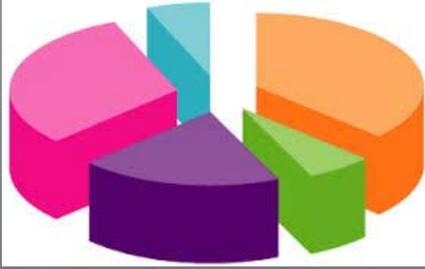


## S- Segment



To increase security, **passphrases should contain characters** from the following categories:  
Upper Case, Lower Case  
Numbers, Symbols



Easy Password Algorithm:  
Number.Phrase.Symbol.Unique Identifier

Example:

It was the best of times,  
it was the worst of times.



## iwbtotiwot

Lowercase  
Characters

of European languages

(a through z, sharp-s, with  
diacritic marks, Greek and  
Cyrillic characters)



## 01IWTBOT IWTWOT

Base 10 Digits

(0 - 9)



## 01IWTBOTIW TWOT.

Non-Alphanumeric  
Characters

(~!@#%&^&\*\_  
+='\|{}[]:;'"<>.,?/)



**T**  
[WWW.CITIBANK.CO](http://WWW.CITIBANK.CO)  
**M**

**01IWTBOTIWTWOT.O**

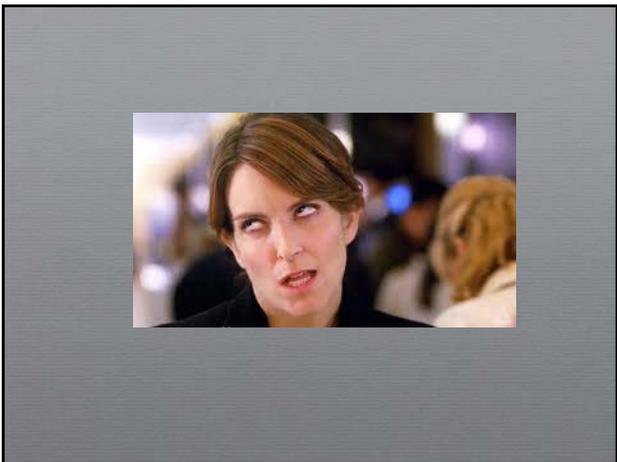
**Uppercase Characters**  
of European languages

**MAIL.GOOGLE.COM**

(A through Z, with diacritic marks, Greek and Cyrillic characters)



Passwords **must not** contain your entire account name, or your full name.



**Quantitative risk assessment**

**ALE = SLE \* ARO**

Where:

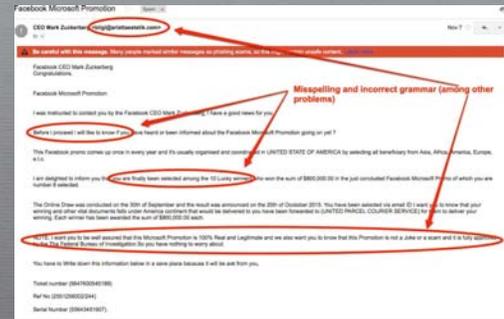
- ALE is the expected **monetary loss** that can be expected for an asset due to a risk being realized over a one-year period
- SLE (Single Loss Expectancy) is the value of a single loss of the asset. This is the **impact** of the loss
- ARO (Annualized Rate of Occurrence) is how often the loss occurs. This is the **likelihood**

A- Authenticate

When suspicious, manually create and address an email in reply to something or manually type the address of the site you want to go to rather clicking on a link within an email.



When reading a subject line or email, look for phrasing or language that doesn't fit or seem right.



If the email pertains to something you didn't do, buy, ship or ask for . . .



Don't open it.

A verbal communication between two people should be required for any transaction that could cost greater than your comfort level of loss



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### Hackers Trick Email Systems Into Wiring Them Large Sums

Scrap processor thought it paid \$100,000 to its vendor: 'We in fact had sent a wire to who knows where'

#BUSINESS NEWS MAY 19, 2016 / 1:07 AM / A YEAR AGO

## Bangladesh Bank official's computer was hacked to carry out \$81 million heist: diplomat

Raju Gopalakrishnan, Manuel Mogato

3 MIN READ

MANILA (Reuters) - A Bangladeshi central bank official's computer was used by unidentified hackers to make payments via SWIFT, and carry out one of the biggest-ever cyber heists, a Bangladeshi diplomat said on Thursday at the end of a Philippine Senate inquiry.

----- Forwarded from the Global Relay Archive -----  
 From: >XXXXXX  
 To: <XXXXX>  
 Sent: Tue, 12 Aug 2014 15:25:26 +0000  
 Subject: Transfer request

Hello Mike,

Please forward to me by return e-mail an updated balance in my accounts. I'm looking to make an emergency wire transfer today and I want to know if the money is there. I should have call it in but I have a toothache that has been killing me. I wanted to let you know that I can't talk over the phone.

