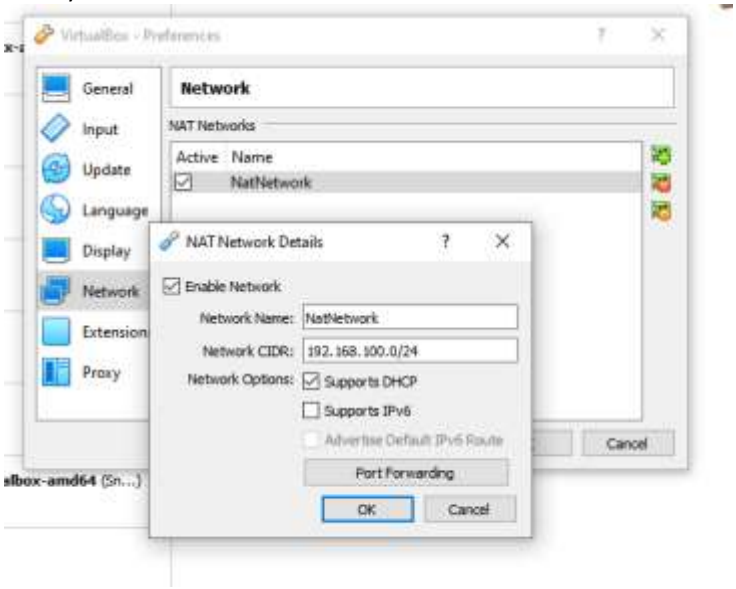
CSM – Exam

Questions-1 Scanning

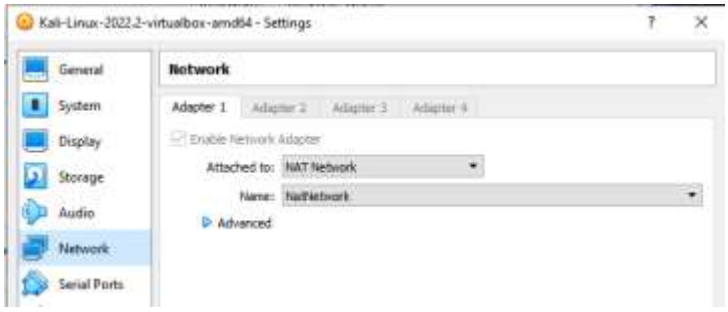
Task-1 Step-up the lab in your local system after download it.

Task-2 Open the system and setup both kali and Windows system into Host-only network for better networking connection else use NAT connection.

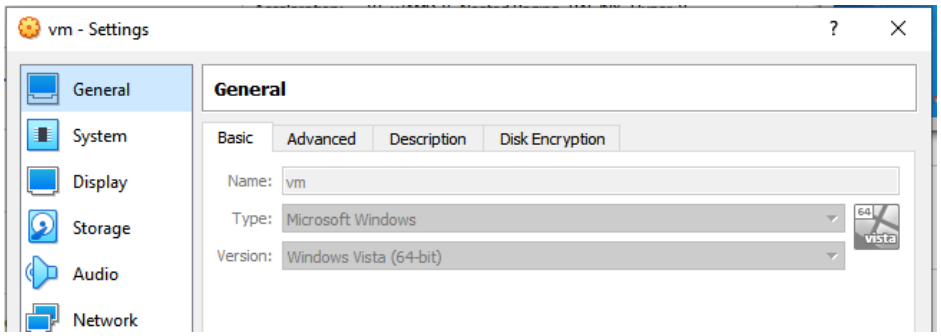
a) Set NAT Network “NatNetwork” on VirtualBox



