

# EMAIL HACKING & SECURITY

# What is an Attack

- An attack is an act that takes place at a controlled system to destroy or damage the secured information or controlled system.
- It is completed by using a threat agent which damage or steal the information

# E-MAIL HACKING TECHNIQUES

- Phishing
- Keyloggers
- Trojans
- Social Engineering
- Sniffing
- Vulnerabilities

# PHISHING

- Phishing is a old and ever green attacking method to steal confidential information
- With this attack an attacker creates a page that looks like a original page, and make us to believe it is genuine.



# One account. All of Google.

Sign in to continue to Gmail



Next

[Find my account](#)

[Create account](#)

One Google Account for everything Google

# Difference between original page and Fake page

- Protocol
- SSL
- Correct domain name

# How to create a fake page

- Create a page using “super phisher” tool.
- Host on live server
- Send that link to victims

# Keylogger

- Keylogger is a software
- It records each and every keystroke you enter including mouse click



# Types of Keyloggers

- Hardware Keylogger
- Software Keylogger

# Hardware Keylogger

- This is a thumb size device
- It records all the keystrokes you enter from the keyboard then saves it in memory
- Drawback of this device is it can't records mouse clicks, screenshots and emails



# Software Keylogger

- Software key loggers can be undetectable by the antivirus.
- Software keyloggers has following features
  1. Undetectable by Antivirus
  2. Remote Installation
  3. Stealth mode

# Available software Keyloggers

- Blazing tools perfect key loggers
- Ardamax keylogger
- Winspy
- Invisible keylogger
- Refog keylogger
- Activity Keylogger
- Keystroke keylogger

# How to Install Keylogger

1. Install keylogger
2. Now invite your pal to check mail
3. In the task bar tray there will be a perfect key logger icon right click on it and go to view the log
4. Here you can see the username and password I entered

# How fool a keylogger

- For Hardware keylogger use online screen keyboards
- Enter unnecessary keys along with the original key

# SOCIAL ENGINEERING

- Social engineering is a technique we use brain rather than tools
- We obtain information from victims ignorance or lack of knowledge
- Set the strong password



# Types of Passwords

1. Confidential password
2. Financial password
3. Useless password
4. Average password
5. Normal password

Note – password recovery always keep wrong

# How the password should not be

- Password should not be your personal information
- Password should not be your family members, friends, lover's, god's any phone numbers
- Password should not be like 12345,abc, admin

# How the password should be

- Minimum of 8 characters
- Combination of capital letters, small letters, numbers and special symbols

EX- Jeevan@1906

# TROJANS

- Trojan is another hacking tool
- Complete unauthorized access of remote computers is possible by Trojans
- After successful installation of trojans attacker can operate victims webcam without his permission

# How to attack a system by using “ProRat”

1. Create a server file from ProRat client
2. Execute server.exe
3. Open ProRat client in your computer enter victim IP/system name to connect
4. Now it is up to you, you can select any option in victim system

# Counter measures for trojans

- Firewalls
- TCP for manual checkup

Note - Binders are used to hide the Trojans behind any applications

# SNIFFERS

- Sniffers are the tools which extract packets which are travelling through network
- Wireshark is open source and free sniffer  
[www.wireshark.org](http://www.wireshark.org)

# How to install Sniffers

1. Download and install Wireshark
2. Select interface you desired to capture packets from capture menu
3. Select interface
4. Packets in your network will be displayed with complete information



# VULNERABILITIES

- Vulnerabilities means loophole existing in application
- On 2012 millions of linkedin account passwords are dumped in pastebin.com
- 2012 hackers discovered bug in hotmail, announced 5\$ for password reset

# e-mail spoofing

- We can send mails from any one email ID without knowing their password.

Some fake e-mail service provider

<http://emkei.cz>

<http://anonymailer.net>

<http://deadfake.com/send.aspx>

Detecting fake emails or senders IP address

# CHECK WETHER YOUR EMAIL IS HACKER OR NOT

Check the following points for email logs

1. Click on inbox and scroll down
2. You see a link with details click it
3. It shows all the details like IP of last login, time and place
4. Any thing is suspicious change password

# SOME TIPS TO PROTECT YOUR MAIL

- Check your send mails
- Don't enter your passwords in public places
- Check for keyloggers before entering password
- Turn on two way verification