

Vasantdada Patil pratishthan's

Guruvarya Sadananda Maharaj Arts and
commerce College,

Kondhwa budruk Pune -411048



Academic year 2023-24

M.COM-II

INTRODUCTION TO CYBER SECURITY

PRESENTATION ON CYBER SECURITY

Presented by : ROHAN JARAD



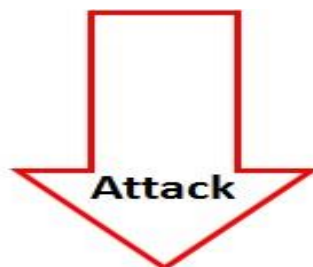
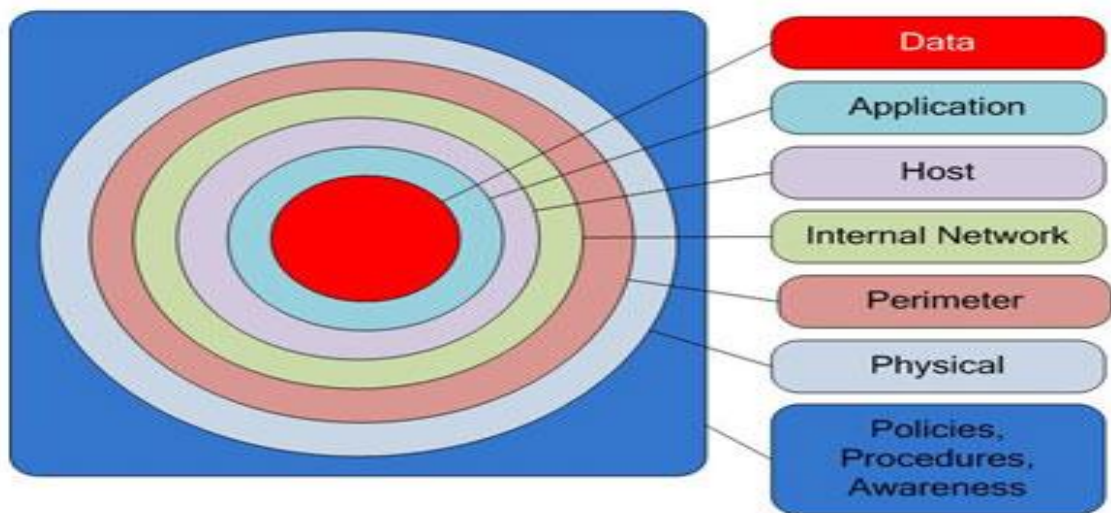
shutterstock.com · 2510584693

Best Practices and Steps to Counter Cyber Security Attacks

What is cyber security ?

Cybersecurity is the practice of protecting systems, networks, and programs from digital attacks. These cyberattacks are usually aimed at accessing, changing, or destroying sensitive information; extorting money from users through ransomware; or interrupting normal business processes.

Defense in Depth Layers



Hardware Broadband Router/Firewall

OS / Software Firewall

Antivirus / Antimalware

Security Patches

Vista UAC

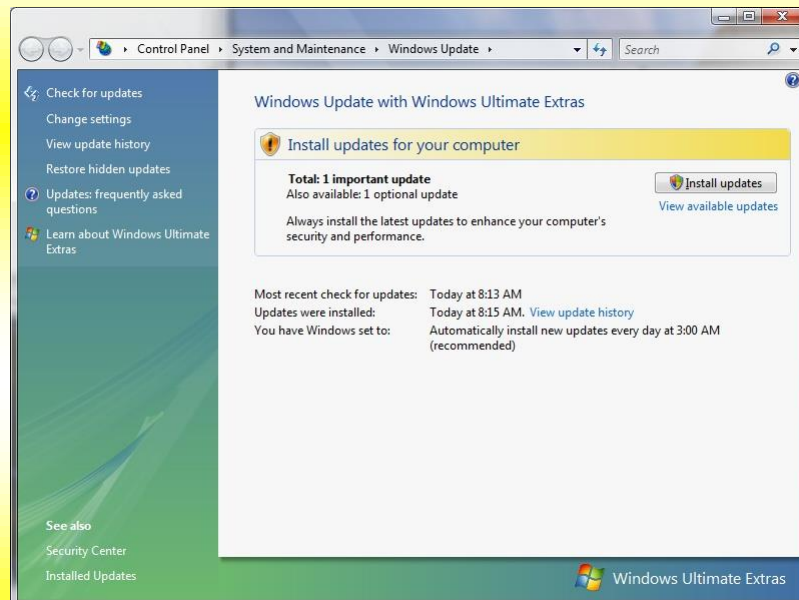
Anti-virus and Anti-spyware Software

- Anti-virus software detects certain types of malware and can destroy it before any damage is done.
- Install and maintain anti-virus and anti-spyware software.
- Be sure to keep anti-virus software updated.
- Many free and commercial options exist.
- Contact your Technology Support Professional for assistance.



