

An Introduction to

SECURITY AWARENESS

Jerome Griffith
Security Awareness Presentation
11/10/2015

SECURITY TOPICS

- INTRODUCTION
 - COMPUTER SECURITY
 - PASSWORDS
 - NETWORK SECURITY
 - SOCIAL ENGINEERING
 - MALWARE
 - HACKERS
 - MOBILE DEVICES
 - BYOD POLICIES
 - POP CULTURE TRIVIA
 - RESOURCES



INTRODUCTION



- Jerome Griffith
- Security+ certified since February 2015
- The Security+ exam covers the most important foundational principles for securing a network and managing risk. Access control, identity management and cryptography are important topics on the exam, as well as selection of appropriate mitigation and deterrent techniques to address network attacks and vulnerabilities.

<http://certification.comptia.org/getCertified/certifications/security.aspx>

RESOURCES

[comptia.org/advocacy/policy-issues/cybersecurity](https://www.comptia.org/advocacy/policy-issues/cybersecurity)

The screenshot shows the ComptIA website's advocacy section for cybersecurity. The main heading is "Cybersecurity". Below it, a paragraph discusses the importance of cybersecurity legislation. A sidebar on the left lists "Cybersecurity Committees" and "Press Releases". A "FEDERAL" button is highlighted. On the right, there's a social sharing box with icons for LinkedIn, Email, Print, Facebook, Twitter, and Plus, showing 0 shares. A search bar asks "WHAT ARE YOU LOOKING FOR?" with dropdowns for "I am a..." and "I want to...". A red "TAKE ME THERE!" button is at the bottom. A "CONTACT" section at the bottom right includes a photo of Randi Parker, Director, Public Advocacy, with her email address rparker@comptia.org.

Cybersecurity has become a greater focus at the state, federal and international levels of government. CompTIA believes that any cybersecurity legislation should preserve the vitality of innovation and promote the sector's ability to respond to constantly evolving cyber threats. To meet this objective, CompTIA and its members are dedicated to maintaining and expanding the partnership between the private sector and the government to address our nation's cybersecurity preparedness.

CompTIA asserts that there be a national cybersecurity strategy that focuses on policy issues including Critical Infrastructure management, Information Sharing, Federal Information Security Management Act (FISMA), Education and Awareness, and International Cybersecurity Issues.

Cybersecurity Committees

FEDERAL

Press Releases

Business Cybersecurity Readiness is a Tale of Two Employee Groups, CompTIA Asserts
Nov 11, 2015

Combat Cybersecurity Risks and Threats with CompTIA CyberSecure™
Oct 29, 2015

ComptIA Participates in NSA Day of Cyber National Initiative

CONTACT

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Director, Public Advocacy
rparker@comptia.org

cnet.com/topics/security/

cyberark.com/blog/

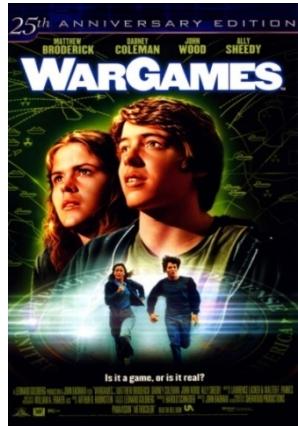
www.infosecnews.org/

lifehacker.com/

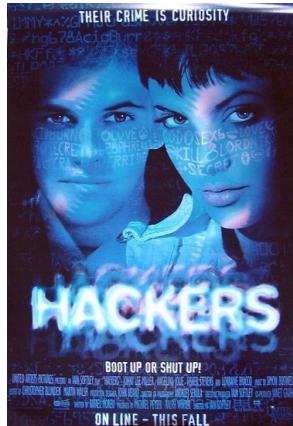
COMPUTER SECURITY



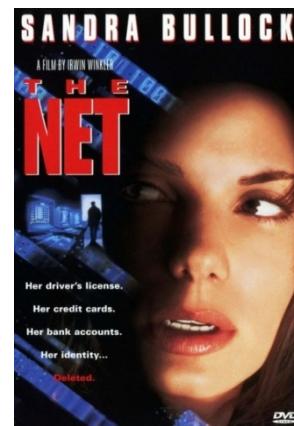
Movies about Computers and Technology



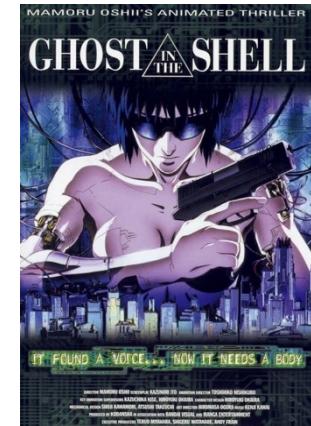
Matthew Broderick, 1983



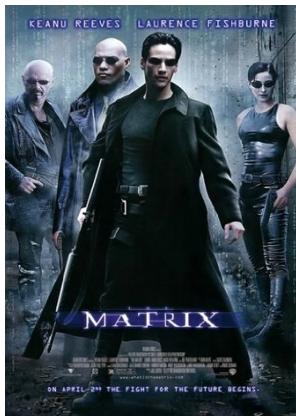
Angelina Jolie, 1995



Sandra Bullock, 1995



Dir. Mamoru Oshii, 1995



Keanu Reeves, 1999

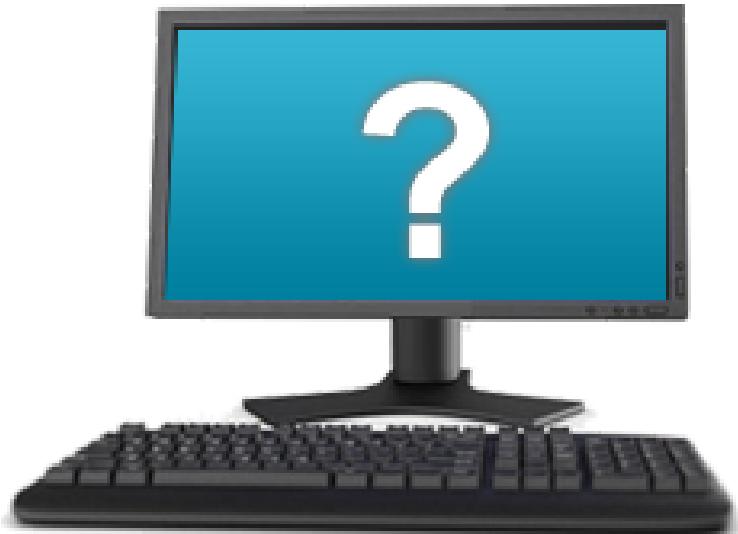


Bruce Willis, 2007



Chris Hemsworth, 2015

Is Your Computer Secure?



- Do you have sensitive data?
- Who has access?
- Your Location/neighborhood?
- Passwords strong enough?
- Your Mobile devices?
- Your surroundings?

Personal Computer Security

- If there are multiple users on one computer, let each user log in with their own profile.
- Back up your files to an external hard drive or cloud storage. You never know what could happen to your computer/laptop.



Images from: aulibmedia.blogspot.com and <http://www.corbisimages.com>
<http://lifehacker.com/the-most-important-security-settings-to-change-on-your-1573958554>

Personal Computer Security

- Have an active anti-virus software automatically scan and update on your computer.
- Have secure internet/wi-fi connection. (More on this later)



Workstation Computer Security

- Beware of your surrounding work area and report suspicious people and behavior.
- For your own safety, do not try to confront a suspicious person on your own. **Contact the company security desk.**
- Lock your computer screen when you step away from your desk.



