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|  | **SAVEETHA SCHOOL OF ENGINEERING**  **SAVEETHA INSTITUTE OF MEDICAL AND TECHNICAL SCIENCES**  **INSTITUTE OF COMPUTER SCIENCE AND ENGINEERING** |  |

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| **COURSE CODE: ITA 1461** | **COURSE NAME:** ETHICAL HACKING FOR SOCIAL MEDIA | **SLOT: D** |
| **BRANCH** | **FOR ALL BRANCHES & ALL YEAR** | |
| **LIST OF EXPERIMENTS** | | |

1. A Network administrator for a company and you have been asked to investigate a possible security breach on the network. Your goal is to use Wireshark to capture and analyze network traffic to identify any suspicious activity. Specifically, you want to examine the packets that use TCP and look at different header fields and payloads of the concerned packets.
2. To execute the following commands in Kali Linux Operating Systems.
   1. Ls command (ii) cat command (iii) PWD command
3. To find out the Whois, DNS Records and Diagonstics for particular website by using Whois search in windows operating systems.
4. To execute the following commands in Kali Linux Operating Systems.

(i) TCP syn port scan (ii) TCP connect port scan

(iii) UDP port scan (iv) TCP ack port scan

1. To perform various host Discovery scanning using Nmap in Kali Linux operating systems.

(i) Only port scan (ii) Only host discover

(iii) arp discovery on a local network (iv) disable DNS resolution

1. A penetration tester hired to evaluate the security of a web application running on a server with Kali Linux operating systems. His task is to perform a vulnerability analysis of the web application by using CGI scanning with Nikto. How would you approach this task and what steps would you take to ensure that you are able to find all the vulnerabilities in the web application effectively?
2. A cybersecurity analyst tasked with gathering information about a specific company and its employees. The company's network is running on Kali Linux operating systems. His goal is to demonstrate how to use the Harvester command in Kali Linux to gather information such as email addresses, subdomains, and employee names associated with the company. How would you approach this task, and what steps would you take to ensure that you are able to gather all the necessary information effectively?
3. You are a systems administrator for a small business, and your customers are reporting connectivity issues. Your goal is to troubleshoot the problem by executing the trace route and if config commands in Windows operating systems
4. To execute the following commands in Kali Linux Operating Systems.
   1. mv command (ii) Uname command (iii) Uptime command
5. To execute the following commands in Kali Linux Operating Systems.
   1. rm command (ii) Users Command (iii) Tree command
6. To execute the following commands in Kali Linux Operating Systems.
   1. History command (ii) Wget command (iii) Date command
7. To execute the following Nmap service version and OS detection commands in Kali Linux operating Systems.

(i) detect the version of services running (ii) aggressive scan

(iii) detect operating system of the target

1. To execute the following Nmap Timing and performance commands in Kali Linux operating Systems.
   1. aggressive speed scan (ii) insane speed scan
2. To execute the following Nmap Timing and performance commands in Kali Linux operating Systems.
   1. polite IDS evasion (ii) normal IDS evasion
3. To perform various port scanning such as TCP , UDP , ACK, SYN using Nmap in Kali Linux operating systems.
4. Ram is a network administrator for a large enterprise and he have been experiencing some network performance issues. His goal is to analyze the network packet transmission using a packet analyzer tool to identify the cause of the problem.
5. You are a systems administrator for a small business and you need to automate some repetitive tasks. Your computers are running on Windows operating systems and you want to create a batch file that can run multiple commands in sequence. How would you approach this task and what steps would you take to ensure that the batch file is able to execute all the commands correctly and in the desired order?
6. To execute the following commands in Kali Linux Operating Systems.
   1. Less command (ii) More command (iii) Vi Command
7. A penetration tester who has gained access to a target network running on Kali Linux operating systems. Your goal is to gain access to a specific user account by cracking their password using the Hydra tool. The target system is using a remote authentication service (e.g SSH, FTP, HTTP, etc). How would you approach this task, and what steps would you take to ensure that you are able to crack the password as efficiently as possible?
8. To execute the following commands in Kali Linux Operating System
   1. Cal command (ii) Free command (iii) Touch command

INTERNAL EXAMINER EXTERNAL EXAMINER