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Internet Safe Browsing Awareness to Prevent Cyber Attacks

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Abstract— Preservation of confidentiality, integrity and availability of information in the cyberspace is Cyber Security. It is a complex issue that cuts across multiples domains calls for multidimensional, multilayered initiatives and responses. It is necessarily important to stop cyber crime and raise greater public awareness of the steps of every person. As our nation rapidly building in Cyber-Infrastructure, it is equally important that we educate our population to work properly with this infrastructure. This paper deals with the basic awareness for people who are browsing and some of the solutions to prevent cyber attack and also security to his credentials. Also it tells us the various tools and applications available, to protect individual and their information to ensure confidence in online experience.

Keywords— Keylogger Spyware, 2-step verification, Phishing, Virtual Keyboards, Social sites.

Introduction

Cyber crime is one of the largest illegal industries in the world. It is criminal activity, using computers and the Internet to steal, whether directly or indirectly, from consumers or businesses. Cyber criminals may use computer technology to access personal information, business trade secrets or use the internet for explotive or malicious purposes. Cyber-security is a challenge that extends beyond national boundaries and requires global cooperation with no single group.

Cyber security is the activity of protecting information and information systems (networks, computers, databases, data centers and applications) with appropriate procedural and technological security measures. Firewalls, antivirus software and other technological solutions for safeguarding personal data and computer networks are essential but not sufficient to ensure security.

Awareness is commonly used in reference to public knowledge or understanding of social or political issues.

- Security awareness will help employees to understand how to make workplace more secure.
- It teaches skills to protect yourself and family from cyber crime and identity theft.

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I.Security on social sites

A. Facebook

Facebook privacy shortcuts give you quick access to some of the most widely used privacy settings and tools.

Some of its features are:

• Click at the top right of the page to see shortcuts that help you manage and click on the privacy setting.(Fig:1.1 & 1.2)



Save Profile Info

Hometown



Homelown



Fig: 1.2 Snapshot of Facebook Account settings menu



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- Under those settings we can control whether who can see our stuff and customize it according to our choice.(Fig:1.3)
- Also under security settings there is an option to know if our account is accessed from a new device or computer and get a text message.(Fig:1.4)

General	Privacy Settings and	d Tools		
Security	·····, -·····			
\frown	Who can see my stuff?	Who can see your	future posts?	Friends
Privacy				
Internet one nogging		Review all your po	sts and things you're tagged in	
Blocking		Limit the audience friends or Public?	for posts you've shared with friends o	f
Notifications				
Mobile	Who can contact me?	Who can send you	ı friend requests?	Everyone
Followers		Whose messages	do I want filtered into my Inbox?	Strict Filtering
Apps	Who can look me up?	Who can look y	ou up using the email address or	phone number you provided?
Aus		This applies to per	ople who can't already see your email a	ddress or phone number.
Payments Support Dashboard		Friends		
		Everyone		
		Friends of Friends	search engines to link to your	On
		Friends		

Fig: 1.3 Snapshot of Facebook Privacy settings and tools



Secure browsing (https) is a security feature. When you have secure browsing turned on, they will encrypt your activity on Facebook where possible, making it harder for anyone else to access your Facebook information without your permission.

B. **Twitter**

Use login verification

Login verification is a feature that helps you keep your account more secure. Instead of relying on just a password, login verification introduces a second check to make sure that you and only you can access your Twitter account.

- 1. Click on the gear icon in the upper right and under those select the settings option.(Fig;2.1)
- **2.** Select the security and privacy tab.(Fig:2.2)
- **3.** Under those settings you can select option to send login verification of your account.



Fig: 2.1 Twitter security and privacy tab



Fig:2.2 Twitter security and privacy menu

C. Linkedin

We can select what others see when they view our profile from the Privacy & Settings page. There are three different ways we show information on who's viewed your profile, based on the profile viewer's privacy settings.(Fig:3.1)

- Display viewer's name, headline, location and industry.
- Display only anonymous profile characteristics such as job title, company, school, and industry.



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• Display as an anonymous LinkedIn Member. This reflects members who have viewed your profile and chose to remain anonymous.



