

SCHOOL OF INFORMATION TECHNOLOGY AND ENGINEERING DIGITAL ASSIGNMENT 1- WINTER SEMESTER 2023-24

Course: Information Security Management Lab

Marks: 10 Course Code: BCSE354E

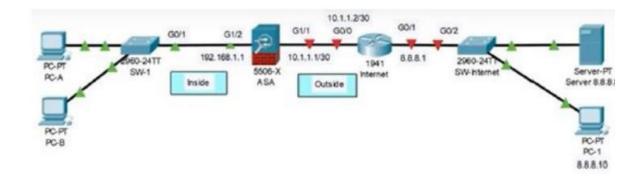
Slot: L33+L34 Deadline: 12-Jan-2024

GROUP

Poli Vardhini Reddy- 21BIT0382 Kaushal .M- 21BIT0506

Question 1 [5 Marks]

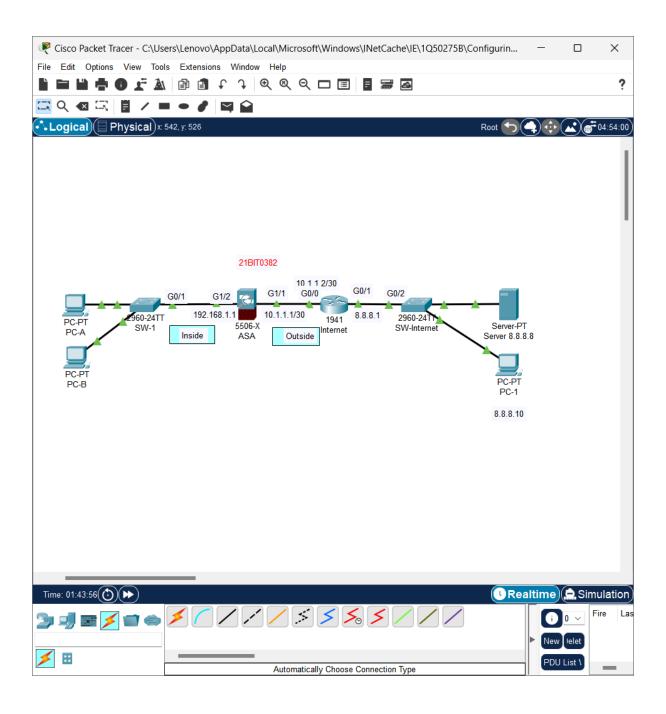
Configure an ASA firewall according to the topology given below.

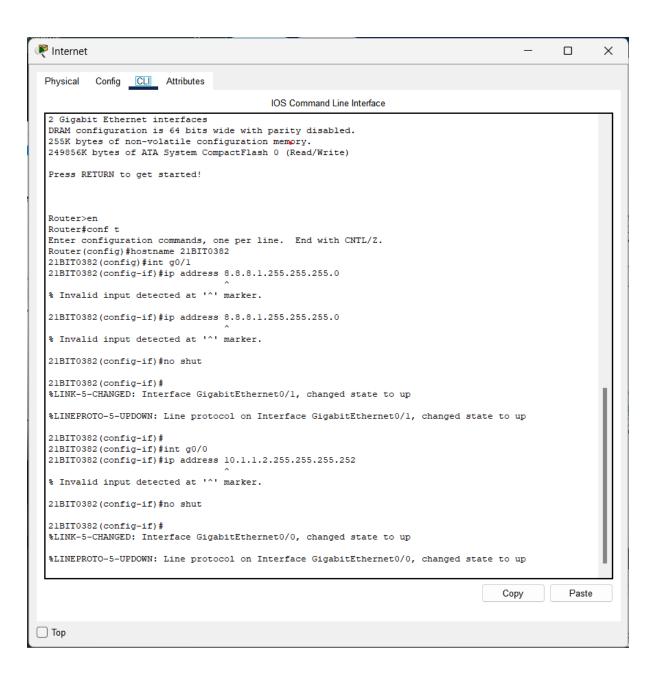


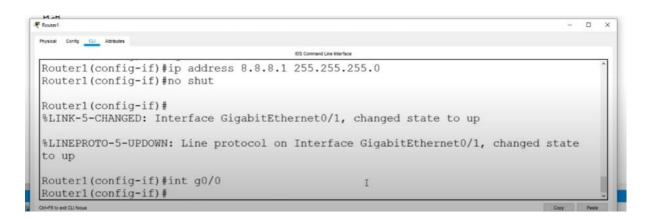
ASA should be named with your registration number and also screenshots for all subdivisions given below. Perform the following on the ASA whose host name should be configured as your registration number.