Protect your Operating System

- Microsoft regularly issues patches or updates to solve security problems in their software. If these are not applied, it leaves your computer vulnerable to hackers.
- The Windows Update feature built into Windows can be set up to automatically download and install updates.
- Avoid logging in as administrator
- Apple provides regular updates to its operating system and software applications.
- Apply Apple updates using the App Store application.



Use Strong Passwords

Make passwords easy to remember but hard to guess

- USG standards:
- Be at least ten characters in length
- Must contain characters from at least two of the following four types of characters:
 - English upper case (A-Z)
 - English lower case (a-z)
 - Numbers (0-9)
 - Non-alphanumeric special characters (\$, !, %, ^, ...)
- Must not contain the user's name or part of the user's name
- Must not contain easily accessible or guessable personal information about the user or user's family, such as birthdays, children's names, addresses, etc.

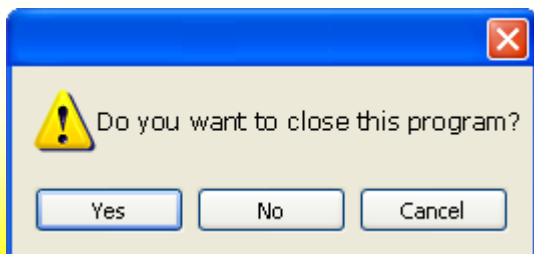
Avoid Social Engineering and Malicious Software

- Do not open email attachments unless you are expecting the email with the attachment and you trust the sender.
- Do not click on links in emails unless you are absolutely sure of their validity.
- Only visit and/or download software from web pages you trust.

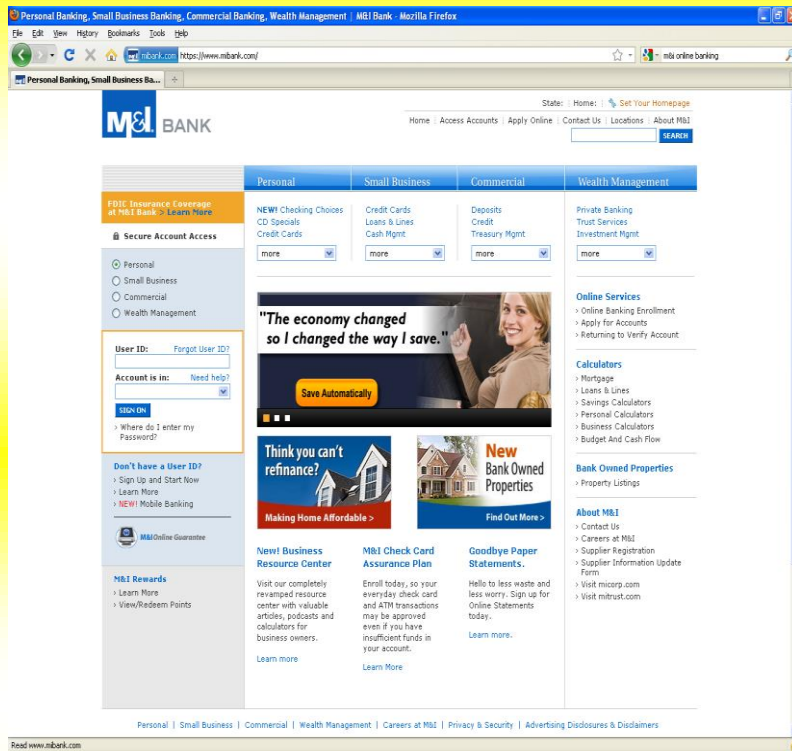


Avoid Hacker Tricks

- ⦿ Be sure to have a good firewall or pop-up blocker installed.
 - ⦿ Pop-up blockers do not always block ALL pop-ups so always close a pop-up window using the 'X' in the upper corner.
 - ⦿ Never click “yes,” “accept” or even “cancel.”
-
- ⦿ Infected USB drives are often left unattended by hackers in public places.



Secure Business Transactions



https://
/

Symbol indicating
enhanced security



Backup Important Information

- ⦿ No security measure is 100% reliable.
- ⦿ Even the best hardware fails.
- ⦿ What information is important to you?
- ⦿ Is your backup:

Recent?

Off-site & Secure?

Process Documented?

Encrypted?

Tested?

conclusion

Therefore, robust cybersecurity is about more than just implementing high-end technological solutions. It also involves human diligence in maintaining password hygiene, staying updated on the latest threats, and adhering to best practices in cyber hygiene.