UT Ethical hacking chpt3 1 Digital evidence - A Repers to any information that is stored or transmitted in a digital forma 8 is relevant to a criminal investigation - This can include do cumants, emails, images, video etc rules of digital evidence are 1 Admissible - Digital evidence must be relevant to the case & meet legal requirement to be admissible in con @ Authenticity - It must be established that the digital evidence has not been tampered in any way. 3 Integrity - Integrity should be maintained throughout the oro cess @ privacy - Digital evidence may contain sensitive into so it must be handled in a manner that protects the privacy rights.

computer forensics

8 analysis in order to gather evidence from digital devices which is so suitable for presentation in a court of law

while for maintaining a documented chain of evidence to find out escally what happened on a computer & who was responsible.

uses

3

- · Recovering deleted files
- + Relovering deleted emails
- · analyzing internet browsing history
- · identifying & analyzing malware

challenges

- to keep up with new devices & Storage formal
- the volume & complexity of digital data
- eneryption can prevent access to digital evidence.

	Page No.: Date:	YOUVA	
3	evidence collection	10	-
	It involves the ejumering & preservation	an	1
	of physical & digital evidence relevant	t to	
	a ego legal investigation.		
	and the true of the true of the state of the		
	Type of evidence		
	· physical evidence (Real evidence)	-	
	- involves tangible ovidence such as do	uma	end
	, flash drive etc		
	the part of the sale of management of the		
	· Digital evidence		
	- such as emails files et C	11/1/2	
	Old balaba programa	4	
	. Testimonial evidence	-	
	- statement made by witness or su	pects	
	the title of Edyphical malinary		
	· Hearsay		
	- evidence presented by a person who	was	
/11	not a direct witness.		
_ 1	to help up with non drive it soon to		
	- Frank II. See a		-
	Judice to a particular of amelian and	4)	
-			
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	and the second s		
		-	

MTWTFSS

(4)	Tools used in computer forensics.
*	· hardware (advanced)
	- Tools ranges from simple to compronensive
	systems & servers.
T period	- & Basic & single purpose hardware tool
	· ACARO
	* AFC-7720WP
	· ultra wide SCSI-to-IDE Bridge
	ses there are no believes yours
	- advanced
	· FRED system
nt-ut	· DIBS BYSTEM
	ac it to a restaurable to
*	· Software bound landy
	- Safe Back
	- X-way forensincs
- 110	- En case
	- Access Data flx
	CAL STANCES CO.
	HELDER POLICE
	position of the one with members a second
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	wo of tembers promised a symmetric to

		DE - argural Evidence	Page No	1
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	(\$)	evidence acquisition	Man	
_	(6)	Evidence acquisition involves the	process	ot
_	- 941	collecting & preserving digital	evidence	top
		Forensic cinalysis.	Ally B	
_				
_		- Remote acquisition offers wit	h Runti	in
		software offers 'HOHOST" pr		-
<u>_</u>		A TROUBLE	39A .	
	-	To use use these it's bast	to how	9
_		computer connocted on the sc	ame loca	u
-		hub with minimal network &	+ raffic	
		and the second	0397 .	
_		Steps in computer evidence proce	ssing in	dude
-		O identification		
-		- identify potential sources of DE	(lomput	(da)
-		a collectu	100 - 1	
			11-X	
		- Collection of the evidence using app	ropriate T	200
		3 preservation	36 4	
		- maintaing integrity		
		analysis (determine the results of	1600000	-
			(curacy)	-
-		5) presentation (summarice & present	findinan	
		6 documentary (Document tindinas	to 100	in
		(+100)		
-				
				THE R. P. LEWIS CO., LANSING, MICH.

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Date:					YO	UVA

chp2

6 objective of Digital forensics

- · Evidence to court (Presentation)
- . I dentifying the culprit
- · Legal procedures
- . Data redundary crecover the deleted files)
- · analysis (draw cordusion)

Types of digital forensics

- · Disk forensics
- deals with extracting row data from the Primary & or secondary Storage of the device by searching active, modified or deleted files
- . Network forensics
- Involves monitoring & analyzing the computer network traffic.
- · Database for ensice
- escapation to the almost 8 pourts at durabases
- · Malware forensig
- identification of suspicious code, viruses,

worm etc

· Email forensics

· Mobile phone f.

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- A			
Chp2	Chain of custody		
	the chain of costady is a predoments the chandlogical his evidence from the moment is to jt's presentation in court the purpose of coc is to the integrity & authenticity of & to prevent tampering.	establis the e	Colloca
no no	Process of cocinvolves Documenting the collection o- including time, data, location involved.	evi de	nce (da
	Departaging & Labeling the evi prevent tampering or damage. 3 Maintaining a detailed record has had custody of the evidence action taken withit	of w	00
	5 presenting the evidence in cour documentation of the coc.		g with

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Anti- forensic - it is a term that (ontradicts exper seps forensic

the applyments

It aims to dimines in the amount & reliability.
of suidence available at crimo sceno.

Anti-forensic techniques are strategies intended to complicate the investigation process

quality & allantity of digital evidence

Mere file hiding, steanography etc technique are used to conceal digital evidence.

religio Caraluge name Esupe of

(years crevering results)

of suntition of the Hand Street of the

8	Incident response regers to the structured approach an organization takes to
	adding a manage the appropria
odB.	a cy persecurity in cident.
	These incident can range from data
	breaches & malware injection to \$ DOS & insider threats
	7.310 L J L
129	· the primary goal is to minimize damage, reduce recovery time & cost & miligrate future
	Atisk totals de atmente de leuren
uli	Roles of CSIRT - Computer Security
	incident response time
	Detection & monitoring (detecting incident
	2 Analysis Canalyze nature Escope of incid
	@ Eradicath (romoving malware)
	@ forensic investigate (to determine the root cause of incident)
	6 documenting & reporting

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