Fig: 3.1 LinkedIn Account settings tab



Fig: 3.2 LinkedIn Privacy setting menu

п. Email Accounts

GMAIL

Google has offered a 2-step verification system, which is a bullet proof security thing for GMAIL accounts.(Fig:4.1)



Fig: 4.1 Snapshot of 2-step verification security option

Steps to enable this security option:

- 1. Open the "Account Page" and you will see this option under Personal Settings.
- 2. 2. Click on the "Using 2-step verification" link and it may ask you to enter your Gmail account password.(Fig:4.2)

Personal Settings

Security	Changing your password Recovering your password Using 2-step verification Authorizing applications & sites
Dashboard	View data stored with this account
Email addresses	@gmail.com (Primary email) Edit
Multiple sign-in	Off - <u>Edit</u>

Fig: 4.2 Personal settings in Gmail account

3. After that you will see the 2-step verification setup page. Click the button **"Set up 2-step verification".** (Fig: 4.3)

2-step verification

▲ This is an advanced feature. Review the following information before setting

Using 2-step verification will help prevent strangers from accessing your account your identity using **both** a password and a code that you receive on your phone.

How to set up 2-step verification:

- O Set up your phone. Your phone will receive the verification codes needed to access your account. If you won't have a phone nearby when you sign in, you shouldn't use 2-step verification
- 2 Add backup options in case your phone is unavailable.
- 3 Confirm your settings and turn on 2-step verification.

Afterwards, you'll need to create application-specific passwords. Learn more

Set up 2-step verification Setup takes about 15 minutes.



4. On this Set up your phone page, enter the details and test your phone by clicking on the "Send Code" button. You will receive a code via SMS or automated voice message (depends on your selection). Enter that code in the Code verification box and click "Verify" (Fig:4.4)







Fig:4.4 Option for receiving the code

Enter the code and you can tick mark the box "Remember verification for this computer". In this case, your verification code will be saved for this computer only for 30 days. Click "Verify" and you are now logged in.(Fig: 4.5)



Two-step verification

Enter the verification code generated by your mobile application.

Verify

Enter code:

Remember verification for this computer.

Get a new verification code

Fig: 4.5 Screen for entering the code

m. Protective Measures to be Taken

- It is recommended to type the full URL of bank's website yourself on the web-browser.
- Always go through your mailbox on the Internet Banking webpage after login and read carefully security alerts/messages sent by the Bank.
- User must monitor account activity regularly by checking the balances and statements online.
- Check for padlock icon, a de-facto standard, displayed somewhere on web-browser, representing the site's security certificate (Fig: 5.1)



Fig:5.1 Padlock icon on browser page

• Click on icon to check the security certificate – address on the certificate conforms to the address in the address bar (Fig: 5.2)

Certificate		2 🔀
General Details	Certification Path	
Certifi	ate Information	THAT ASK
This certifical •Ensures	e is intended for the following purpose(s): the identity of a remote computer	- shing email
* Refer to the o	ertification authority's statement for details.	REOFPI
* Refer to the o	ertification authority's statement for details. In netbanking.netpnb.com In www.verisign.com/CP5 Incorp.by Ref. LIABILITY LTD.(c)97 VeriSign	RE OF PH ants RTG

Fig: 5.2 Security certificate on address bar

- User must always check the last log-in in Internet Banking Account and if some unusual activity is noticed immediately contact bank.
- Mobile number should be register for SMS Alerts, for Internet Banking Transactions through ATM/Branches, for receiving alerts for specific transactions in your account.

IV. Protective Measures to be Taken

1. Get to your favourite social media sites by typing in the exact address into your browser.

For eg: a site with extension ".com" is very different from other site with the same domain name but different extension that is ".in"(Fig: 6.1)



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Fig: 6.3 Email link on gmail account



Hippo.com



Hippo.in	
Spansand Rosalteler -	Seath 64
All New Indictimes Extentiament, Javyler, Sports Read Experts Opinion & Stare Yours indomesican	Top Searches Highway Semission
Free Online Classifieds Advantas (nor Pondert no Carvies 107% Free No. Sign op Darywood Quic common carvings)	Bridge Design LandDevelopment Housea Poincts
Want to Buy a New Car? Top Indian car websie. One of the ultimatic new/used car distinctions.	Insue Occlosules

Fig: 6.2 Snapshot of site with extension ".in"

2. Never go in through an email link or via another website to reach it because it could be a trap to get your account name and password.(Fig: 6.3)

It's not uncommon for a unsuspecting employee to click on a link or download an attachment that they believe is harmless -only to discover they've been infected with a nasty virus, or worse. As such, never click on a link that you weren't expecting or you don't know the origination of in an e-mail. You have to "be smart when surfing the Web, should take every "warning box" that appears on screen seriously and understand that every new piece of software comes with its own set of security vulnerabilities.



When visiting a site, and logging in, look for the padlock icon. This is an indication that the site is authenticated and encrypted, protected by means of Transport Layer Security

v. Keylogger Spyware Attack

A keylogger is a software program designed to secretly monitor and log all keystrokes. A kelogger spyware is a combined script attack, contains both scripts keylogger and spyware in a single program. A keylogger which captures all keystrokes in a log file and other is spyware which emails this to hacker's specified address. Many keylogger hide themselves in a system. Unlike mailicious program, keylogger present no threat to system. they can be used to intercept passwords or confidential information entered through keyboard.