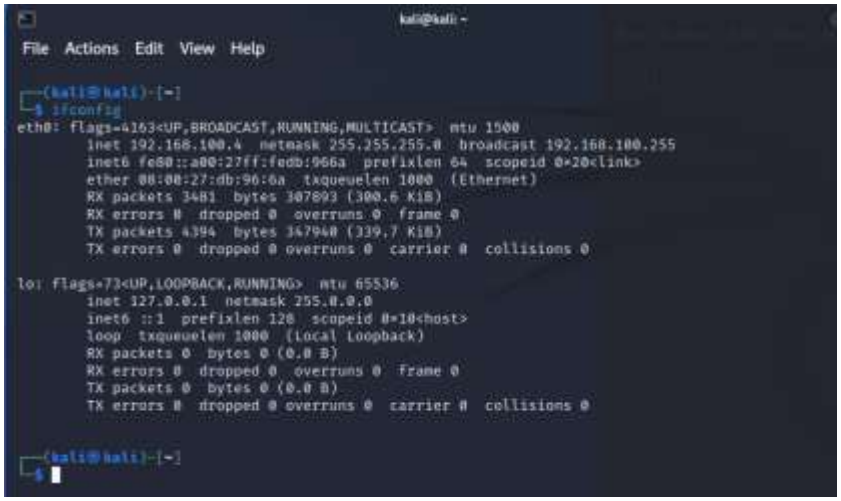
b) Attach Kali VM to “NatNetwork”



c) Attach Win 7 VM to “NatNetwork”