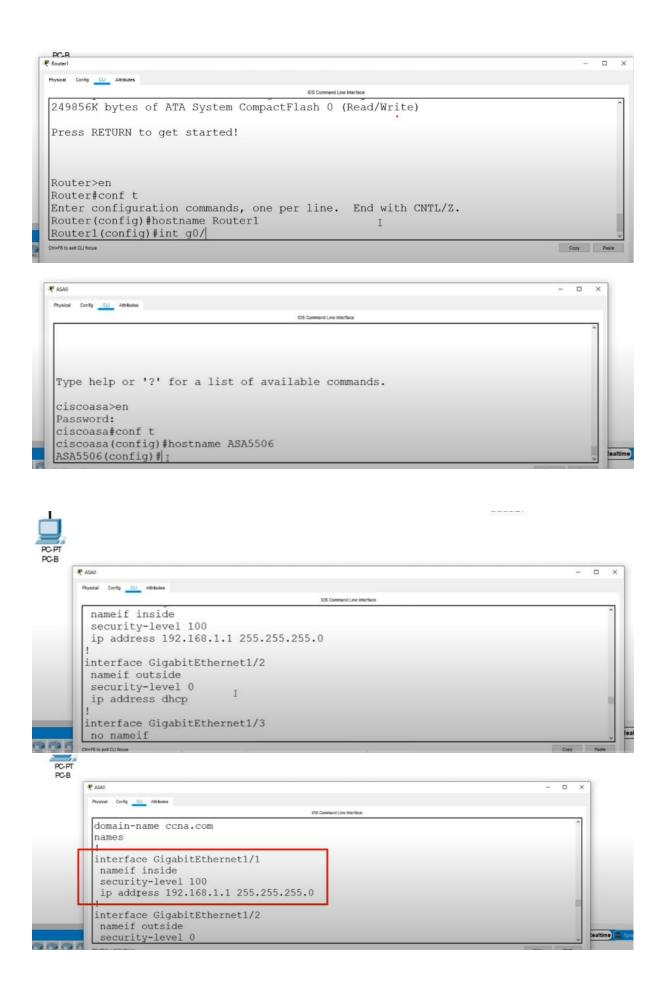
- (i) Verify connectivity of ASA ◆ Configure interface security levels using CLI ◆
 Configure routing, address translation, and inspection policy on ICMP, FTP and
 HTTP using the CLI ◆ Configure DHCP
- (ii) Configure ACLs. ACL should filter traffic based on the following PC-A can send ICMP and DNS traffic but not FTP and web traffic PC- B cannot send ICMP and DNS traffic but can send web and FTP traffic

