

A decorative sidebar on the left side of the slide. It features a dark blue background with a purple circular graphic at the top containing a hand typing on a keyboard. Below this is a bar chart with five teal bars of decreasing height. At the bottom, there is a close-up of a computer keyboard with keys like 'L', 'O', 'P', and 'V' visible.

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:

Username & Passwords

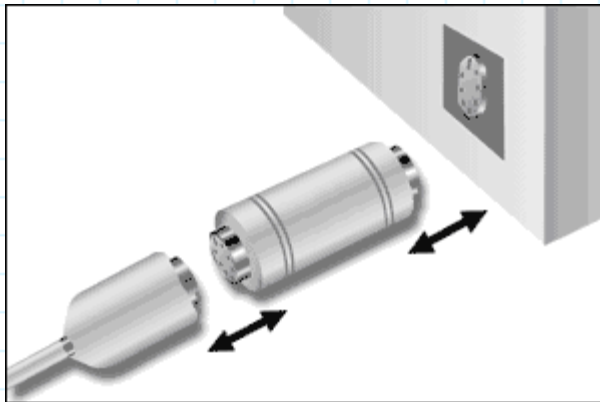
Credit Card Numbers

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.

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



Source:
http://epic.org/privacy/dv/keylogger_hw.gif



Software...

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

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

Install it from a compact disc or floppy disk.

Package the software as a computer virus or trojan horse.

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 keylogging malware.



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Threats
Virus Encyclopedia

Virus Encyclopedia Search Results

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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 Keyloggers:

- Anti-Virus/Spyware & Firewalls

- Automatic Form Fillers

- Alternative Keyboard Layouts

- On screen 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.

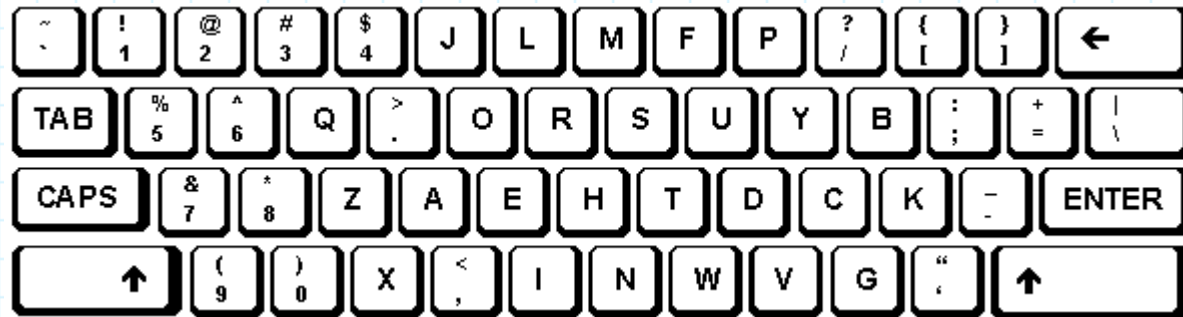
Works against keyloggers but vulnerable to other security breaches.



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