

# Key Stroke Loggers



**Hardware, Software, Prevention**

# Objectives

- Define Key logger
- Hardware Examples
- Software Examples
- Prevention

# What is Keylogging?



## Keystroke logging

- A program or hardware device that captures every key depression on the computer
- Used to monitor employee performance
- Used to steal private information

# Malicious Uses...



Besides being used for legitimate purposes, keyloggers can be hardware installed to a computer or software that is used to collect sensitive information.

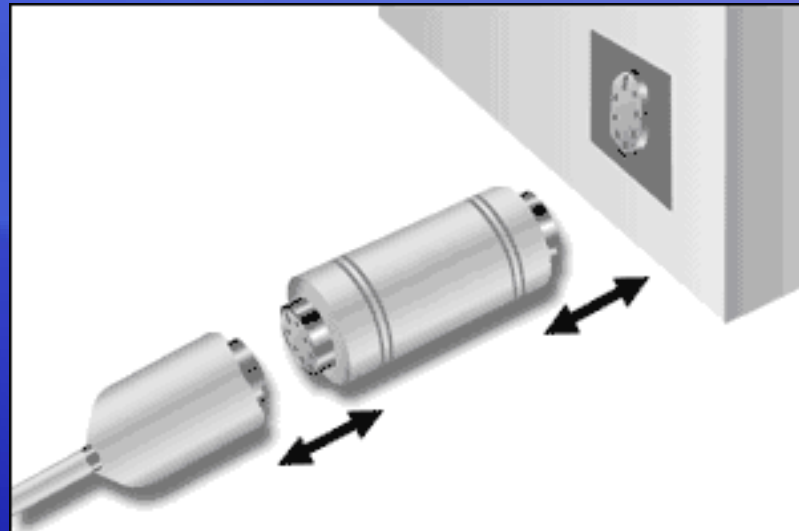
The types of sensitive information include:

- Usernames & Passwords
- Credit Card Numbers
- Person Information such as Name, Address, etc.

# Keylogging Hardware



These small devices connect directly on the end of a keyboard to the port on the computer and look rather unassuming.



# Keylogging Hardware



At a later time the person who installed the keylogger can come back to retrieve it. They are easily removed.



# Software...



There are hundreds of key logger programs available over the internet for download.

There are three ways for an attacker to install the software on an unsuspecting computer.

1. Install it from a compact disc or floppy disk.
2. Package the software as a computer virus or Trojan horse.
3. Gain access to the computer over a network and install surveillance software remotely.

# Viruses...

A simple search of a virus encyclopedia shows 500 examples of key logging spyware.



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Threats  
Virus Encyclopedia

## Virus Encyclopedia Search Results

<< [Search Again](#)

**1 - 10 of 500 record(s) match your query**

**TROJ\_PERF.1**  
Aliases: No Alias Found  
...of a **keylogger** program. Upon execution, this Trojan checks for the presence of certain files in the folder where it is executed. If it does not find the s...

**TROJ\_KEYLOGGER.A**  
Aliases: **keylogger**.Trojan, PWS-LegMir.gen, TrojanSpy:Win32/**keylogger**.AO, Win32.Ypsi.B  
...is a **keylogger**. Upon execution, it drops any of several copies of itself. It also creates registry entries that ensure its automatic execution at every Windows sta...

**TROJ\_KEYLOGF.DR**  
Aliases: TrojanSpy.Win32.Delf.S  
...for a **keylogger** program detected as TROJ\_KEYLOGF.A. It drops the **keylogger** files into the user Temp folder and...

**TROJ\_DELF.NE**  
Aliases: No Alias Found  
...file of TROJ\_**keylogger**.X. It is usually dropped into the Windows folder using any of the following f...

**TROJ\_KEYLOGGER.X**  
Aliases: Trojan.Dropper, Win32.Paslin.A  
Upon execution, this Trojan drops the following copies of itself in the Windows folder: Inertinfo.exe Interinfo.exe It also drops another malware ...

**TROJ\_SMALL.YW**  
Aliases: No Alias Found



# Prevention...



There are several ways to prevent Key loggers:

- Anti-Virus/Spyware & Firewalls
- Automatic Form Fillers
- Alternative Keyboard Layouts
- Onscreen Keyboards

# Anti-Virus/Spyware & Firewalls



As with any Virus or Spyware you should make sure that you have up-to-date protection.

## Anti-Virus:

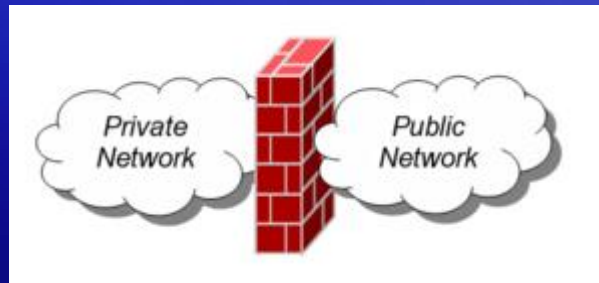
Make sure its running and using the latest virus definitions.

## Anti-Spyware:

Same as your Anti-Virus Software, update regularly.

## Firewall:

Make sure its active. It's the first line of defense from online intrusions.



# AutoForm Fillers...



- A common feature of Web Browsers including Internet Explorer and Firefox.
- Works against key loggers but vulnerable to other security breaches.



# Alternative Keyboard Layout...



- Alternative keyboards make captured keystrokes look like nonsense
- You can customize your own board with Microsoft Keyboard Layout Creator



# On Screen Keyboards



Software based keyboards are not very effective.

Clicks are converted back to keystrokes.



# On Screen Keyboards

Web-based Keyboards offer more protection and are often found in online games.



# Summary



Key Loggers record keystrokes:

- Legitimate use: Monitor employee productivity
- Illegal uses: Steal passwords, usernames, and other personal/corporate data

There are ways to protect yourself:

- Be aware of what's installed on your computer
- Use caution when surfing the internet
- Keep your computer's security software updated



Any Question