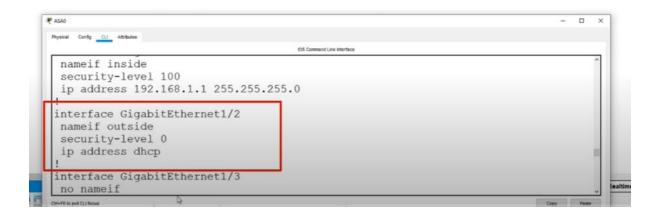
CONNECTIVITY OF ASA



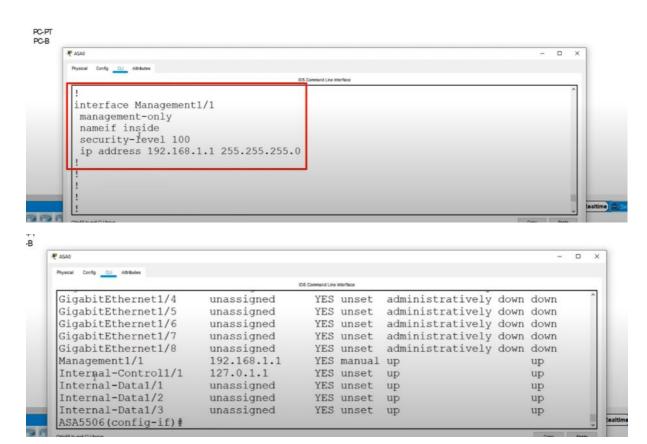






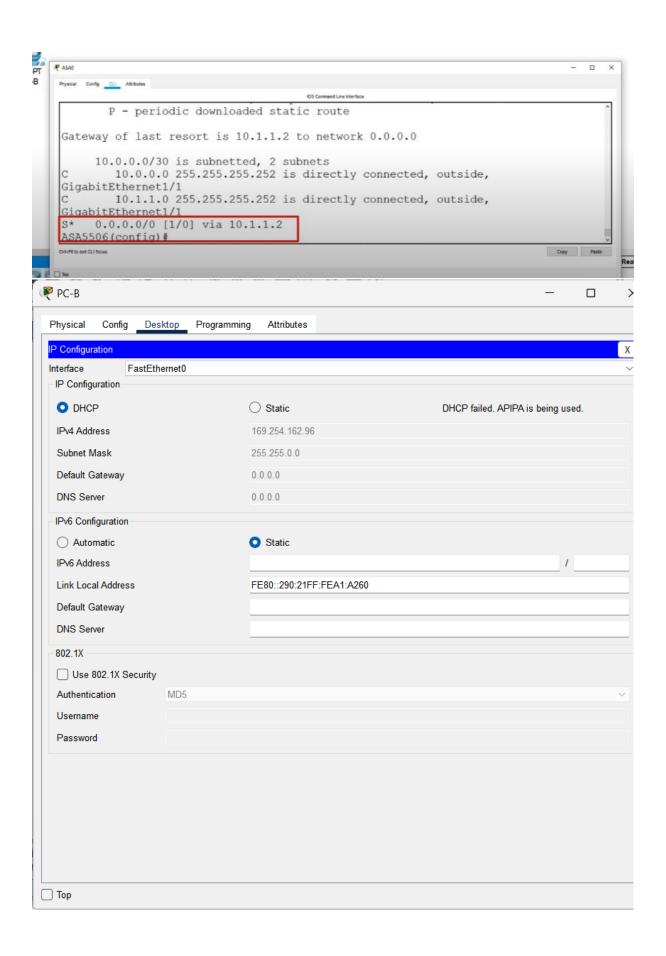


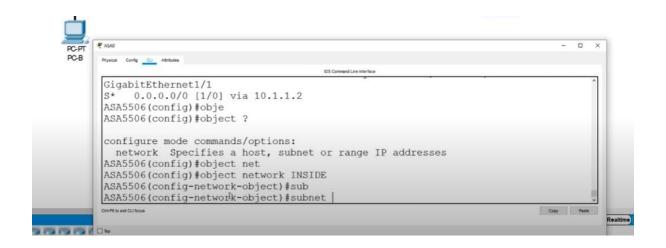


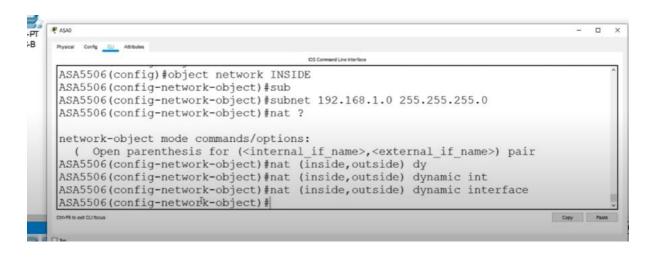


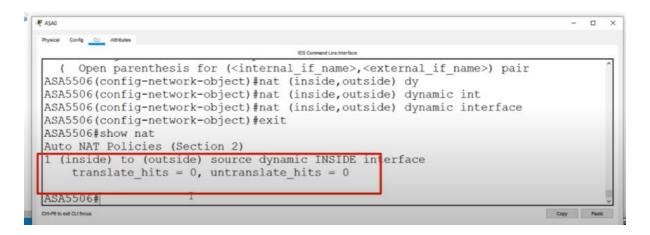
		IOS Command I	,ine interface		
Method					
GigabitEthernet1/1 manual	outside		10.1.1.1	255.255.255.252	
GigabitEthernet1/2			unassigned	unassigned	unset
GigabitEthernet1/3			unassigned	unassigned	unset
GigabitEthernet1/4			unassigned	unassigned	unset
GigabitEthernet1/5			unassigned	unassigned	unset
GigabitEthernet1/6			unassigned	unassigned	unset
GigabitEthernet1/7			unassigned	unassigned	unset
GigabitEthernet1/8			unassigned	unassigned	unset
Management1/1 manual	inside	I	192.168.1.1	255.255.255.0	
Current IP Addresses	:				
Interface	Name		IP address	Subnet mask	
Method					
GigabitEthernet1/1 manual	outside		10.1.1.1	255.255.255.252	
GigabitEthernet1/2			unassigned	unassigned	unset
GigabitEthernet1/3			unassigned	unassigned	unset
GigabitEthernet1/4			unassigned	unassigned	unset
GigabitEthernet1/5			unassigned	unassigned	unset
GigabitEthernet1/6			unassigned	unassigned	unset
GigabitEthernet1/7			unassigned	unassigned	unset
GigabitEthernet1/8			unassigned	unassigned	unset
Management1/1	inside		192.168.1.1	255.255.255.0	
manual					