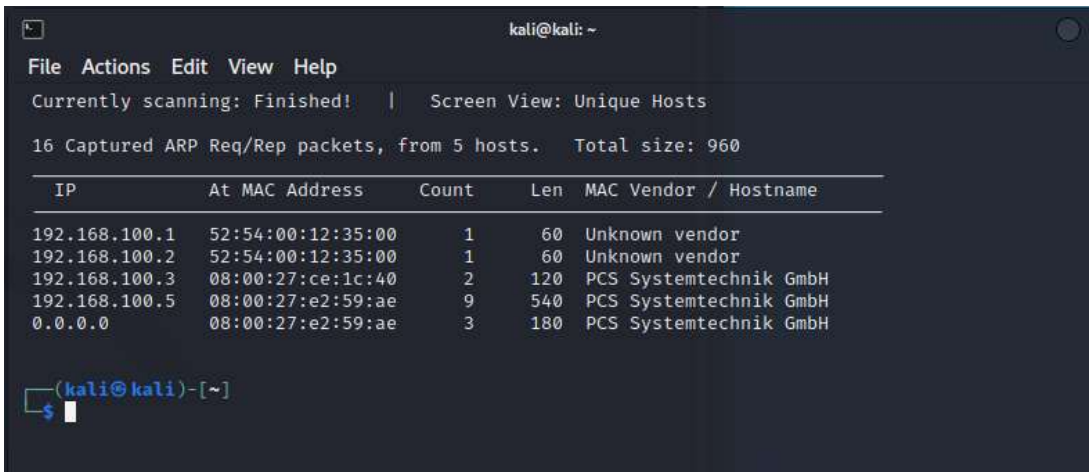


d) Check Kali VM IP Address

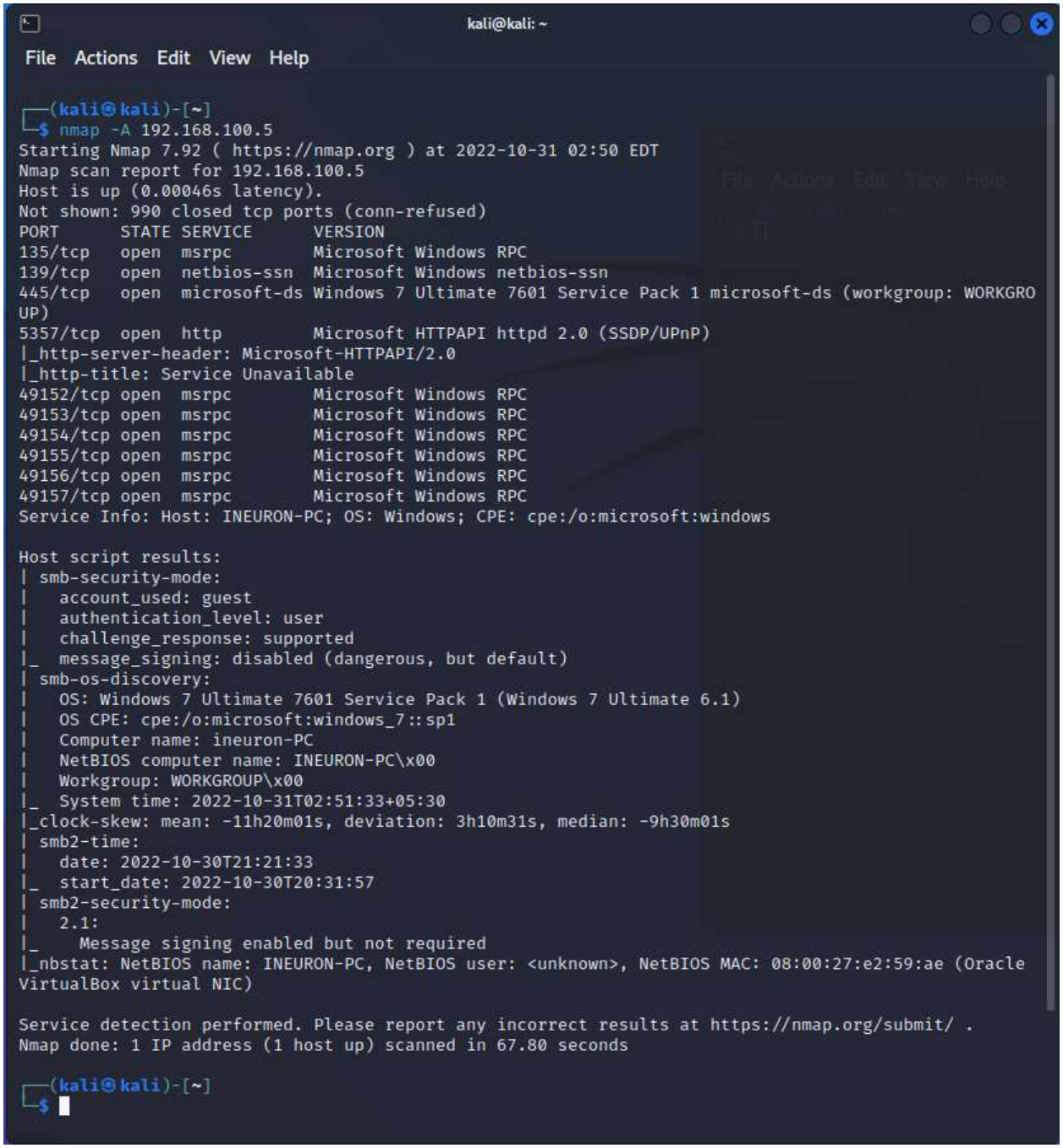


Task-3 Now Scan for the Target IP address and perform Network scanning to perform the System attack

a) Run netdiscover from Kali VM to find the Win 7 VM IP Address



b) Run nmap –A 192.168.100.5 is the Win 7 VM and to discover open ports



Questions-2 Exploitation

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

Questions-3 Password Attack

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

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

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

Part B - Investigation Phase

Now you understand the offensive Hacking approach in secure environment, that's the part of role we follow as an Ethical Hacker Role in the Industry. Not its time to work on Investigation part.
As after the hacking activity is done, how we analysis the hacking event, that will be done in forensic part, so here we will use a PCAP file available with the Paper attached.

Do take the .pcap file and analysis with Wireshark Tool

Question-6 Wireshark Analysis

Provide some below answer for the same activity you perform:

q-1 There is a very popular tool by Van Hauser which can be used to brute force a series of services. What is the name of this tool?

Answer: Hydra

q-2 The attacker is trying to log on with a specific username. What is the username?