Image from <http://www.corbisimages.com>

Workstation Computer Security

- **Don't hide passwords under your keyboard or mouse pad.**
- Remember passwords or save them in a **password management program**. (Call [Company] Help Desk and ask them to download KeePass password manager)



Image from <http://www.corbisimages.com>

Workstation Computer Security

- A real [Company] Help Desk technician can ask for your username BUT will NOT ask you for you password!



PASSWORDS



Passwords: Facts and Tips

- Password Complexity
- Password Length
- Password Hacking/Cracking
- Password Manager Software
- How Passwords Actually Work

Are These Good Passwords?

- abcdefg
- 123456

Good vs Bad Passwords

OK Password:	Better Password:	Excellent Password:
kitty	1Kitty	1Ki77y
susan	Susan53	.Susan53
jellyfish	jelly22fish	jelly22fi\$h
usher	!usher	!ush3r
ebay44	ebay.44	&ebay.44
deltagamma	deltagamm@	d3ltagamm@
ilovemy piano	!LoveMyPiano	!Lov3MyPiano
Sterling	SterlingGmail2015	SterlingGmail20.15
BankLogin	BankLogin13	BankLogin!3
Shelby	ShelbyPass1	Shelby.Pass1.
Rolltide	RollTide%	RollTide%.%

GIZMODO.com/the-25-most-popular-passwords-of-2014-were-all-doomed-1680596951

<http://netforbeginners.about.com/od/antivirusantspyware/f/What-Strong-Passwords-Look-Like.htm>

Password Trivia

DID YOU KNOW...

- The most common password is password
- Followed by 123456

Secure Passwords

TIPS AND TRICKS

- Use a combination of letters, numbers and symbols in your passwords.
- Use more than 8 characters.
- The longer the password the harder for hackers to crack it.
- Don't use names of close family members, pets or birth dates.

Secure Passwords

PASSWORD COMPLEXITY

- Password: insteadofthis
- Password: Ma4eA-P@sxw0RdL*k3Th1s

Secure Passwords

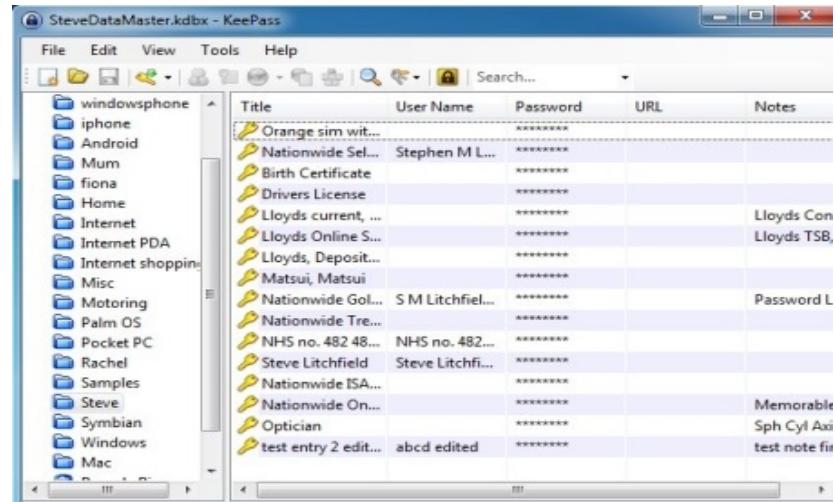
Password Manager

- Use a **password manager** to save all your usernames and passwords.
- This way you can create complex passwords without worrying about forgetting them.