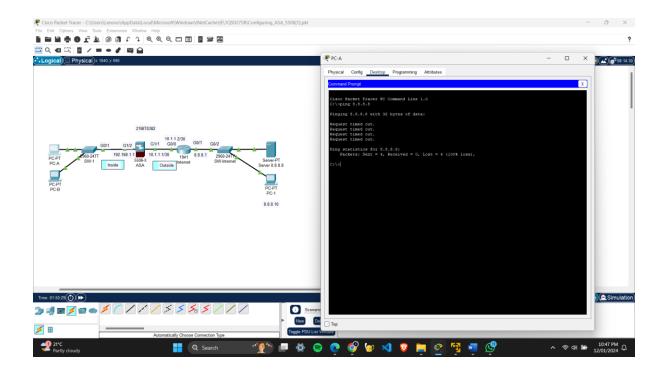




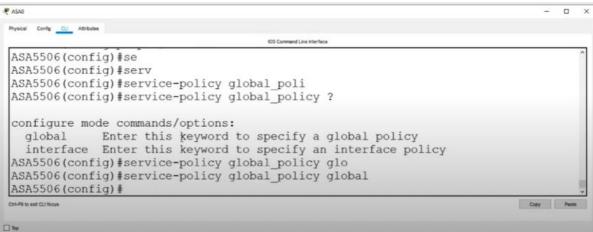












```
Packets: Sent = 4, Received = 0, Lost = 4

(100% loss),

C:\>ping 8.8.8.8

Pinging 8.8.8.8 with 32 bytes of data:

Reply from 8.8.8.8: bytes=32 time=1ms TTL=126
Reply from 8.8.8.8: bytes=32 time<1ms TTL=126

Ping statistics for 8.8.8.8:

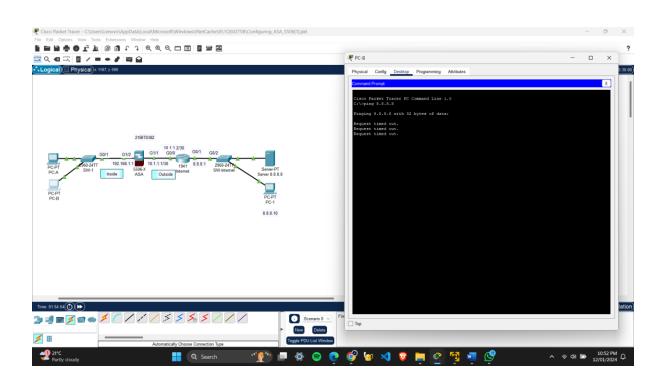
Packets: Sent = 4, Received = 4, Lost = 0

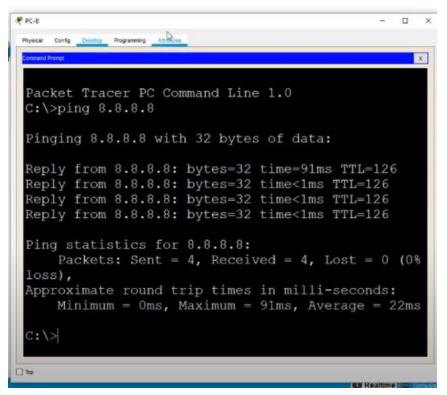
(0% loss),

Approximate round trip times in milli-seconds:

Minimum = 0ms, Maximum = 1ms, Average = 0ms

C:\>
```







