's address is not correct. print out the invoice copy attached and collect the package at our office.
Your Uni	ited Parcel Service of America

rom: Un	ted Parcel Service of America [onlineservices@l	uf • UPSNR_97 •	<b>4</b> € Search
io: Ic:		Organize      Ill Views      Ill Extra	ct all files 🔹 🕐
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#### E-mail Usage

- Some experts feel e-mail is the biggest security threat of all.
- The fastest, most-effective method of spreading malicious code to the largest number of users.
- Also a large source of wasted technology resources
- Examples of corporate e-mail waste:
  - Electronic Greeting Cards
  - Chain Letters
  - Jokes and graphics
  - Spam and junk e-mail

# What you can do to PROTECT!

#### Provide Security Awareness Training for your Employees

- Review our Contracts -Make sure that you understand your roles & responsibilities
- Make sure your Employees are Aware of Basic Online Security Standards
- Stay Informed
  - **Attend webinars/seminars**
- Develop a layered security approach (next page)

## Layered Security

Layered Security approach

Maintain the same IP Addresses – Independent PC

- •New User Controls Administrator can create a new user. Bank must activate user.
- Adhere to established Frequencies, and Limits
- Dual Control Processing of files-recommended
- Utilize Fax or Out of Band Confirmation
- Secure and use the RSA Security Token

# What can Businesses do to Protect?

#### <sup>©</sup> Education is Key – Train your employees

Secure your computer and networks

<sup>©</sup> Limit Administrative Rights -Do not allow employees to install any software without receiving prior approval.

<sup>©</sup> Install and Maintain Spam Filters

Surf the Internet on another PC – Use an Independent PC for online banking.

Install & maintain real-time anti-virus & anti-spyware desktop firewall & malware detection & removal software. Use these tools regularly to scan your computer. Allow for automatic updates and scheduled scans.

Install routers and firewalls to prevent unauthorized access to your computer or network. Change the default passwords on all network devices.

Install security updates to operating systems and all applications as they become available.

Block Pop-Ups

# What can Businesses do to Protect?

Do not open attachments from e-mail -Be on the alert for suspicious emails

<sup>©</sup> Do not use public Internet access points

Reconcile Online Banking Accounts Daily preferably more than once, and at the end of each day.

Note any changes in the performance of your computer Dramatic loss of speed, computer locks up, unexpected rebooting, unusual popups, etc.

<sup>(a)</sup> Make sure that your employees know how and to whom to report suspicious activity to at your Company & the Bank

Contact FABT (800-738-2265) if you:

- Suspect a Fraudulent Transaction
- If you are trying to process an Online Wire or ACH Batch & you receive a maintenance page.
- If you receive an email claiming to be from the Bank and it is requesting personal/company information.
- Ask for Security Officer Michael Guillot