

# Understanding Keylogger Techniques

**Name:meghana Lalam**

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# Introduction to Keyloggers

- What is a Keylogger?
- - Definition: A keylogger is a type of surveillance software that records keystrokes made by a user.
- - Purpose: Typically used to steal sensitive information like passwords and personal data.

# Types of Keyloggers

- Hardware Keyloggers
  - - Examples: Keyboard overlays, USB keyloggers.
  - - Characteristics: Physically attached to a computer.
- Software Keyloggers
  - - Examples: Application keyloggers, Kernel-based keyloggers, API-based keyloggers.
  - - Characteristics: Installed on the computer's

# How Keyloggers Work

- Basic Mechanism
  - - Monitoring and logging keystrokes.
  - - Data transmission to the attacker.
- Methods of Operation
  - - Capturing keyboard strokes via software.
  - - Intercepting input at the kernel level.

# Installation Methods

- Social Engineering Techniques
  - - Phishing emails, malicious downloads.
- Physical Access
  - - Direct installation of hardware keyloggers.
- Malware and Exploits
  - - Using other malware to deploy keyloggers.

# Detection of Keyloggers

- Symptoms of a Keylogger Infection
  - - Slow system performance.
  - - Unusual network activity.
- Detection Tools and Techniques
  - - Anti-malware software.
  - - Regular system scans and monitoring.

# Prevention Strategies

- Best Practices
  - - Using up-to-date anti-virus and anti-malware software.
  - - Regular software updates and patches.
- Physical Security
  - - Ensuring physical access control to devices.
- Behavioral Measures

# Legal and Ethical Implications

- Legality
  - - Laws surrounding the use of keyloggers vary by jurisdiction.
- Ethical Considerations
  - - Consent and privacy concerns.
  - - Legitimate uses in parental control or corporate monitoring.



# Case Studies

- Real-world Examples
  - - Notable incidents of keylogger attacks.
  - - Impact and aftermath.

# Summary and Conclusion

- Recap of Key Points
  - - Definition and types of keyloggers.
  - - How they work and how they are installed.
  - - Detection and prevention methods.
- Final Thoughts
  - - Importance of awareness and proactive security measures.

# Questions and Discussion

- Invite Questions
  - - Open the floor for audience questions.
- Discussion Points
  - - Engage the audience in a discussion on keylogger-related experiences or concerns.

# References

- List any references or resources used to compile the presentation.