They can be divided into two categories:

- KEYLOGGING DEVICES:small devices that can be fixed to the keyboard or placed within cables.
- KEYLOGGING SOFTWARE:dedicated programs designed to track and log keystrokes.

HOW TO KNOW IF WE HAVE A KEYLOGGER:

- Monitor the behaviour of PC: Slow computer performance, new icons on desktop, unexpected popups adds to these symptoms. Also you can notice that the text that you type can appear with little delay – this is the direct symptom that will help you in keystroke logger detection.
- Verify process threads:Computer keep records of all our running threads.

To view our running thread:

1.Press CTRL+ALT+DELETE, and then select Task Manager in the menu.

2.Select Processes tab, scroll the list. Find the process that is called winlogon.exe. One process with such a name is a normal thing, but if you have 2 processes with the same name, then you have a Keylogger.

3.Highlight the second winlogon.exe and click End process (you should end only the second process with such a name)(Fig: 7.1)



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pplications Proces	ses Scrvice	s Perf	formance Ne	twoiking Users
Image Name	Jser Nane	CPU	Memory (Description
CSISS.exe				
winlogon.exe		00	64) K	
plugin contention	(and ba	00	4 055 K	Their Contribution for the
taskingr, exe	/anita	02	2,004 K	Windows Task Manager
firefox.exe	/anita	23	3,82,058 K	Firefox
PDVDSorv.exe	/anita	00	201 K	PowerDVDRC Service
mspaint.exe	/anita	00	39,384 K	Fant
jusched.exe	/anita	00	558 K	Java(TM) Update Sche
ApplicationSer	/anita	00	4,184 K	Application Layer Service
msseces.exe	/anita	00	903 K	Microsoft Security Clien
taskhost.exe	/anita	00	3,235 K	Hast Process for Windo
ccSvelist.exe	/anita	00	1,150 K	Symantec Service Fram
PCSulte, exe	/arita	00	3,048 K	Nokia Laurch Application
dvm.exe	/anita	01	14,300 K	Desktop Window Manager
WINWORD, EXE	/anita	00	35,164 K	Microsoft Office Word
Show process	er from al us	are		End Process

Fig: 7.1 Windows task manager Screen

• You can also detect this malicious program with the help of **Startup** list. So, you should follow the instructions:

1.Press **Windows+R** buttons, then type **'msconfig'** in the line and press Enter.

2.Select **Startup** tab and disable all the **unknown programs.**

3.Then restart your computer.

Startup Item	Manufacturer	Command	Location	Date Disabled
Java(TM) Pl	Sun Microsyste	C:\Program Fil	HKLM\SOFTWARE\M	
Microsoft Se	Microsoft Corp	"C:\Program Fil	HKLM\SOFTWARE\M	
PC Suite	Nokia	"C:\Program Fil	HKCU\SOFTWARE\	
Windows Liv	Microsoft Corporat	ion Program Fil	HKCU\SOFTWARE\	
LightScribe	Hewlett-Packar	C: Program Fil	HKCU\SOFTWARE\	
HP Advisor	Hewlett-Packard	C:\Program Fil	HKCU\SOFTWARE\	
Application S	App Services	C:\ProgramDat	HKCU\SOFTWARE\	
AutoBackup	Google Inc.	"C:\Users\Vani	HKCU\SOFTWARE\	
Microsoft Of	Microsoft Corp	C:\PROGRA~1	C:\Users\Vanita\Ap	=
Bluetooth So	Broadcom Corp	C:\PROGRA~1	C:\ProgramData\Mic	-
Microsoft Of	Manager Corport	C. PROGRAMI	C. Programbato y	
WinampAgent	Unknown	C:\Program Fil	HKLM\SOFTWARE\M	21-10-2013 15
Microsoft Of WinampAgent	Unknown	C: \Program Fil	C. (FrogramBate)	21-10-2013 15

Fig: 7.2 System configuration settings

• Check the list of installed programs for anything unfamiliar or suspicious(Fig: 7.2)

• Perform visual check on computer's hardware,keylogger be a piece of hardware attached to computer

VI. PHISING ATTACK

A phishing attack involves use of web site that has been set up by criminals to look like websites of well known organization. When internet fraudsters impersonate a business to trick us into giving our personal information.

