Definition Of Keyloggers

A keylogger or keystroke logger/keyboard capturing is a form of **malware** or hardware that keeps track of and records your keystrokes as you type. It takes the information and sends it to a hacker using a **command-and-control (C&C) server**. The hacker then analyzes the keystrokes to locate usernames and passwords and uses them to hack into otherwise secure systems.

Types Of Keyloggers

A software keylogger is a form of malware that infects your device and, if programmed to do so, can spread to other devices the computer comes in contact with. While a hardware keylogger cannot spread from one device to another, like a software keylogger, it transmits information to the hacker or hacking organization, which they will then use to compromise your computer, network, or anything else that requires authentication to access.

Software keyloggers

Software keyloggers consist of applications that have to be installed on a computer to steal keystroke data. They are the most common method hackers use to access a user’s keystrokes.

A software keylogger is put on a computer when the user downloads an infected application. Once installed, the keylogger monitors the keystrokes on the operating system you are using, checking the paths each keystroke goes through. In this way, a software keylogger can keep track of your keystrokes and record each one.

After the keystrokes have been recorded, they are then automatically transferred to the hacker that set up the keylogger. This is done using a remote server that both the keylogger software and the hacker are connected to. The hacker retrieves the data gathered by the keylogger and then uses it to figure out the unsuspecting user’s passwords.

The passwords stolen using the key logger may include email accounts, bank or investment accounts, or those that the target uses to access websites where their personal information can be seen. Therefore, the hacker's end goal may not be to get into the account for which the password is used. Rather, gaining access to one or more accounts may pave the way for the theft of other data.

Hardware keyloggers

A hardware keylogger works much like its software counterpart. The biggest difference is hardware keyloggers have to be physically connected to the target computer to record the user's keystrokes. For this reason, it is important for an organization to carefully monitor who has access to the network and the devices connected to it.