Secure Passwords

Password manager program examples

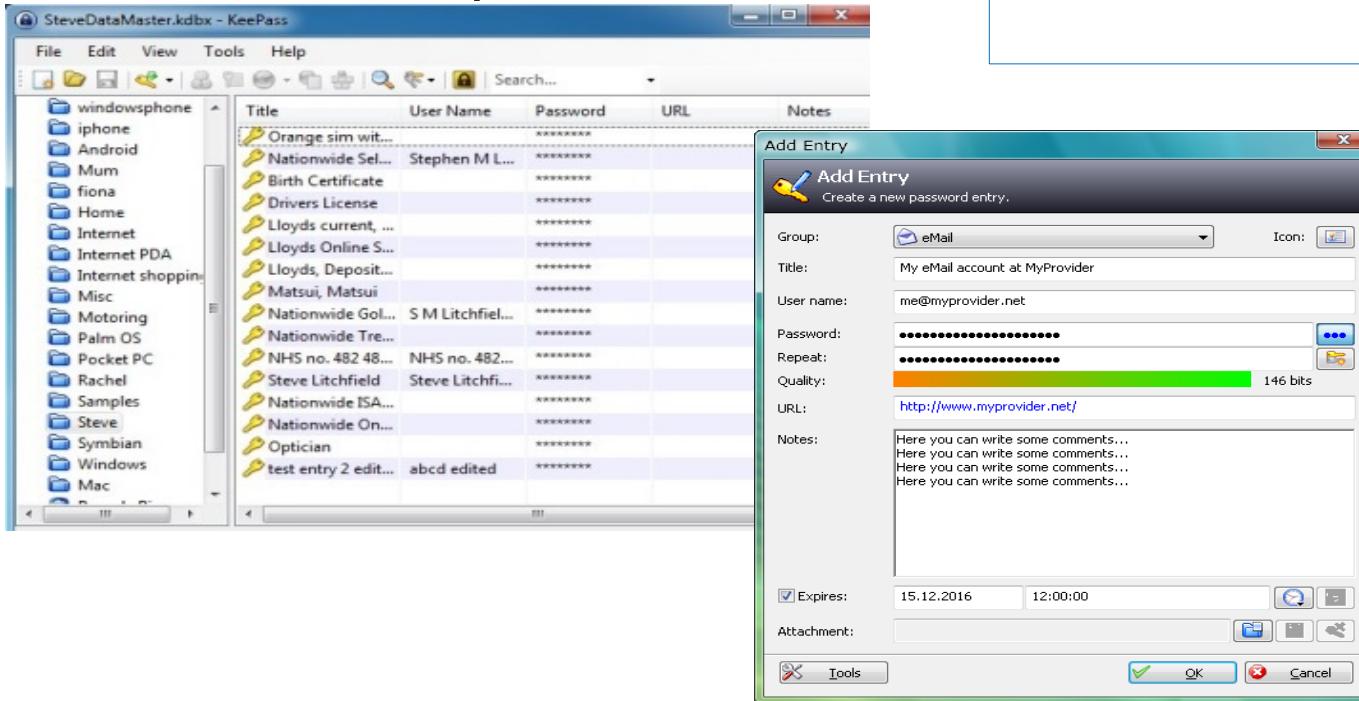
- KeePass
- LastPass
- Kaspersky



Secure Passwords

Password Manager

- KeePass Example



KeePass.info

GIZMODO.com/the-25-most-popular-passwords-of-2014-were-all-doomed-1680596951

Go to keepass.info

How Passwords Work

Hashing

- Website saves encrypted password into a random series of letters, numbers and symbols call a **Hash**.
- At login – enter password – its encrypted and compared to the hash value.
- If the hash value and password match the user is authenticated.



```
deb46f052152cfed79e3b96f51e52b82c3d2ee8e  
00000dc7cc04ea056cc8162a4cbd65aec3d2f0eb  
00000a2c4f4b579fc778e4910518a48ec3d2f111  
b3344eaec45b5720ca23b338e58449e4c3d2f628  
674db9e37ace89b77401fa2bfe456144c3d2f708  
37b5b1edf4f84a85d79d04d75fd8f8a1c3d2fbde  
00000e56fae33ab04c81e727bf24bedbc3d2fc5a  
0000058918701830b2ccca174758f7af4c3d30432  
000002e09ee4e5a8fcdae7e3082c9d8ec3d304a5  
d178cbe8d2a38a1575d3feed73d3f033c3d304d8  
00000273b52ee943ab763d2bb3d83f5dc3d30904  
4f05e273b52ee943ab763d2bb3d83f5dc3d30904  
e417aded63377c45bbb7405edaa53d3cc3d30ba6  
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000009c7f74c8061dd374ccb0565eec3d30e5d  
0000008b929083820c449e553aaed98fc3d30e88  
000007f5e9c746af19b59420d112a00ac3d30f06  
00000cbccc8597dcad1931aa3d642dafc3d311e3  
000009be0c87f19bd107ba2a6071c211c3d31450  
000004c2694f78f6d51a4c975b027812c3d31716
```

How Passwords Work

Hashing

- The longer and more complex the password, the longer and more complex the Hash value will become, Making it harder for hackers to crack your password.

A	B	C	
User Name	Clear-Text Password	LAN Manager-Hashed Password	Minutes & Seconds to Crack
Amy	Jhjklhf	9e1c6fde38d236d0aad3b435b51404ee	3:39
Betty	Giants	4a24a40dfoa37fd3aad3b435b51404ee	3:22
Jenny	Giants	4a24a40dfoa37fd3aad3b435b51404ee	3:22
Karen	rollinriver	fdb30d8b81af25ef6a24d62438290ba9	6:05
Mike	Imhappy	af0e3973994ebb24aad3b435b51404ee	1:17
Nancy	H553f83	f6ed43566b1c84ccaaad3b435b51404ee	1:30
Steve	pizzalover63	753c086c08af27e7463ofc68a98b195a	7:53
Tom	Giants	4a24a40dfoa37fd3aad3b435b51404ee	3:22
William	Mypass	92315c8b485693a7aad3b435b51404ee	1:48

GIZMODO.com/the-25-most-popular-passwords-of-2014-were-all-doomed-1680596951
<http://www.journalofaccountancy.com/issues/2009/jul/20081305.html>

How Hackers Crack Passwords

- Techniques like **Brute Force** and **Dictionary Attack**.
- They often use programs that automatically guess any possible password until the software cracks the password.

How Hackers Crack Passwords

- Also by **Phishing**. They get people to provide them through social engineering.
- **The more complex your password the harder it is for the hacking program to figure it out and crack your password.**

Statistics

- People aged **18-24** are the highest group at risk
- **38%** of victims had their debit or credit card number stolen
- **43%** of all identity theft is a result of stolen wallets and paperwork
- **1 in 10** U.S. consumers have already experienced identity theft

Millions

Of accounts get hacked every year!

Exact figures are unknown.

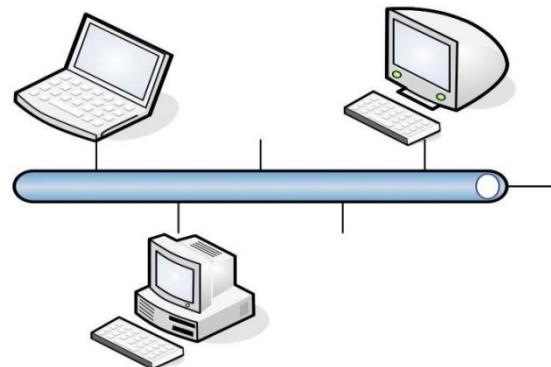
**Passwords are like underwear: you
don't let people see it, you should
change it very often, and you
shouldn't share it with strangers.**

— *Chris Pirillo*

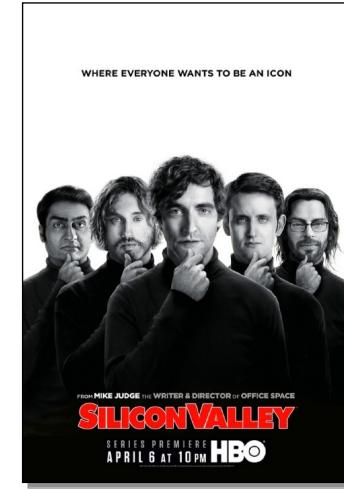
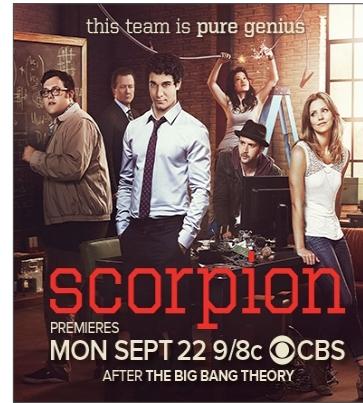
Founder and CEO of LockerGnome, Inc.

NETWORK SECURITY

(Internet, Intranet and WiFi)



TV Shows about Computers and Technology



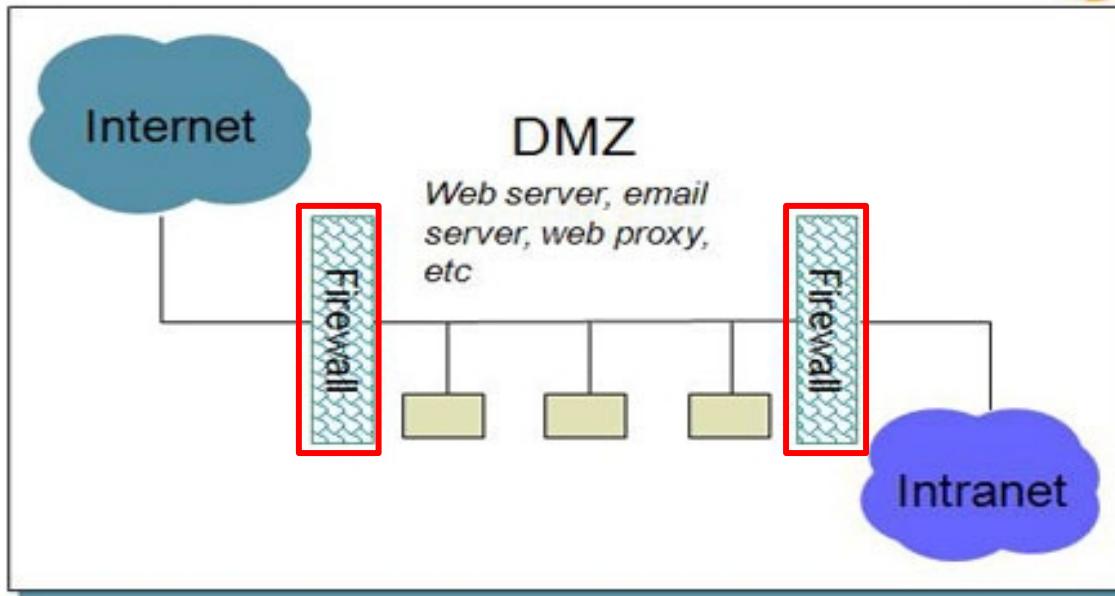
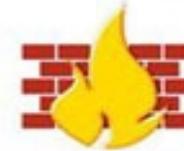
Network Attacks