- **Phishing email**: The attacker sends a spam email to thousands of email addresses pretending to be from a legitimate organization. The email is worded to persuade the user to click on a link in the email. If the user clicks on the link, the user's computer will connect to the phishing web site.
- **Phishing web site**: The phishing web site is created to capture any fields completed by the user (such as username and passwords). If the user completes these fields the information will be captured by the attacker.

A. How to Protect:

The best way to avoid becoming a victim of a phishing attack is to detect and/or block the phishing email.

- Use a spam filter to block spam email. By blocking and filtering spam email, users are less likely to read, trust or click on a link in a phishing email.
- Change settings on your email software to warn you when you receive a suspicious email that may be a phishing email.

For eg:

1.In Microsoft Internet Explorer version 7, the phishing filter can be turned on by selecting "Tools" menu, then "Internet Options", then select "Turn on automatic website checking"(Fig: 8.1)





Fig: 8.1 Microsoft Internet Explorer tools menu

2.Click "Apply" then "OK" to save these settings.

3.In Microsoft Internet Explorer version 8, anti-phishing is handled by the SmartScreen Filter. The SmartScreen Filter is enabled by default - you can confirm that it is enabled by selecting the "Safety" menu, then "SmartScreen Filter".(Fig:8.2)



Fig: 8.2 Smart Screen Filter on Microsoft Internet Explorer

• In Mozilla Firefox, click on Tools menu, select Options, select the Security tab then select the check box for "Tell me if the site i'm visiting is a suspected forgery". Either option is fine, however, according to the Mozilla Firefox help notes, the Google option will provide a more reliable check for you.(fig: 8.3) Publication Date : 30 September, 2014



Fig: 8.3 Mozilla Firefoz tools menu

Google Olyame Options	-
arics Personal Stuff Under the Hood	
Hetwork	1
Set up a proxy to connect to the network.	
Change proxy settings	
Privacy	1
Google Oxome may use web services to improve your browsing experience - your may optionally disable these services.	
Learn more	U
Show suggestions for nanigation errors	
$\overline{\mathbb{Z}}$. Use a suggestion service to help complete searches and URLs typed in the address bar	
Use DNS pre-fetching to improve page load performance	
Enable phishing and malware protection	
Help make Google Chrome better by automatically sending usagestatistics and crash reports to Google	
Cookie settings	
Reset to Sefeul	13
Os	

Fig: 8.4 Google Chrome customise settings

• In the Google Chrome web browser, phishing and malware protection is enabled by default. Confirm this by selecting the menu with a spanner icon (rolling over this menu will display the text "Customize and control Google Chrome") and then "Options".(fig: 8.4)

B. Typical Steps of a Phishing Attack

In most phishing attacks, the user opens an email, and then clicks on a link in that email. This results in the user's browser getting exploited. Maybe there is also a form on the web page



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that captures the users credentials as they are typed in. Alternately, the user could open an email attachment and their machine gets compromised that way.

How does phishing email message look like? Here is an example of what a phishing scam in an email message might look like.(Fig.8.5)

> Heliol As part of our security measures, we regularly screen activity in the Facebook system. We recently contacted you after noticing an issue on your account.



Our system actected unusual Copyrights activity linked to your facebook account, please follow the link bellow to fill the Copyright Lawform:

http://www.ficebook.com/appication_form Links in email

Note: If you cont fill the application your account will be permanently blocked. Threats Regards.

Facebook Copyrights Department, Popular company

Fig: 8.5 [11] View of phishing email message

- Spelling and bad grammar. Cyber criminals are known for their grammar and spelling.
- Beware of links in email. If you see a link in a suspicious email message, don't click on it. Rest your mouse (but don't click) on the link to see if the address matches the link that was typed in the message. In the example below the link reveals the real web address, as shown in the box with the yellow background. The string of cryptic numbers looks nothing like the company's web address.(Fig: 8.6)

https://www.wood	grovebank.com/loginscript/user2.jsp
	http://192.168.255.205/wood/index.htm

Fig: 8.6 [11] Masked email link

- Links might also lead you to .exe files. These kinds of file are known to spread malicious software.
- Another common technique that has been used is a URL that at first glance is the name of a wellknown company but on closer scrutiny is slightly altered. For example, www.microsoft.com could appear instead as:

www.mircosofl.com

We kindly ask you to follow the reference given below to confirm your data, otherwise your access to the sytem may be blocked. (^h)

Fig: 8.7 [10] Detection of a fake email

- Message body is an image To avoid detection by spam filters, fake e-mail messages used in phishing schemes often use an image instead of text in the message body. If the sent spam message uses real text, the Outlook Junk E-mail Filter will very likely move the message to the Junk E-mail folder. The message body image is usually a hyperlink. You can tell because when you rest the pointer on the message body, the pointer becomes a hand.(fig:8.7) When you open the e-mail message the images are downloaded and information is passed back to the server. This information is used to verify that your e-mail address is valid and so you might be spammed again.
- **Threats.** Have you ever received a threat that your account would be closed if you didn't respond to an email message? The email message shown above is an example of the same trick. Cyber criminals often use threats that your security has been compromised.

