What is forensic science?
Forense Science is an application of science, to resolve legal and crime
soluted problems. In forense science, to resolve legal and crime related problems. In forense sciences, the law and science are integrated
together.
Define Digital Forensic:
Define Digital Forensic: The application of computer science and investigate procedure, for a The application of computer science and investigate procedure, for a
legal pour of mathematics, we
search authority, chain of currenting and possible expert presenta-
search authority, chain of custody, valuation of possible expert presenta-
tion.
Digital Forendes brosess:
Digital foundies process can be bottled down to series of stages. These
phases are as follows:
1. Proper search authority
1. Proper services
2. Chain of custody 3. Imaging and Hashing function
4. Validation with mathematics
5. Valedated tools
1 Danie Tabuta
7. Analysis / Test 8. Linking & some activity with some specific user account.
8. I'm king & some activity with some specific
9. Reporting + mesentation.
10. Porible expect present
ther of agital Forensics: (BTK Killer)
the of agital Forensics: (BTK Killer) Criminal Investigations: Will (BTK Killer)
Criminal Investigations of Box Killer) Bland, Torture, Kill (BTK Killer)
Dennis Rader Dennis Rader Murdered 10 people in Komsas (1974 to 1991) Finale Newspaper (19/03/2004)
Denotes Anote in Komsas (1974 to 1991)
Silence Broken. Incomment of Silence Broken. Sugar Silence for killing a Young mother"
mother"

-scoret code: 'Ren, st will be OK." - Ploppy file: "Test A. ref" [artf - rich text file] -> Date created : 10/02/2005 -> Date modified: 1 4/02/2005 telle: Christ Leitheran Church -> Last saved By: Dennis capture Date: 25/02/2005 (Arrested) -> Bublished on: Witcheda Engle Newspaper Civil Litegations: (e-discovery) Entelligence: (Moussaoui K911) -> Zocarlas Moussaoui

-> Arusted By: INS agents in Eagan, Minoresota -> pilotz123 @ hotmail. com hetmail provided by microsoft like gonal and yahoo Basic subscriber information needed only. -> IP address referred to "PCII" at University of Oklahoma Administrative Matters: (SEC) SEC -> Security Enchange Commission.

e-biscovery stands for electronic discovery. It refers to any process in which data is located, secured and searched with an e-Discovery: intend of using it as an evidence, in a clock or criminal legal case.

	nts that me applied to Digital Forensies:
Laptop	Video
Desktop	Meuseages
Hand-disk	Powerpoint
Pendrive	Encel
Mobile Devlees	Text
Brivate Clouds	Docionent
1 mage	
Audlo	1 Favor stes Process!
Break down of D	igital Forensics Process!
a) Search Authorit	you need a proper
1. To initial	e a digital 10
search au	thority related document.
2. Search au	thority related document is required for collecting
In ago	and all are not arrive
3. Without	rearch authority related document, the without or proper investigate without or proper property all the widence which are
to arosio	investigate which are
search au	thought related document, all the ovidence which me are suppressed and not being considered as valid
collected	Wil happens
document	inal investigation, search authority related document is insued by the court.
4. For crim	and investigation, since
warrant,	insula by the course warch authority related documen
5. For any	civil imblingation and the side of to be
are insul	civil investigation, search authority related document civil investigation, search authority related document of the public procedulon and the side of to be and by the public procedulon and the side of to be
accused.	
	ust of us
1 The ch	alm of custody is truck insula for every digital in order to maintain integrity.
golden Cl	in order to maintain integrity.
o The e	hain of custody is according
2. 1/2	and marking the actual evidence item.
Wenn	time of analysis, if an item change, it should
3. Each	while of winds of the state of the state of
be rue	group.

c) Imaging and Hashing: 1. After collecting a digital evidence, experts avoid to work on the original evidence. Rather they prefer to make a clone of the evidence. In order to prespare the clone of the evidence and enact copy of every bit of that media is done. This copying is knowns as, "Bitsching Copy". This process to called tranging. 2. Hashing is a mathematical process who am algorithm, that produces an imique value, that is essentially the digital fingerprint, DNA of a particular file, place of media. 1. Forenies tools, next, to be validated or tested before they are used. So that we can ensure that this trols are capable D Validated Tools: of gloing is correct results and accurate results. 2. Newly collected trobs and updated trob, both need to be validated e) feplatability: 1. The results of the founder enamination, should be able to be duplicated in the process, so that the separate enamineer can repeat the process using same evidence, same process and same tooks and come up with same results. 2. Osvalty assurance is a procedure of and praetice. 3. In the digital forensies process, which will help us to give the gen gurantee of accuracy based on findings. 4. Quality assurance addresses multiple issues, skill and training of examiner, security of evidence, reliability of the tools and processing the evidence in many more.

- f) Analysis: 1. Linking some activity with some specific user account. 2. Determine whether any USB device is connected to your laptop on PC on not. 3. Breaking eneryption. 4. Edentify relationship or connection between individuals. 5. Identify the rebetter which has already been visited. 6. Determining whether contain files are loaded or downloaded. 7. During analysis process we recover the data. g) Reporting: 4. In almost every content where digital forensle is used, some type of report needs to be generated. 2. Reports maybe of different forms or format. 3. The length, form, format and description of the report need to be defined or specified by the higher authority.
 - one need to be defined or specified by the higher authorices. As we are able to relect specific artifacts,
 - files, to be included on the report.

 5. One major issue with report generation is they are often very technical. As report needs to presented before judge and jusy who may not be a technical person to understand the report, Hence consincing a non technical person about a technical report is not an easy task.
 - 6. A report should be precise, user friendly and shouldn't be stand alone. It should be include abstract (zest), summary, list of items, evidence, the trobs to perform the analysis finding and conclusion.

b) Parible expect Eurentations 1. The phracle of the forendes proces is the presentation of the findings to a judge or jury.

Locard's Enchange Brinciple:

Escard's Enchang Rinciple says that in the physical world, when purpetraptors enter or leave a crime scene, they will leave something behind and take something with them.

En: DNA, fatent prints, hair and fibre

In Digital Forensies: (Enmaple) Registry Keys and Log files - Hair and fiber

Scientific Methods: 1. Scientific working on digital evidence

2. American academy of forensic science.

3. American society of crime labrotary directors

4. National institute of idudents and technology.

5. American society for texting materials.

the state of the s

6. Indian School of Ethical Hacking.