

Chapter-#08

Anti-Key logger

Anti-Key logger

► What is Key Logger?

- Key Logger is a basic software that is designed by the developers to capture or track the keystrokes entered by any user on his system. It is a very useful and harmless system, but sometimes it can be very dangerous for the user and its system. If any hacker or cyber security attacker gets the key Logger, then he can get every information of the user from the system. He can hack all the personal, confidential, and security-related information from the system and misuse it. Attackers can track any sensitive information in the system using key Logger.

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- ▶ **What is Anti-Key Logger?**
- ▶ Anti-key Logger is a tool that is present in the system and used to identify whether the key logger is present in the system or not. It also has the functionality to prevent and terminate any activity started by the key Logger. Basically, it stops the key logger from tracking or capturing any information from the system and restricts the key Logger. So, with the help of anti-key Logger, we can save the confidential information and sensitive data of the user from a cyber security attack. It is used by many companies to protect their data from a cyber security attack.

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- ▶ There are multiple functions present in the Anti-Key Logger, which are as follows:
- ▶ **1. Signature-based Detection**
- ▶ If there are any files present in the system which has a key logger, then it tracks those files and considers them as a threat to the system. It also describes the details of what can be threats from these files from the system. There is no perfect system, and every system has its own limitations. The limitation of this function is that it can identify only those key loggers which are standard and listed. So, if there is any key Logger present in the system which is not listed, then this function cannot detect the key Logger and is unable to protect the system.
- ▶ **2. Behavioural Detection**
- ▶ This contains some properties and functionalities of the key logger so that they can identify them in a system very easily. It is also called a heuristic. If any key logger tries to get the access to the system and keyboard, then this will prevent that key Logger by identifying it. It terminates the key Logger to record or capture the characters entered by the user.

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► Advantages of the Anti-key Logger

- It helps to manage the activities of any key Logger present in the system.
- If it identifies any key logger, then it prevents its activity from saving the confidential information.
- It is not able to identify the types of keystrokes, which means it is not able to differentiate between the legal keystroke program and the illegal keystroke program.
- It is used by many companies and especially in public computers, to stop the key Logger activities.
- It supports current and future cyber security threats.
- Some anti-key loggers provide no delay while typing.
- Easily integrate with C++ libraries.

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► Disadvantages of Anti-key Logger

- It is not able to differentiate between a legal keystroke program and an illegal keystroke program, so sometimes keystrokes are necessary, but it identifies it as a threat and prevents its activity.

► Usage of Anti key Loggers

► 1. Gaming Usage

- Key Loggers are used in the system to steal the information about the online gaming industry. Whenever any gamer plays online games and signs in to the game, they track the username and password and misuse it. They change their password and steal all the data. World of War craft game is one of the examples where game attackers use the key loggers to steal the user id and password.
- So here, we can use the Anti KeyLogger to save the data.

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▶ 2. Financial Institutions

▶ One of the biggest targets of the key loggers is financial softwares where the user's financial details, like credit card number or password, are saved. Anti Key Loggers continuously scan the softwares or system to check the activity of any key logger. These are used in those systems which are based on less security or they do not use the on-screen keyboard.

▶ 3. Public Computers

▶ In public computers, it is very easy to install the software or hardware key logger within a few minutes because it is very easy to access. So anti, key loggers helps to prevent the key loggers in public computers.

▶ Some of the anti-Key Logger softwares are:

▶ Zemana Anti Logger

▶ Ghost press

▶ Spy Shelter free

▶ KL detector

▶ McAfee Root kit detector