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Flim => WAP to implement SHA-1 (Secure hash algo).
import hashlib

ster = 'Hello world'

result = hashlib. sha 256 (str. enrode ())

result 2 = hashlib. sha I (str. enrode ())

print ("Original string is: - " + str)

print ("SHA 256 Hashing code: - " + result.) rendigest ())

print ("SHA-1 Hashing code: - " + result.) rendigest ())

Output >

Original string is: - Hello world

SHA 256 Hashing code: - 64 ec 88 c acob 268 05 ba1a 3567
- 8a 1b 5 31 6 d 212 f 4 f 3 66 b 24 77 24
- a 8 a e c q 3 7 f 3 c

SHA 1 Hashing code: - 7b 50 7 c 3 a 1 f 48 c 8609 a e 713 cd f b 639

dee 3 9 6 7 3 f 5 e

Aim > Installation of rootkits and study about the Variety of options.

Root kit is a stealth type of malicious software designed to hide the emotence of certain process from normal methods of detection and enables continued previleged access to a computer.

Introduction >

Root is a UNIX/LINUX term that's equivalent to administrator in windows. The word kit denotes programs used to get root access.

This malicious software boots up before your OS. and allows installation of hidden files, processes, hidden user accounts and more.

The prootkit serves two primary function: remote command (control (back door) and evaes dropping. The presence of prootkit on Network was first documented in early 1990s. At that time, Sun and Jinux OS were primary largets for a hocker looking to Install a rootkit.

Biocedwic: -

Step1 => Download Prooftit from "www.gmer.net"

Step? -> Thirdisplays the brocesses, Modules, Services, Files, Registery, Porthit/Malwares, Autostart, CMD of dozal host.

Steps = Select process menu and trill any unwanted process.

Stepy =) Modules menu displays various system fileslite. 545 tel

Steps => Services menu displays the complete services running with autostart, Enoble, Disable, System, Boot.

Steps = Eiler menu displays fall files on HDD volumes.

Step 7 => Registry displays Hkey - Courent user and Hkey - Local Machine.

Step 8 7 Root Kit / Malware scons the doral drives selected.

Steps - Autostart displays the registry base autostart applications

Steps => CMD allows the user to interact with command line willities on Registry.

Teacher's Signature: ___

Aim => Working with SNORT TOOL To Demonstrate intruvior detection system.

Introduction >

SNORT is an open source network intrusion detection system (NIDS) and it is a packet sniffer that monitors network traffic in real time.

SNORT Tool >

Snort tool is based on dibpeap (for library pocket capture), a tool is widely used in TCP/JP traffic Sniffers and analyzers.

SNORT can be configured in to run in three modes: -

1 Sniffer mode

-) Senart - v

- Snort - vd

2 Parket Logger mode

-> Snort -dev -1 C: log

-> Snort - dev - 1 c: > log - h ipaddress/24

3. Network Intrusion detection system mode.

Teacher's Signature:

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Stepa	Sniffer	mode	snort-V	Printout	the	TCFI	TP	partite
	henden	on-the	scrren			,		1

Esters Snort - vd Show the TCP/IP I CMP header with application data in transit.

Step? Packet Logger mode snort -der - 1 C: log [create this directory in Cdrive] and snort will automatically know to go into packet logger mode, it collects every packet it sees and places it in log directory.

Stepy snort-dev-1 c: log-hipaddress /24 This rule tells snort that you want to print out the data link.

Step 5 snort-1c: \log - b this binary mode logs everything into a single file

Stept Network Intrusion Detection system mode snort -d c:\log - h ipaddress /24 - c snort.conf

Steps Rounload SNORT from snort.org. Install snort

with or without database support.

Steps Select all the components and dick Nent. Installand

Steple skip the win Pcap driver installation

Steps Add the path vociable

Step19 create a path ranjable and point it at snorther widdle step19 clack OK button and then close all dialog boxes.

Teacher's Signature.

Almos To study about MRP poisoning

Address sicialistion protocal (AFF) is used to convert If address to physical address. The host sends on ARP broadcast on the vielwark, and the modifierd computer desponds with its MAC address. The desolved IP/MAC address J's then 148 to communication.

the switch so that it can associate the Atake MAC addresse with the Traddiese of a computer on a Network and hijack the traffic.

ARP poisoning:

- · It is used to convert I Paddress to physical address
- · Enter following in command: Arp-a
- · a is the parameter of to contents to the APL caches.
- · dynamic entries are added and deleted automatically during TIP/IP sessions.
- · State entries we added manually and deleted when computer regtors.
- · Ipconfig / all command to get the Irand PAC address.
- arp-5 192.168.0, 56.74-86.

- · ary d · · · to delete an entry. · Rounload ettercap for windows.

Teacher's Signature: