# GANPAT UNIVERSITY INFORMATION TECHNOLOGY B. TECH. SEMESTER-VI 2CEIT6PE7: ETHICAL HACKING

# PRACTICAL - 1

# Aim: Virtual Lab Building using VMWare workstation.

Install VMware

The following OSs are required to install:

- 1. Kali linux
- 2. Metasploitable 2
- 3. Metasploitable 3
- 4. Windows 10
- 5. Windows 7

Note: Set the Network adapter to the NAT network and enable the DHCP so, VMware automatically gives IP addresses to each machine. To enable DHCP to go to Virtual Network Editor with administrator privileges.

# 1. Kali Linux



Name: Sanjay Sukhwani

Enrollment Number: 20012021053

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\_\_(kali⊛kali)-[~] \_\$

— 192.168.235.128 ping statistics — 10 packets transmitted, 10 received, 0% packet loss, time 9198ms rtt min/avg/max/mdev = 0.057/0.085/0.220/0.046 ms

## 2. Metasploitable 2

```
* Starting deferred execution scheduler atd

* Starting periodic command scheduler crond

* Starting Tomcat servlet engine toncat5.5

* Starting ueb server apache2

* Running local boot scripts (/etc/rc.local)
nohup: appending output to 'nohup.out'

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[ OK ]

Warning: Never expose this UM to an untrusted network!

Contact: msfdev[at]metasploit.com

Login with msfadmin/msfadmin to get started

metasploitable login:
```

Name: Sanjay Sukhwani

Enrollment Number: 20012021053

# 3. Metasploitable 3

```
Ubuntu 14.04.6 LTS metasploitable3-ubi404 tty1
metasploitable3-ubi404 login: vagrant
Passuord:
Last login: Sun Jan 15 19:47:23 UTC 2023 on tty1
Welcome to Ubuntu 14.04.6 LTS (GNU/Linux 3.13.0-170-generic x86_64)

* Documentation: https://help.ubuntu.com/
hew release 16.04.7 LTS available.
Run 'do-release-upiade' to upgrande to it.
vagrant@metasploitable3-ubi404:~$

usgrant@metasploitable3-ubi404:~$
```

Name: Sanjay Sukhwani

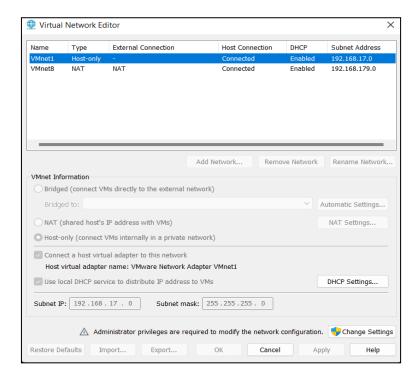
Enrollment Number: 20012021053

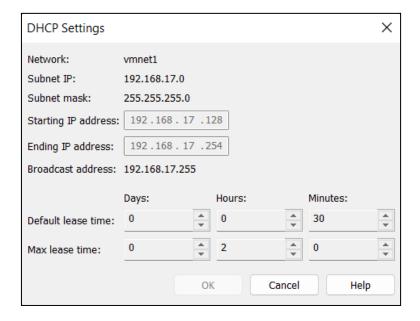
```
uagrant@metasploitable3-ub1404:"$ ping 192.168.235.130
PING 192.168.235.130 (192.168.235.130) 56(04) bytes of data.
6t bytes from 192.168.235.130: icmp_scqt=1 tt1=64 time=0.055 ms
6t bytes from 192.168.235.130: icmp_scqt=3 tt1=64 time=0.066 ms
6t bytes from 192.168.235.130: icmp_scqt=3 tt1=64 time=0.066 ms
6t bytes from 192.168.235.130: icmp_scqt=5 tt1=64 time=0.030 ms
6t bytes from 192.168.235.130: icmp_scqt=5 tt1=64 time=0.030 ms
6t bytes from 192.168.235.130: icmp_scqt=7 tt1=64 time=0.030 ms
6t bytes from 192.168.235.130: icmp_scqt=7 tt1=64 time=0.030 ms
6t bytes from 192.168.235.130: icmp_scqt=7 tt1=64 time=0.042 ms
6t bytes from 192.168.235.130: icmp_scqt=3 tt1=64 time=0.043 ms
6t bytes from 192.168.235.130: icmp_scqt=3 tt1=64 time=0.043 ms
6t bytes from 192.168.235.130: icmp_scqt=3 tt1=64 time=0.039 ms
6t bytes from 192.168.235.130: icmp_scqt=3 tt1=64 ttm=0.039 ms
6t bytes from 192.
```

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# Virtual Network Editor:





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### **Definitions:**

# 1. If config/Ipconfig:

The utilities known as ipconfig (in Windows), and ifconfig (in Unix/Linux/Mac) will display the current configuration of TCP/IP on a given workstation—including the current IP address, DNS configuration, Windows Internet Naming Service (WINS) configuration, and default gateway.

• Syntax (Windows): ipconfig

• Syntax (Unix/Linux/Mac): ifconfig

# 2. **Ping**:

A ping (Packet Internet or Inter-Network Groper) is a basic Internet program that allows a user to test and verify if a particular destination IP address exists and can accept requests in computer network administration.

• **Syntax**: ping <website/Host-Address>

### 3. NAT Connection:

NAT stands for network address translation. It's a way to map multiple local private addresses to a public one before transferring the information. Organizations that want multiple devices to employ a single IP address use NAT, as do most home routers.

# 4. Bridged Connection:

Bridged networking connects a virtual machine to a network by using the network adapter on the host system. If the host system is on a network, bridged networking is often the easiest way to give the virtual machine access to that network.

# 5. Host Only Connection:

Host-only networking is useful if you need to set up an isolated virtual network. In a host-only network, the virtual machine and the host virtual network adapter are connected to a private Ethernet network. The network is completely contained within the host system.

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