Thanks,  
 JXXX Mrs. XXX

From:  
 Sent: Thursday, May 31, 2012 10:03 AM  
 To:  
 Subject: Re: chimney check

Please I just got a call that my class mate just passed away and that put me in a very bad mood. I don't feel like talking to anyone on phone now, please I need you to make cash available for outsource wire transfer in the amount of \$17,450.00. Kindly write back and let me know if the instruction can send to get out wire transfer, I will be very busy all day today and I will be out of the reach of my phone for now. Kindly respond to my email frequently.

From:  
 Sent: Thursday, May 31, 2012 9:56 AM  
 To:  
 Subject: Re: chimney check

Hi Susan, Are you in the office?

Sent: Thursday, May 31, 2012 10:14 AM  
 To: XXXX  
 Subject: Re: chimney check

Is not going to my account is going to my Nephew account.

On Thu, May 31, 2012 at 3:13 PM, XXXX wrote:  
 I should be all set if it is going to your normal account. Thanks

From:  
 Sent: Thursday, May 31, 2012 10:08 AM  
 To:  
 Subject: Re: chimney check

Yes let it go out from my account let me know the wire instruction you need.

On Thu, May 31, 2012 at 3:07 PM, XXXX wrote:  
 Hi XXXXX,

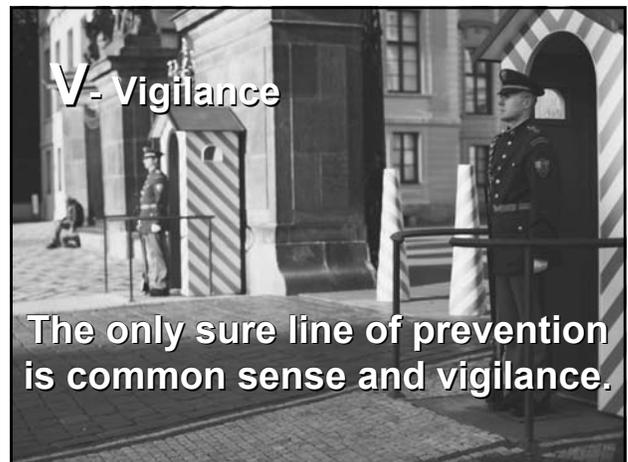
I am so sorry to hear of your loss. Do you want the \$17,450 to go from your account? If so, I can wire the funds now and can send you confirmation once it is sent. Just let us know - thanks.

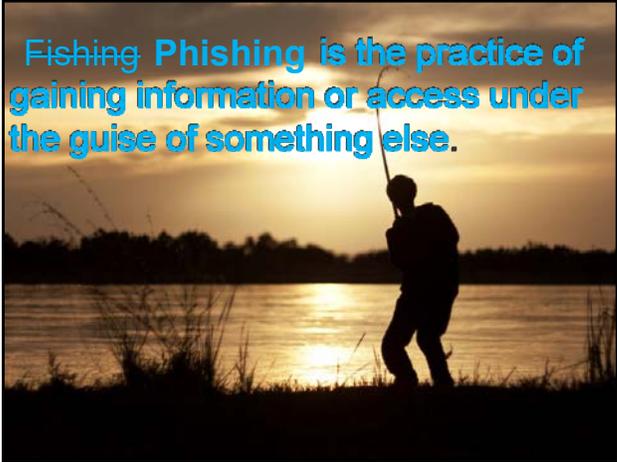
From: XXX@gmail.com  
 Sent: Thursday, May 31, 2012 10:20 AM  
 To: XXXX  
 Subject: Re: chimney check

Please try understand me am really in bad mood and I put my phone off for now, go on and send it out I will call you later in the day let me try get there and know what really happen.

On Thu, May 31, 2012 at 3:18 PM, XX wrote:  
 I need to talk to you if that is ok. Can you please give me a call? Thanks,

	Updates you didn't request to install
	Links to Dropbox or other file sharing programs
	Emails with an invoice saying you purchased something
	Emails from the bank or IRS saying you owe or should receive money
	Emails from FedEx or UPS saying a package is arriving or has shipped
	Emails saying you have a fax or message





Sometimes the display name you see in an email or the sentence that is a hot link might not actually go to the correct email address or link destination implied.

Screen Shot From "FBI" Malware.

At the moment, smart phones and Apple and Google tablets are safe places to open any suspicious emails or links.

If you suspect anything, use your phone or tablet to open the message or website. This will prevent viruses, but do not provide any personal information.