c. Virtual Keyboard

Virtual keyboards(fig:9.1) are commonly used as an onscreen input method in devices with no physical keyboard, where there is no room for one, such as a pocket computer, personal digital assistant(PDA), tablet computer or touch screen equipped mobile phone. It is common for the user to input text by tapping a virtual keyboard built into the operating system of the device. Virtual keyboards are also used as features of emulation software for systems that have fewer buttons than a computer keyboard would have. Virtual keyboards can be categorized by the following aspects:

• Physical keyboards with distinct keys comprising electronically changeable displays integrated in the keypads



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- Virtual keyboards with touch screen keyboard layouts or sensing areas.
- Optically detected human hand and finger motions
- Virtual keyboards to allow input from a variety of input devices, such as a computer mouse, switch or other assistive technology device.(Fig: 9.1)





InPrivate is turned on

When InPrivate Browsing is turned on, you will see this indicator

|--|

InPrivate Browsing helps prevent Internet Explorer from storing data about your browsing session. This includes cookies, temporary Internet files,

history, and other data. Toolbars and extensions are disabled by default. Fig: 9.2 Privacy Mode on Internet Explorer

Privacy Mode: Web browsers store information such as browsing history, images, videos and text within cache. In contrast, privacy mode can be enabled so that the browser does not store this information for selected browsing sessions.(fig: 9.2).

Give a fake password:

- If you are not sure if a site is authentic, don't use your real password to sign in. If you enter a fake password and appear to be signed in, you're likely on a phishing site
- Do not enter any more information. Close your browser.

Security Awareness Training:

Security awareness training helps you educate people to stop risky activities such as clicking on a link in a questionable email, opening an attachment they are not expecting, or submitting something on a bogus forum.

We can achieve this by:

1. Don't trust links in an email

2. Never give out personal information upon email request 3.Look carefully at the web address; it could be a close approximation of the real URL

4. Type the real website address into a web browser.

5.Don't call company phone numbers listed in emails or instant messages; check a reliable source such as a phone book or credit card statement

6.Don't open unexpected attachments or instant message

7. Be suspicious if emails says "do X or something bad will happen"

8.Be suspicious of any email with urgent requests for personal financial information

9.Always ensure that you're using a secure website when submitting credit card or other sensitive information via your web browser; look for the https:// and/or the security lock icon.

10.Regularly log into your online accounts and check your bank, credit and debit card statements to ensure that all transactions are legitimate.

11.Enable two-factor authentication whenever possible. This combines something the user knows (such as a password or PIN) with something the user has (such as a smart card or token) or even something the user is (such as a biometric characteristic like a fingerprint).

12. Keep your operating system updated, ensure that your browser is up to date and security patches are applied

13. Always report "phishing" or "spoofed" e-mails to your IT department

Report phishing scams.**If you receive a fake phone call, take down the caller's information and report it to your local authorities. You can use Microsoft tools to report a suspected scam on the web or in email.**

- Internet Explorer. While you are on a suspicious site, click the gear icon and then point to **Safety**. Then click **Report Unsafe Website** and use the web page that is displayed to report the website.
- Outlook.com (formerly <u>Hotmail</u>). If you receive a suspicious email message that asks for personal information, click the check box next to the message in your Outlook inbox. Click the arrow next to Junk and then point to Phishing scam.



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 Microsoft Office Outlook 2010 and 2013. Right-click the suspicious message, point to Junk, and then click Report Junk.

vii. Conclusion

With the advancement in technology there is increasing need of internet and its facilities, at the same time hackers are also becoming equally equipped. The growth of cyber crime all over the world is on the rise and to curb its scope and complexity is the pertinent need today. It is not possible to eliminate the cyber crime completely from the cyberspace, but it is possible to check them and this is possible only with the help of awareness about the various security threats. In this paper we presented the various security options available on the internet and also some of the methods to check if our system is not vulnerable to threats. There are several aspects of security which are covered and needs immediate attention but still there are numerous options available.

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- [15] http://antikeyloggers.com/how-to-detect-keyloggers
- [16] http://feeds.howstuffworks.com/DailyStuff
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- [18] http://howto.caspio.com/xmlrpc.php
- [19] http://office.microsoft.com/favicon.ico
- [20] http://www.microsoft.com/security/default.aspx