Firewalls, DMZs and Switches are network defenses against the following attacks:

- **Brute Forces Attack**
- **Dictionary Attack**
- **Denial of Service (DoS)**
- **Birthday Attack**
- **Ping Flood Attack**
- **Man-in-the-Middle**
- **Packet Sniffing**
- **War Driving**

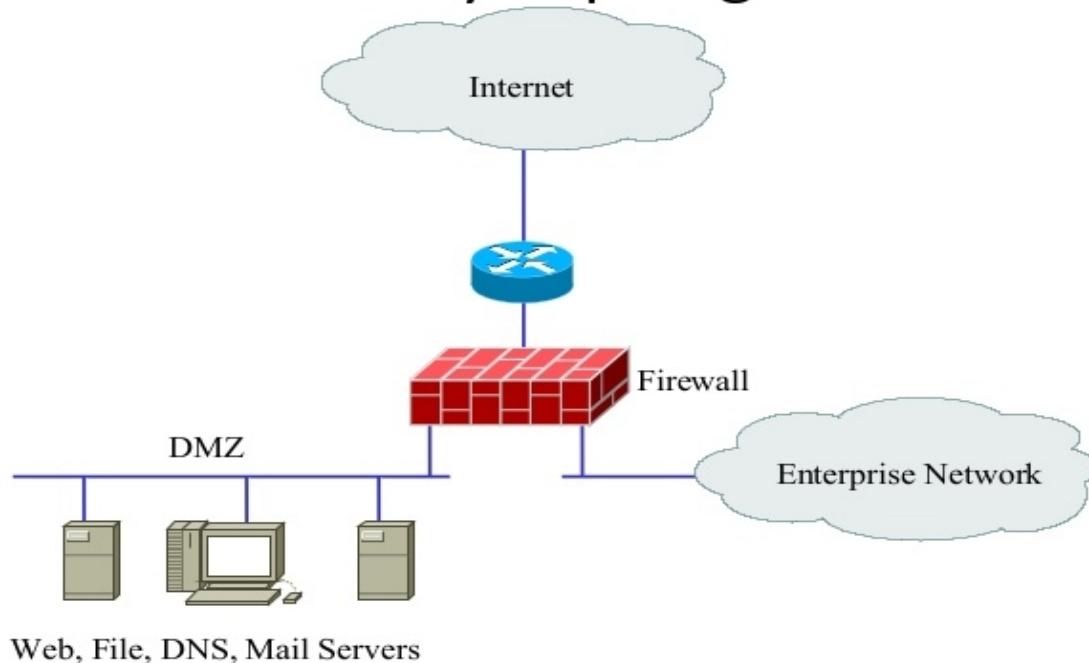
Network Security

Firewalls

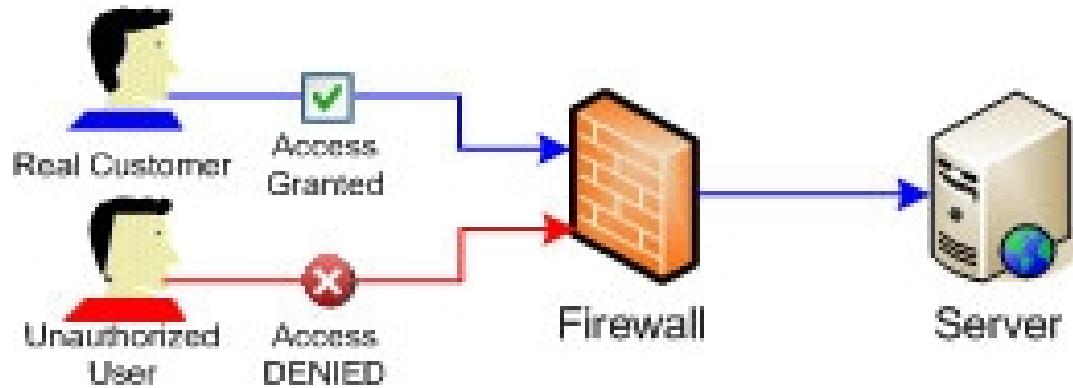


Network Security

Security Topologies

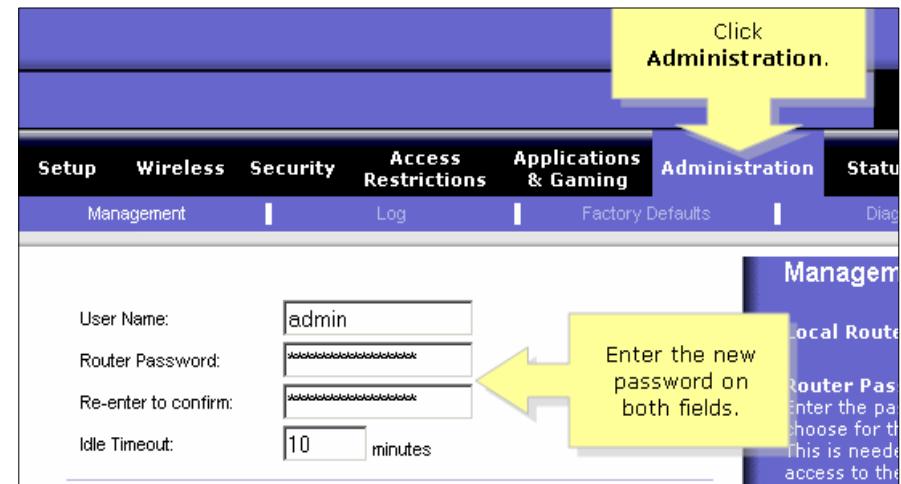


Network Security



Internet and Wireless Network Security

- Change your default username and password for your wired and wireless internet connection.
- Anyone can search for default passwords on the internet and use your internet.



Images from Messer Studios, LLC, ProfessorMesser.com
community.linksys.com

Internet and Wireless Network Security

- Be sure to use secure Wi-Fi settings and connections. **WPA2-AES** is the strongest setting.
- **Do NOT use WPA and WEP settings.** WEP is the weakest setting.



The screenshot shows a software interface for configuring a wireless network. At the top, there is a navigation bar with icons for Main, Wireless Settings (which is selected), My Network, Firewall Settings, Parental Control, Advanced, and System Monitoring. Below the navigation bar, the title "WPA2" is displayed. The configuration section includes the following fields:

- Authentication Method:** Pre-Shared Key (selected)
- Pre-Shared Key:** EnjoySummerB4Its2L8 (highlighted with a red box)
- Encryption Algorithm:** AES (highlighted with a red box)
- Group Key Update Interval:** 900 Seconds (checkbox checked)

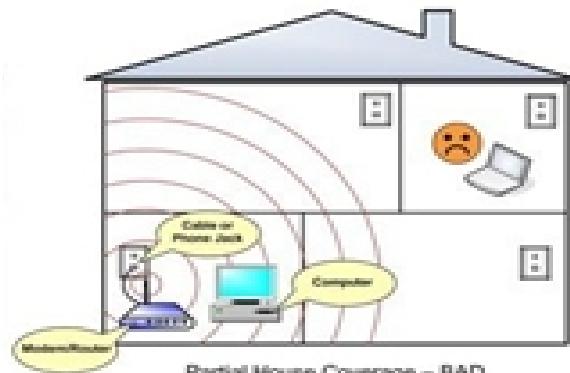
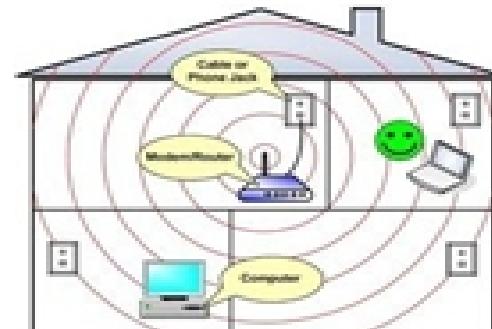
At the bottom of the screen are two buttons: "Back" and "Apply".