When in doubt,

**DELETE!**

No bank or government agency will communicate urgent matters via email.



WHAT THE RISK ACCESSOR SAID

### Equifax Breach

WHAT I.T. DID



From NY Times 10/31/17  
The company went out an internal email reporting that its technical staff fix the software, but "an individual did not ensure communication got to the right person to manually patch the application," Mr. Smith told the subcommittee. That was compounded by a technical error: The scanning software that Equifax used to detect vulnerabilities failed to find the suspected hole, he said.



WHAT IT COST

Data for 145.5 million people  
and  
1 CIO  
1 CISO  
and 1 CEO

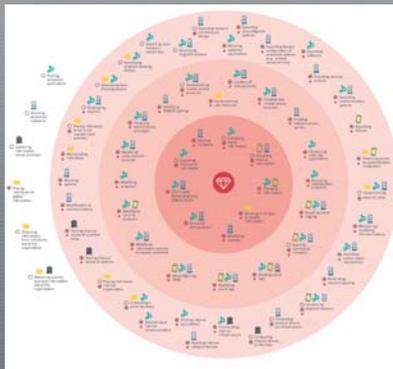
Data never truly deletes.

Do not give away thumb drives or hardware that had **Personally Identifiable Information** on it.

E. Everything is a threat...



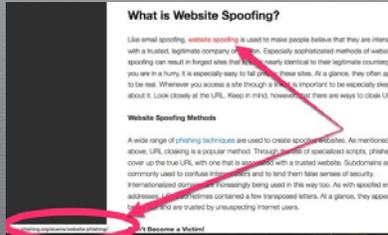
ISF Threat Visualizer



"I did what...?"



If you see a URL or link in an email or website, first put your mouse over it and look in the bottom left corner of the window to see its true destination.



If you connect your computer to a public WiFi service . . .

you are vulnerable to anyone and everyone else on that network.



## The Pineapple by Hak5

[www.hak5.org](http://www.hak5.org)



## Burp Suite by Port Swigger

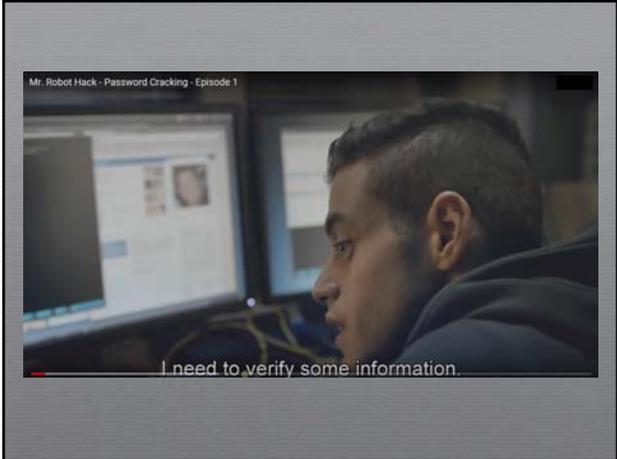
[www.PortSwigger.net](http://www.PortSwigger.net)



You are more secure using a **cellular hotspot**.



Connect to your office with a VPN tunnel first to browse the Internet safely from a public Wi-Fi.



We know you love them, but try not to use the names of spouse, children or pets when creating your password.

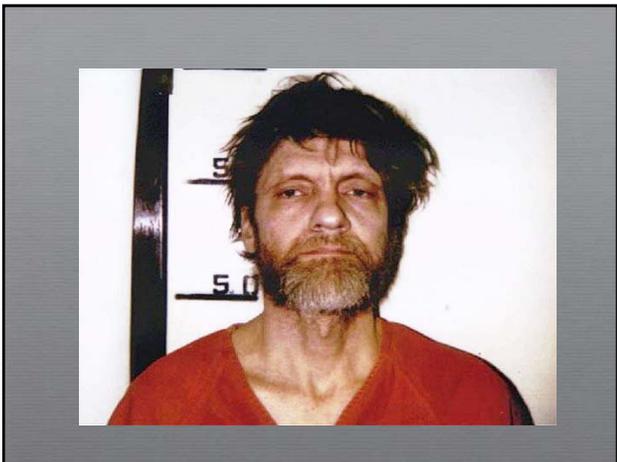


And don't just change the last number of your old password!

You won't always know when they are looking...



Here are a just few **common methods cyber criminals can use to gather info** to gain access just by standing next to you



### Key Points:

- Use segmentation so if one thing is compromised, not everything is lost.
- Use various methods to authenticate material to make sure it's really coming from where you think it is.
- Always be Vigilant.
- Unfortunately, everything is a potential threat these days...



Congratulations on becoming more  
security aware!



Any Questions?