LATE BHAUSAHEB HIRAY S.S. TRUST'S INSTITUTE
OF COMPUTER APPLICATION, MUMBAI

Ethical Hacking Lab Manual

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16LEAVES

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First Edition, 2023

Paperback ISBN: 978-81-19221-44-8
eBook ISBN: 978-81-19221-52-3
WebPDF ISBN: 978-81-19221-53-0

Printed and bound in India by
16Leaves
2/579, Singaravelan Street
Chinna Neelankarai
Chennai – 600 041, India
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www.16Leaves.com
Call: 91-9940638999

Contents

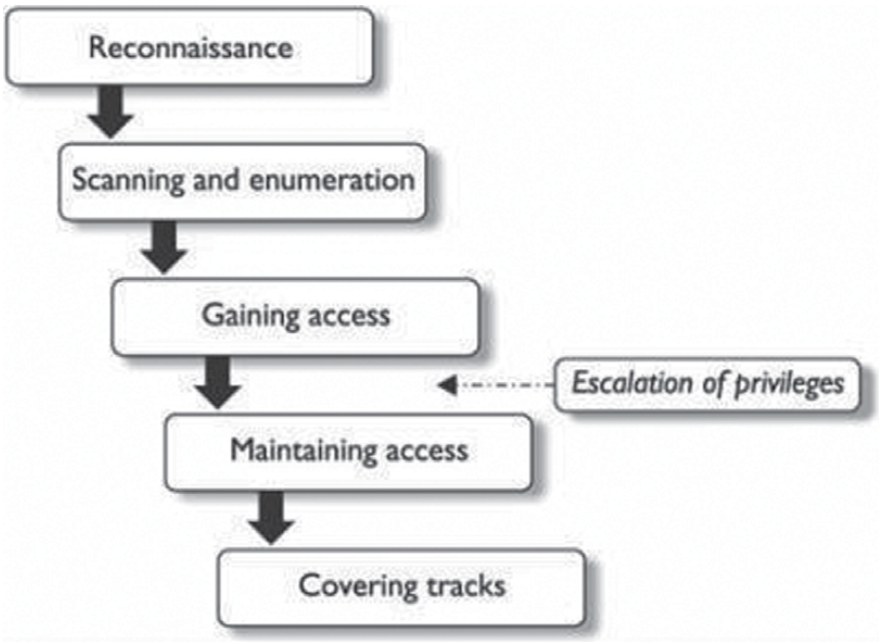
Chapter 1 Use software tools/commands to perform foot printing/ information gathering and generate analysis report

Practical No. 01

Aim: Use software tools/commands to perform foot printing /information gathering and generate analysis report

Solution:

Phases of Ethical Hacking



Footprinting is a part of Reconnaissance

Types of Footprinting

1) Passive
2) Active

During footprinting, a hacker can collect the

1) Domain Name
2) IP Address
3) Namespaces

4) Employee Information

5) Phone Numbers

6) E-mails

7) Job Information

Footprinting methods and tools

1) Search Engines

   - Google Earth
   - Google Maps
   - Bing Maps

   The above Search Engines provide Location Information

   - Linkedin.com
   - Piple.com
   - These sites are used to view the Personal Information
   - www.netcraft.com
   - **Performing footprinting using Google Hacking commands**

2) Google Hacking

   Google Hacking involves Manipulating a Search String with addition of specific Operators to search for vulnerabilities.

Basic Examples

This Search	Find Pages Containing...
Biking Italy	The words **biking** and **Italy**
Recycle steel OR iron	Information on recycling steel or recycling iron
"I have a dream"	The exact phrase **I have a dream**
Salsa -dance	The word **Salsa** but NOT the word **dance**
Louis "I" France	Information about **Louis** the First **(I),** weeding out other kings of **France**
Castle ~glossary	**Glossaries** about **Castles,** as well as **dictionaries,** lists of **terms, terminology,** etc.
Fortune-telling	All forms of the term, whether spelled as a single word, a phrase, or hyphenated
define: imbroglio	Definitions of the word imbroglio from the Web

Calculator

Operators	Meaning	Type into Search Box (& Results)
+ - * /	Basic Arithmetic	12 + 34 – 56 * 7 / 8
% **of**	Percentage of	45% of 39
^ or **	Raise to a power	2 ^ 5 or 2 ** 5
Old units in new units	Convert units	300 Euros in USD, 130 lbs. in kg, or 31 in hex

Restrict Search

Operators	Meaning	Type into Search Box (& Results)
city1 city2	Book flights	**SFO BOS** (Book flights from San Francisco (SFO) to Boston (BOS))
site:	Search only one website or domain	**Halloween site:www.census.gov** (Search for information on Halloween gathered by the US Census Bureau.)
[#]..[#]	Search within a range of numbers.	**Dave Barry pirate 2002..2006** (Search for Dave Barry articles mentioning pirates written in these years.)
filetype: (or ext:)	Find documents of the specified type	**Form 1098-T IRS filetype: pdf** (Find the US tax from 1098-T in PDF format.)
link:	Find linked pages, i.e., show pages that point to the URL	**link:warriorlibrarian.com** (Find pages that link to Warrior Librarian's website.)

Specialized Information Queries

Operators	Meaning	Type into Search Box (& Results)
book (or books)	Search full-text of books	**book Ender's Game** (Show book-related information Note: No colon needed after **book.**)
define, what is, what are	Show a definition for a word or phrase	**Define monopsony, what is podcast** (Show a definition for the words **monopsony** and **podcast**.)
define:	Provide definitions for words, phrases, any acronyms from the web.	**define: kerning** (Find definitions for kerning from the Web.)
movie:	Find reviews and showtimes	**movie: traffic** (Search for information about this movie, including reviews, showtimes, etc.)