Images from Messer Studios, LLC, ProfessorMesser.com
Verizon.com

Internet and Wireless Network Security



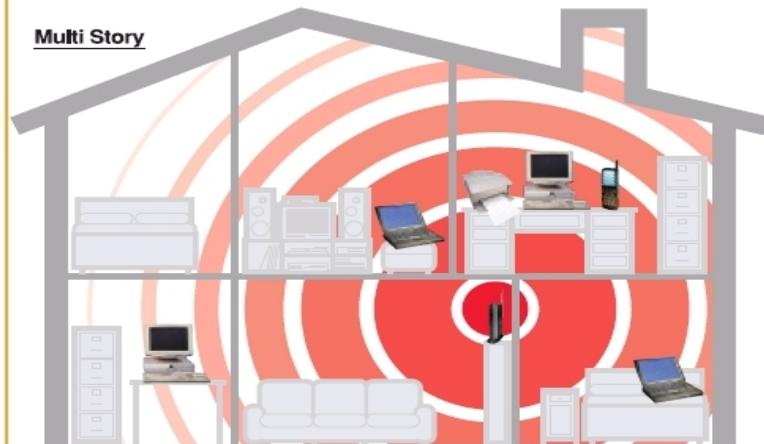
- Place your **wireless access point** in the center or top floor of your home for even wireless distribution.
- Don't have the wireless strength too strong that it extends too far outside your home. You can be victim of **War Driving** attack. This is when someone drives or walk around a neighborhood looking for weak or open internet accounts.



Internet and Wireless Network Security



Poor Placement of Router – Location is not central to wireless network. Too many walls, floors, heavy furniture and electronic equipment (which may cause interference) intervening, may result in weak or lost signal.



Optimal Placement of Router – Location is central to wireless network. Intervening walls, floors, and heavy furniture are minimized, electronic equipment (which may cause interference) is moved, allowing the maximum signal.

SOCIAL ENGINEERING



**If you think technology can solve
your security problems, then you
don't understand the problems and
you don't understand the technology.**

— *Bruce Schneier*
American cryptographer,
computer security and
privacy specialist

<http://www.itscolumn.com/2011/08/top-10-it-security-quotes/>

Social Engineering

- A non-technical method of intrusion hackers use that relies heavily on human interaction and often involves tricking people into breaking normal security procedures.



Social Engineering Techniques

- Phishing
- Whaling
- Dumpster driving
- Tailgating
- Shoulder Surfing

Phishing



- Social engineering with a touch of spoofing
- Often delivered by email spam, IM, etc.
- Don't be fooled, check the URL
- **Vishing** is done over the phone.
- Fake security checks or bank updates
- Spear Phishing/Whaling



Phishing



- Don't be fooled, check the URL

I sent you an eCard from AmericanGreetings. Happy Valentine's Day ! - Thunderbird

File Edit View Go Message OpenPGP Tools Help

Get Mail Write Address Book Decrypt Reply Reply All Forward Delete Junk Print Stop

Subject: I sent you an eCard from AmericanGreetings. Happy Valentine's Day !
From: AmericanGreetings <services@american greetings.com>
Date: 13/02/2007 22:46
To:

Greeting Card Notice with real-looking return address

To view your eCard, choose from the options below.
Click on the following link.
[1] <http://www.americangreetings.com/view.pd?i=414303935&m=2157&rr=z&source=ag999>
Or copy and paste the above link
If you have any comments or ques
[2] <http://www.americangreetings.com/view.pd?i=414303935&m=2157&rr=z&source=ag999>
Thanks for using AmericanGreetin

The address looks real but the actual link is hidden and leads to malware

References

1. <http://qgjjdfa.americangreetings.net/uk/viewcard.html>
2. <http://qgjjdfa.americangreetings.net/uk/viewcard.html>

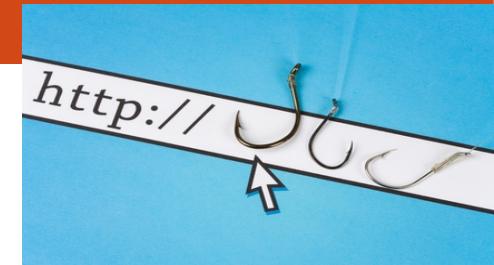
http://www.hacksSpoof-legit-website/92437592478909

Whaling



- A Social engineering technique by sending **fake emails** in an attempt to trick **Management and/CEOs** of a company into disclosing sensitive information about the person or company. (catching the Big Fish!)

Phishing Awareness Training



- Some companies have a Phishing Awareness training campaign.
- If you receive a suspicious email in your Outlook click the Report Phishing button at the top right corner.



Dumpster Diving



Image from <http://barfblog.com/wp-content/uploads/2013/03/dumpster-dive-flickr-diegoefuego.jpg>

Dumpster Diving



- Searching through neighborhood dumpsters and trash cans for sensitive documents that may not be properly discarded.
- Utility bills, social security number, etc.
- **Can you guess other documents they may search for?**
- Bank and credit card statements, medical bills, junk mail with credit card offers, and more
- Shred these documents first!

Use A Paper Shredder

- Use the right type of shredder.

Strip Cut	Cross-Cut	Micro-Cut	High Security
Security Level 2	Security Level 3	Security Level 4	Security Level 6
			
39 -- 7/32" strips per 8.5" x 11" page	399 particles per 8.5" x 11" page	3,000 particles per 8.5" x 11" page	13,000 particles per 8.5" x 11" page
Ideal for: Non-confidential documents	Ideal for: Credit/College Applications, Insurance papers, Junk mail	Ideal for: Medical Records, Employee/HR Files, Bank/Financial Statements	Ideal for: Top Secret or Classified Government Documents

Not Secure
Enough

Aim For One Of These

Even Better!

The shredders in the office are in this range.

Tailgating / Piggy Backing

- An attacker, seeking entry to a restricted area secured by unattended, electronic access control, simply walks in behind a person who has legitimate access.
- Following common courtesy, the legitimate person will usually hold the door open for the attacker.



Shoulder Surfing

- You're in a public setting, (Library, coffee shop) and someone is literally looking over your shoulder at you screen to see your private information like bank account number, credit card number, facebook account, email, password, etc.
- This happens a lot on airplanes and waiting lounges.



Shoulder Surfing Prevention Tips

- Delay logging into sensitive websites like bank accounts until you get home.
- If you must access confidential information when you're in public purchase a **Privacy Filter/Protector** for your laptop so people behind you cannot see the contents of your screen at all.



image from www.alibaba.com

Detecting / Stopping Social Engineering Attacks

- The simplest way to defend against social engineering attacks is to **use common sense**.
- **Someone creating a tremendous sense of urgency.** If you feel like you are under pressure to make a very quick decision, be suspicious.
- **Someone asking for information** they should not have access to or should already know.