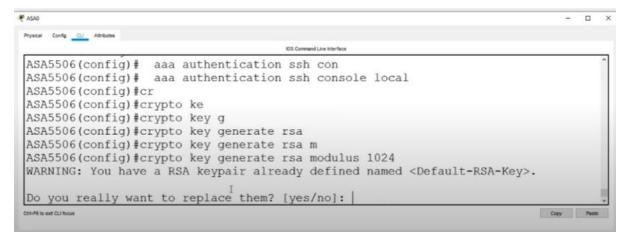


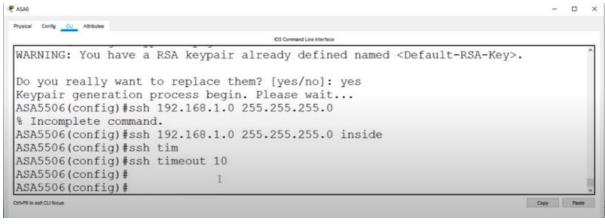
```
Physical Comfig __Cl__Abributes

C5 Command Line Interface

ASA5506 (config) #policy-map type in
ASA5506 (config) #policy-map type in pass ASA5506 (config-pmap) #policy-map type in pass ASA5506 (config-pmap) #parameters
ASA5506 (config-pmap-p) #message-length m
ASA5506 (config-pmap-p) #message-length m
ASA5506 (config-pmap-p) #message-length m
ASA5506 (config-pmap-p) #exit
ASA5506 (config-pmap) #exit
```

```
F PC-A
                                                  Physical Config Desitto Programming Attributes
 C:\>ping www.ccna.com
 Ping request could not find host www.ccna.com.
 Please check the name and try again.
 C:\>ping www.ccna.com
 Pinging 8.8.8.8 with 32 bytes of data:
 Reply from 8.8.8.8: bytes=32 time=10ms TTL=126
 Reply from 8.8.8.8: bytes=32 time<1ms TTL=126
 Reply from 8.8.8.8: bytes=32 time=14ms TTL=126
 Reply from 8.8.8.8: bytes=32 time<1ms TTL=126
 Ping statistics for 8.8.8.8:
     Packets: Sent = 4, Received = 4, Lost = 0
 (0% loss),
 Approximate round trip times in milli-seconds:
     Minimum = 0ms, Maximum = 14ms, Average = 6ms
□ 700
```



