

## 1. Computer Forensics in Today's World

### 1. Computer Forensics in Today's World Part 1

#### a. Computer forensics

i. A set of methodological procedures and techniques that help identify, gather, preserve, extract, interpret, document, and preserve evidence from computers in a way that is legally admissible

b. Objectives of Computer forensics include

i. Identify, gather, and preserve the evidence of a cybercrime

ii. Track and prosecute the perpetrators in a court of law

1. Criminal case would involve jail time if found guilty
2. Civil case would involve a monetary penalty if found guilty
3. Administrative cases are non-criminal in nature

a. Internal focus of businesses used to understand issues that occurred in a business

iii. Interpret, document and present evidence to be admissible during prosecution

1. There are rules that allows evidence to be admissible

iv. Estimate the potential impact of malicious activity on the victim and assess the intent of the perpetrator

v. Find vulnerabilities and security loopholes that may help attackers

vi. Understand the techniques and methods used by attackers to avoid prosecution, and overcome them

vii. Recover deleted files, hidden files, and temporary data that could be used as evidence

1. **DD Tool** in linux can be used locate residual data
2. Creating a bit by bit copy using a drive imaging tool would allow us to examine the sectors of the drive looking and finding remnant data
3. **NetStat** tool
  - a. Networking/protocol stack tool and function
4. **Nbtstat** in Windows
  - a. Allow view of information in the name resolution cache in a Windows machine

#### 5. Route print

a. Allows view of routing table

viii. Perform incident response to prevent further loss of intellectual property, finances and reputation during an attack

ix. Have knowledge about the laws of various regions and areas, as digital crimes are omnipresent and remote in nature.

x. Know the process of handling multiple platforms, data types and operating systems.

xi. Understand the usage of proper tools for forensic investigations.

xii. To minimize the tangible and intangible losses to the organization

# Computer Forensics Study Guide

**Dave Kleiman**



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