Detecting / Stopping Social Engineering Attacks

- **Something too good to be true.** A common example is you are notified you won the lottery, even though you never even entered it.
- **If you suspect someone is trying** to make you the victim of a social engineering attack, do not communicate with the person any more.



<http://searchsecurity.techtarget.com/definition/social-engineering>
www.securingthehuman.org
techaddictz.wordpress.com

Preventing Future Social Engineering Attacks

- Never Share Passwords
- Don't Share Too Much Information
- Verify Contacts



Social Engineering Awareness

- Many companies have **training sessions to teach employees** how to be aware of malicious social engineering.
- Organizations perform **penetration tests** using social engineering techniques to test their employees, security and systems.

MALWARE



Malware / Viruses



- '**Malware**' is an umbrella term used to refer to a variety of forms of hostile or intrusive software,
- It can take the form of executable code, scripts, active content, and other software.

Types of Malware

- Computer viruses,
- Worms,
- Trojan horses,
- Ransomware,
- Spyware,
- Adware,
- Scareware,
- and other malicious programs.



Anti-Malware



- Always have an anti-malware/anti-virus program activated on your computer, laptop, tablet, cell phone, etc.

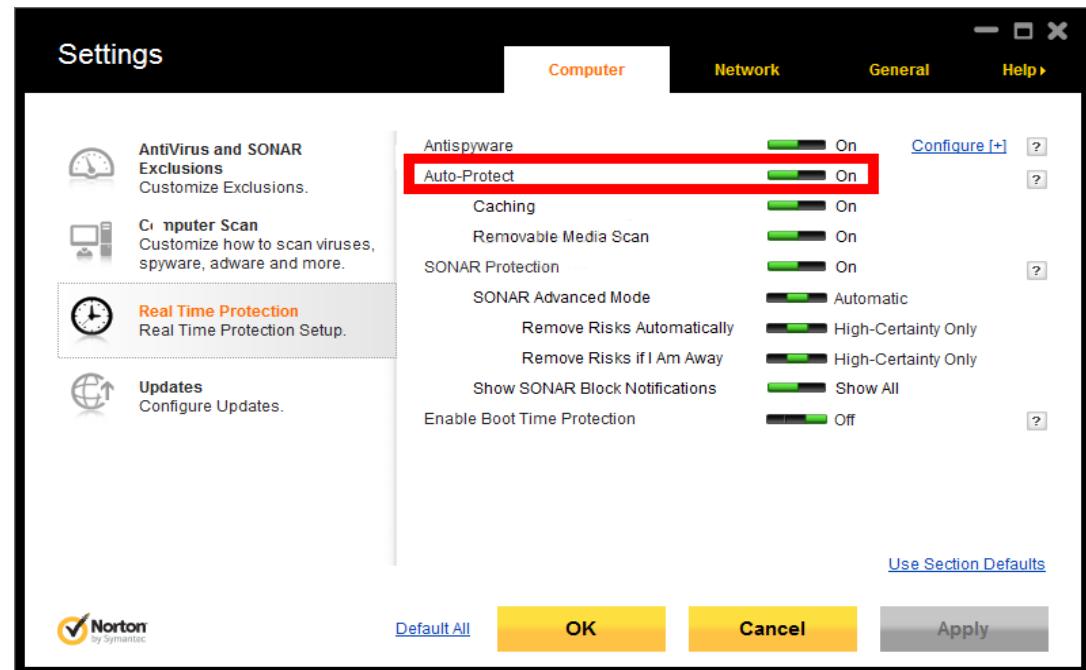


Image from www.ctimls.com
<https://en.wikipedia.org/wiki/Malware>

Anti-Malware



- What's wrong with these settings?



<https://en.wikipedia.org/wiki/Malware>

Anti-Malware



- Always update your anti-virus software when it asks you to do so.

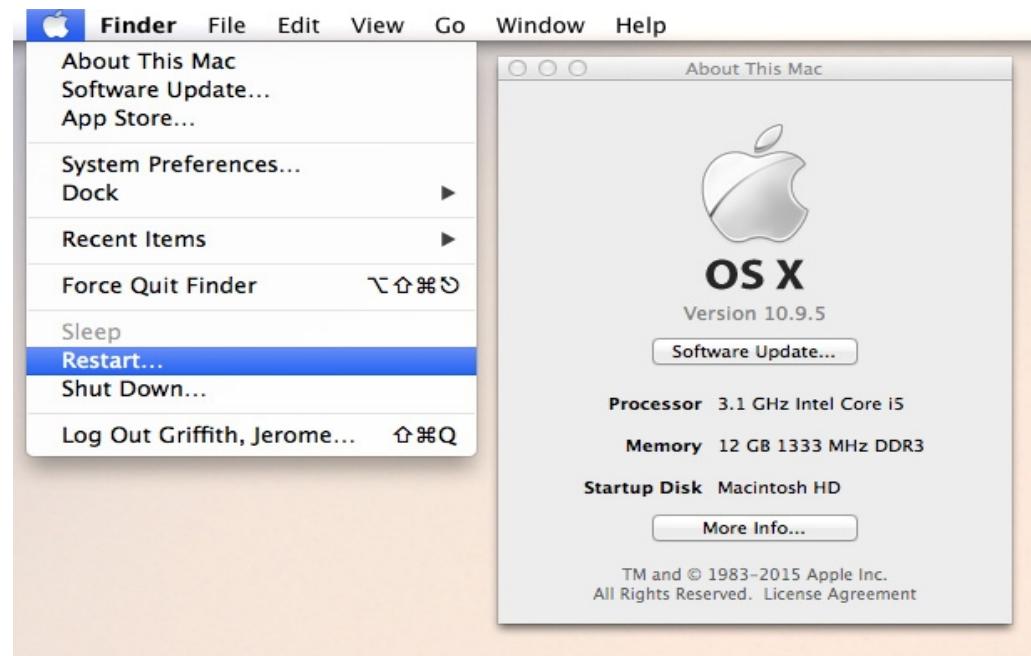


<https://en.wikipedia.org/wiki/Malware>

Anti-Malware



- Workplace computers are automatically updated, so reboot at the end of each day.