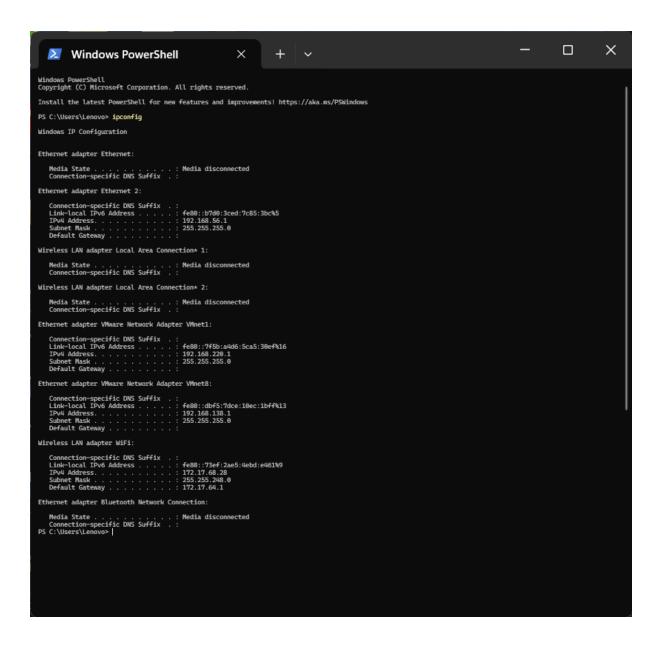


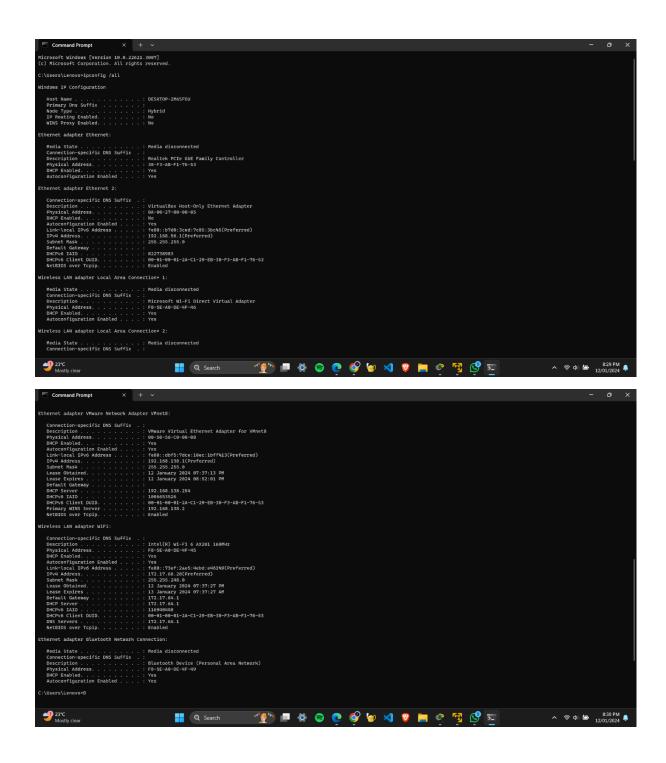
```
₹ PC-A
Physical Config Desitto Programming Attributes
                                                    X
Pinging 8.8.8.8 with 32 bytes of data:
 Reply from 8.8.8.8: bytes=32 time=10ms TTL=126
 Reply from 8.8.8.8: bytes=32 time<1ms TTL=126
 Reply from 8.8.8.8: bytes=32 time=14ms TTL=126
 Reply from 8.8.8.8: bytes=32 time<1ms TTL=126
 Ping statistics for 8.8.8.8:
     Packets: Sent = 4, Received = 4, Lost = 0
 (0% loss),
 Approximate round trip times in milli-seconds:
     Minimum = 0ms, Maximum = 14ms, Average = 6ms
 C:\>ssh -l Admin1 192.168.1.1
 [Connection to 192.168.1.1 closed by foreign
 host]
 C: \>
□ Ro
```

Question 2 [5 Marks]

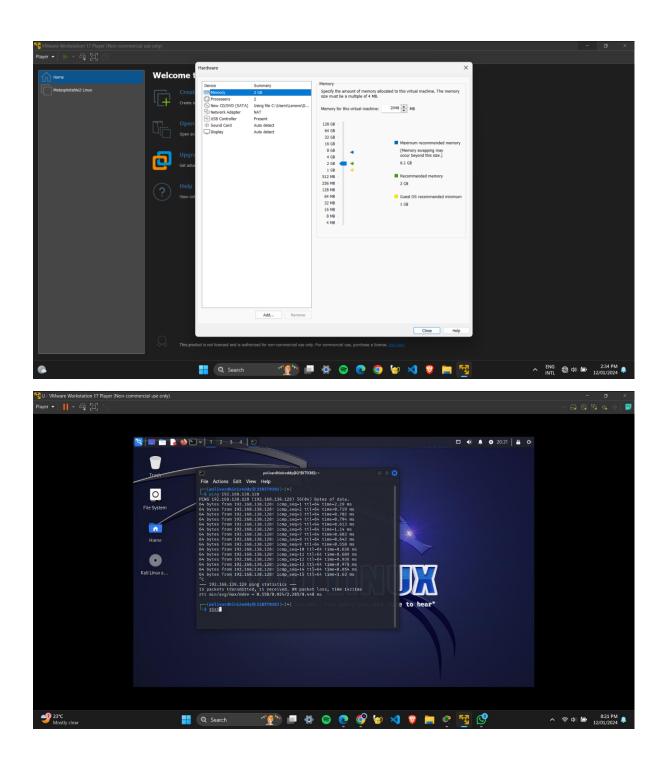
 i. Give screenshot of System IP, Kali Linux IP and Metasploitable IP (3 Marks)

SYSTEM IP

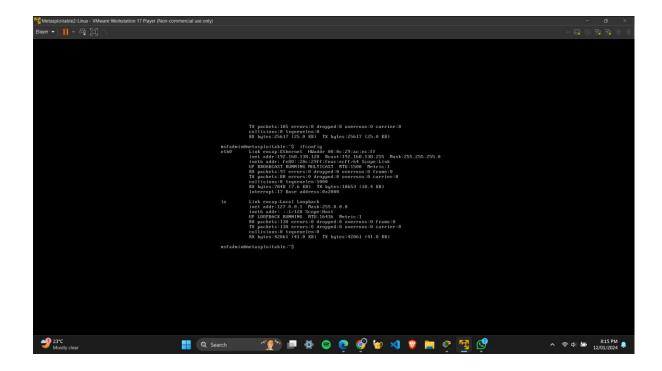




KALI LINUX IP



Metasploitable IP



ii. Run Metasploitable IP in firefox browser of Kali. Give Screenshot (2 Marks)