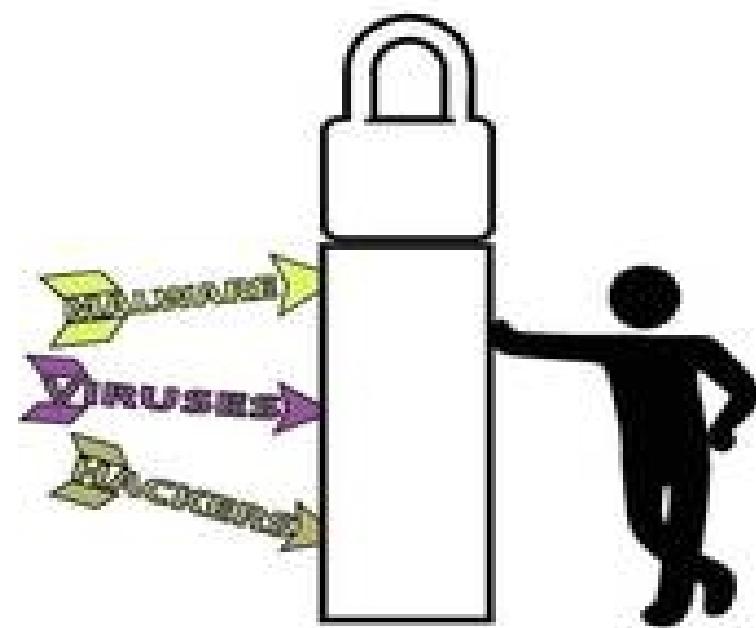


Screen shot by Jerome Griffith

Anti-Malware Recommendations

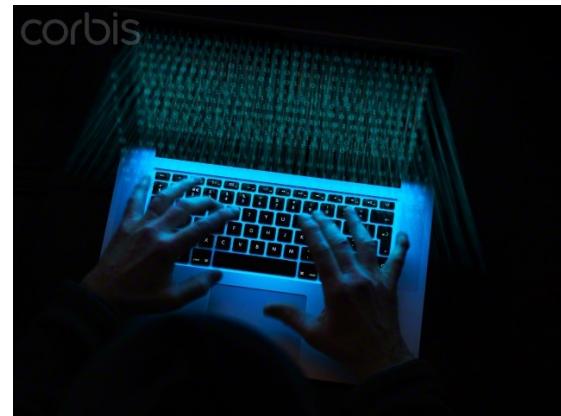


- Norton AntiVirus
- McAfee
- MalwareBytes
- Bitdefender
- AVG



<https://en.wikipedia.org/wiki/Malware>
<http://www.top10antivirussoftware.com>
<http://top5antivirussoftware.com/>

HACKING



Hacking Software and Codes

- Hackers either **download software** from the internet or **develop their own programs** to infiltrate networks and computers.



Image from <http://www.corbisimages.com>

Hacking Software and Codes

- Some **write codes or scripts to infiltrate/hack** passwords, email, databases, computers, etc.



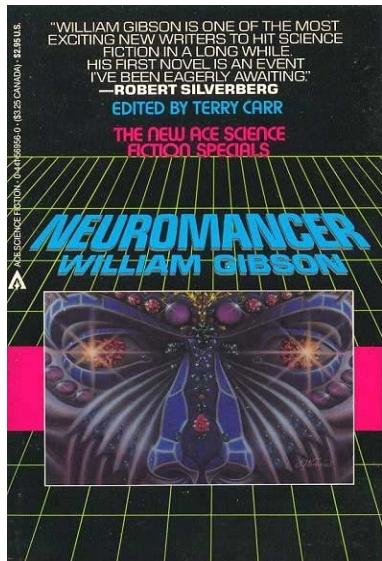
Image from <http://www.corbisimages.com>

**If you spend more on coffee than on
IT security, you will be hacked.
What's more, you deserve to be
hacked.**

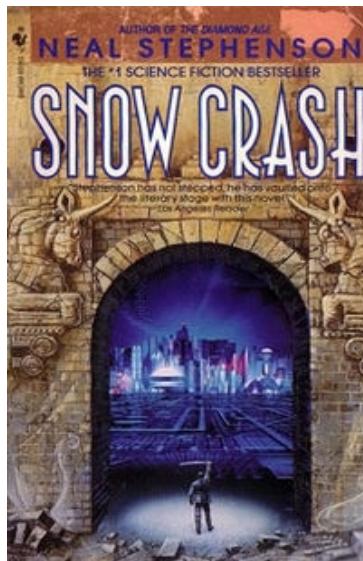
— *Richard Clarke*

Former National Coordinator for Security,
Infrastructure Protection,
and Counter-terrorism for the United States.

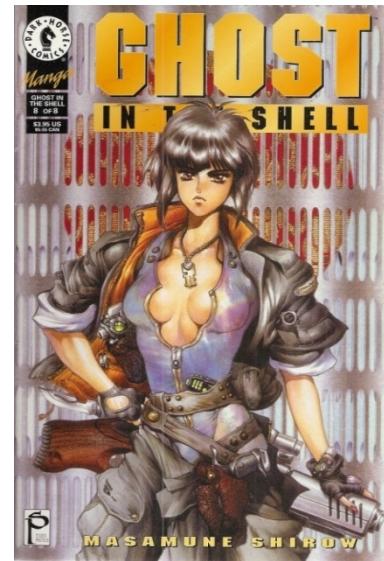
Novels about Computers and Technology



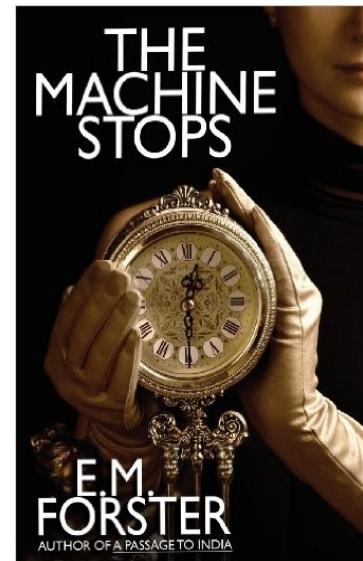
Neuromancer
William Gibson (1984)



Snow Crash
Neal Stephenson, 1992

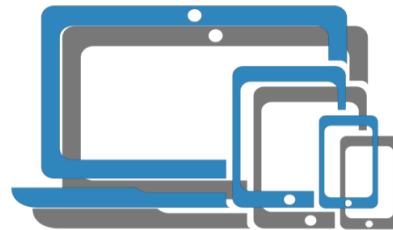


Ghost in the Shell
Masamune Shirow (1989)



The Machine Stops
E. M. Forster (1909)

MOBILE DEVICES





<http://mi-backup.co.uk/mi-briefcase/>

Whats Wrong with this picture?



What do you see in this picture?



Mobile Device Security Tips

- **Setup a passcode or swipe pattern for your smart phone and tablet.**
- **Location Apps:** Find your device if lost by making a sound or display message.
E.g. *Device Manager* app.
- **Remote Wipe:** Delete all info and data from device if lost for good.
- **Remote Backup:** Backup everything automatically to cloud storage. Example: Google Apps for Android devices.



Device
Manager



Mobile Device Security Tips

- Only download apps from trusted sources like **Apple App Store** and **Google Play**.
- Make sure your **apps are up to date** for security patches from the app developers.
- Uninstall apps you are not using.
- Install and activate an **Anti-Virus software** on your mobile device.



Mobile Device Security Facts

- **Travel** is the number one way mobile devices are lost.
- Most are lost at **security check points**.
- **Authorized Apps** on company tablets.
- About **50 company devices are lost per year**. That's almost one device per week.



BYOD Policies

Bring Your Own Device Policies

- Acceptable use of personal mobile devices – smartphones, tablet devices, laptops, PDAs, flash drives – in the workplace.
- Rules and Restrictions
- Security concerns

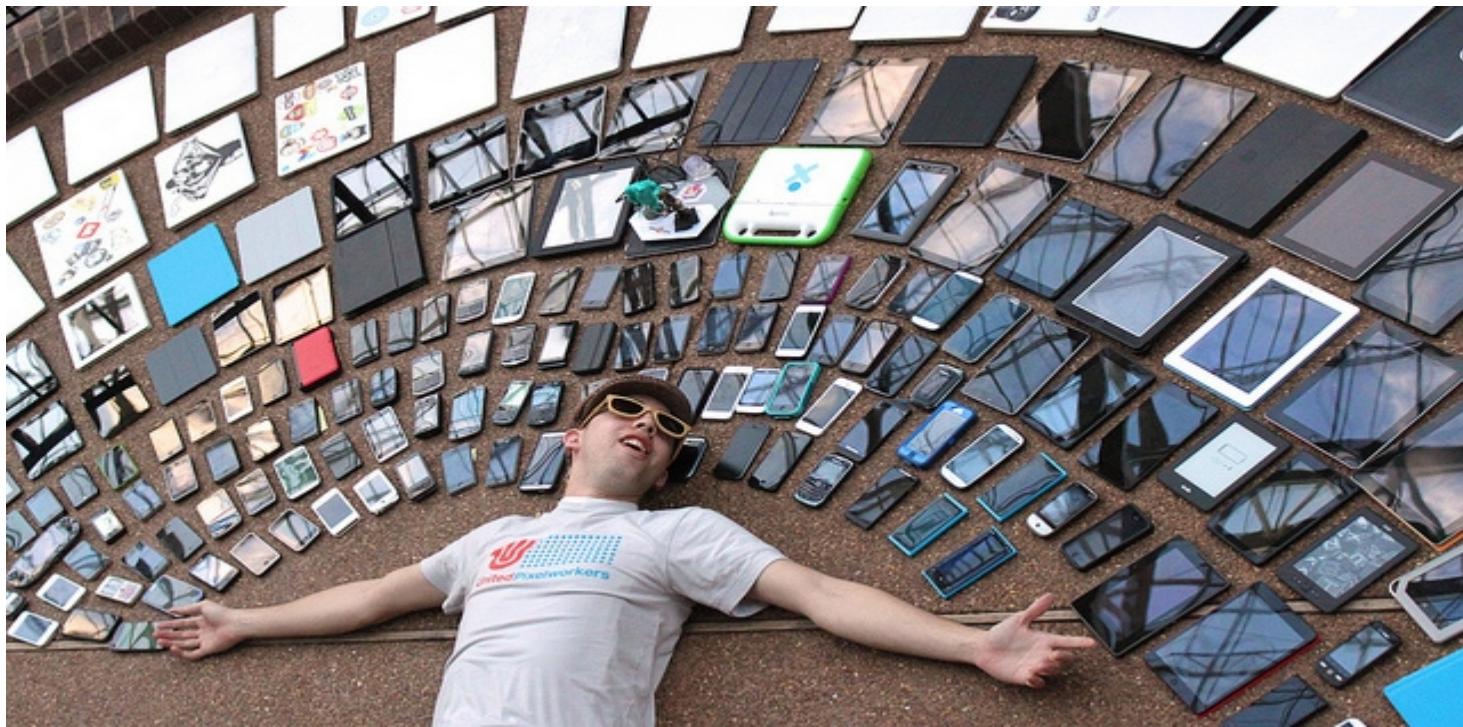


BYOD Policies

- Personal devices should not be used to perform work related tasks unless authorized (except when using Citrix to remote into your work stations).
- Work related files should not be downloaded to your device.
- Employees may connect their personal devices to the **company's WiFi** network to access the internet.
- Employees can use an **Entrust token** for authentication login to their MS Outlook/work email and Workstations from their laptop or other mobile device.



Mobile Devices and Access; Version 3.2; April 6, 2015; Prepared by: Jeff Snyder
GMM: Good Mobile Messaging application. Used for access to corporate email on a personal device .
Image from T. Rowe Price MediaBeacon DAL.



<http://sproutsocial.com/insights/trends-2014-social-mobile-synonymous-now-heres/>

Cyberpunk

- A genre of science fiction set in a lawless subculture of an oppressive society dominated by computer technology.



**Science
Fiction
Is becoming
Science
Fact.**

Positive Impact of Technology

Virtual classrooms, bionic prosthetic arms and legs for humans and animals, GPA devices and more!

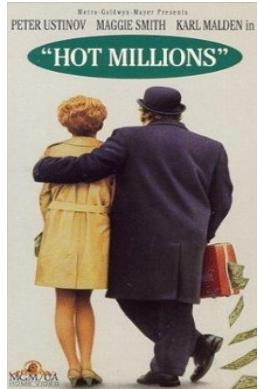


Images from various sources.

**WHAT WAS THE FIRST
MOVIE TO FEATURE
COMPUTER HACKING?**

First Movies About Computer Hacking?

1



Hot Millions (1968)

- Starring Peter Ustinov as the hacker.
- A Cockney con-artist just out of prison replaces an insurance company's computer programmer and sends claim checks to himself in various guises at addresses all over Europe.

2



The Italian Job (1969)

- Starring Michael Caine.
- Comic caper movie about a plan to steal a gold shipment from the streets of Turin by creating a traffic jam.

The Italian Job : https://youtu.be/Z0uN32GV1_c

Hot Millions : <https://youtu.be/7pnsxmU1Arn>
<http://www.paranoidprose.com/2011/12/31/the-worlds-first-hacker-movie/>

RESOURCES

[comptia.org/advocacy/policy-issues/cybersecurity](https://www.comptia.org/advocacy/policy-issues/cybersecurity)

The screenshot shows the ComptIA website's advocacy section for cybersecurity. The main content area features a heading 'Cybersecurity' and a paragraph explaining the importance of cybersecurity legislation. Below this, there's a section about a national cybersecurity strategy and links to 'Cybersecurity Committees' and 'Press Releases'. A sidebar on the right contains social media sharing icons, a search bar, and a contact form for 'Randi Parker'.

Cybersecurity has become a greater focus at the state, federal and international levels of government. CompTIA believes that any cybersecurity legislation should preserve the vitality of innovation and promote the sector's ability to respond to constantly evolving cyber threats. To meet this objective, CompTIA and its members are dedicated to maintaining and expanding the partnership between the private sector and the government to address our nation's cybersecurity preparedness.

CompTIA asserts that there be a national cybersecurity strategy that focuses on policy issues including Critical Infrastructure management, Information Sharing, Federal Information Security Management Act (FISMA), Education and Awareness, and International Cybersecurity Issues.

Cybersecurity Committees

FEDERAL

Press Releases

Business Cybersecurity Readiness is a Tale of Two Employee Groups, CompTIA Asserts
Nov 11, 2015

Combat Cybersecurity Risks and Threats with CompTIA CyberSecure™
Oct 29, 2015

ComptIA Participates in NSA Day of Cyber National Initiative

WHAT ARE YOU LOOKING FOR?

I am a...
I want to...

TAKE ME THERE!

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cnet.com/topics/security/

cyberark.com/blog/

www.infosecnews.org/

lifehacker.com/

COMPTIA SECURITY+ CERTIFICATION

<http://certification.comptia.org/certifications/security>



The screenshot shows the CompTIA Security+ certification page. At the top, there's a navigation bar with links for Partners, Contact Us, Help, My Account, and a Store button. Below the navigation is a main menu with links for WHY CERTIFY, CERTIFICATIONS, TRAINING, TESTING, CONTINUING EDUCATION, and GET INVOLVED. A breadcrumb trail indicates the current location: CERTIFICATION > COMPTIA SECURITY+. The main content area features a large blue background with the text "CompTIA Security+" and "EXAM CODE SY0-401". It includes an orange lock icon and various icons representing different IT security concepts like a laptop, cloud, smartphone, and network nodes. Below this, there are five buttons: OVERVIEW, EXAM DETAILS, PREPARATION, RENEWAL, TRY CERTMASTER (disabled), and BUY EXAM. On the left, there's a "Security+" logo and a paragraph describing the certification as a globally trusted validation of foundational, vendor-neutral IT security knowledge and skills. To the right, there are three callout boxes: one about exam-taking, one about benefits, and one about question structure.

<http://certification.comptia.org/certifications/security>

THANK YOU