Answer: jenny

No.	Time	Source	Destination	Protocol	Length	Info
67	0.037524815	192.168.0.115	192.168.0.147	FTP	88	Response: 220 Hello FTP World!
69	0.037745187	192.168.0.115	192.168.0.147	FTP	88	Response: 220 Hello FTP World!
71	0.038069047	192.168.0.115	192.168.0.147	FTP	88	Response: 220 Hello FTP World!
73	0.038475543	192.168.0.115	192.168.0.147	FTP	88	Response: 220 Hello FTP World!
75	0.038580229	192.168.0.115	192.168.0.147	FTP	88	Response: 220 Hello FTP World!
77	0.039483034	192.168.0.115	192.168.0.147	FTP	88	Response: 220 Hello FTP World!
79	0.040483793	192.168.0.115	192.168.0.147	FTP	88	Response: 220 Hello FTP World!
81	0.354319120	192.168.0.147	192.168.0.115	FTP	78	Request: USER jenny
82	0.354470850	192.168.0.147	192.168.0.115	FTP	78	Request: USER jenny
83	0.354473399	192.168.0.147	192.168.0.115	FTP	78	Request: USER jenny
85	0.355079995	192.168.0.115	192.168.0.147	FTP	100	Response: 331 Please specify the password.
89	0.355447445	192.168.0.115	192.168.0.147	FTP	100	Response: 331 Please specify the password.
91	0.355447477	192.168.0.115	192.168.0.147	FTP	100	Response: 331 Please specify the password.
93	0.355886347	192.168.0.147	192.168.0.115	FTP	78	Request: USER jenny
94	0.356054530	192.168.0.147	192.168.0.115	FTP	78	Request: USER jenny
95	0.356130452	192.168.0.147	192.168.0.115	FTP	78	Request: USER jenny
96	0.357204265	192.168.0.147	192.168.0.115	FTP	78	Request: USER jenny
97	0.357726461	192.168.0.147	192.168.0.115	FTP	78	Request: USER jenny
98	0.358053889	192.168.0.147	192.168.0.115	FTP	78	Request: USER jenny
99	0.358814186	192.168.0.147	192.168.0.115	FTP	78	Request: USER jenny
100	0.359034811	192.168.0.147	192.168.0.115	FTP	78	Request: USER jenny
101	0.359380463	192.168.0.147	192.168.0.115	FTP	78	Request: USER jenny
104	0.359714705	192.168.0.115	192.168.0.147	FTP	100	Response: 331 Please specify the password.

q-3 What is the user's password we found in the analysis?

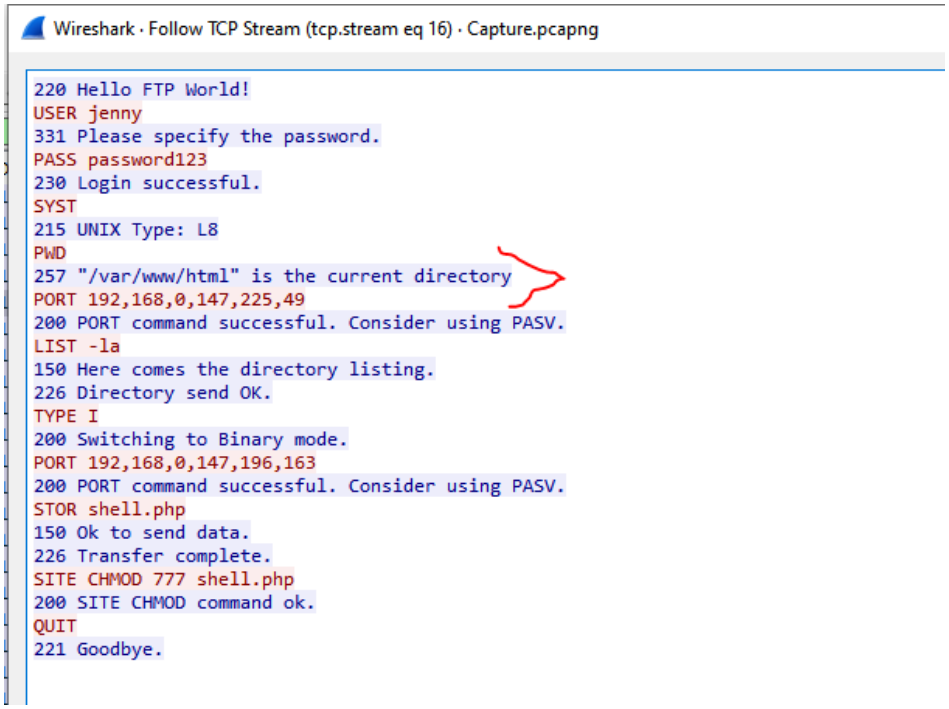
Answer: password123

Wireshark · Follow TCP Stream (tcp.stream eq 16) · Capture.pcapng

```
220 Hello FTP World!
USER jenny
331 Please specify the password.
PASS password123
230 Login successful.
SYST
215 UNIX Type: L8
PWD
257 "/var/www/html" is the current directory
PORT 192,168,0,147,225,49
200 PORT command successful. Consider using PASV.
LIST -la
150 Here comes the directory listing.
226 Directory send OK.
TYPE I
200 Switching to Binary mode.
PORT 192,168,0,147,196,163
200 PORT command successful. Consider using PASV.
STOR shell.php
150 Ok to send data.
226 Transfer complete.
SITE CHMOD 777 shell.php
200 SITE CHMOD command ok.
QUIT
221 Goodbye.
```

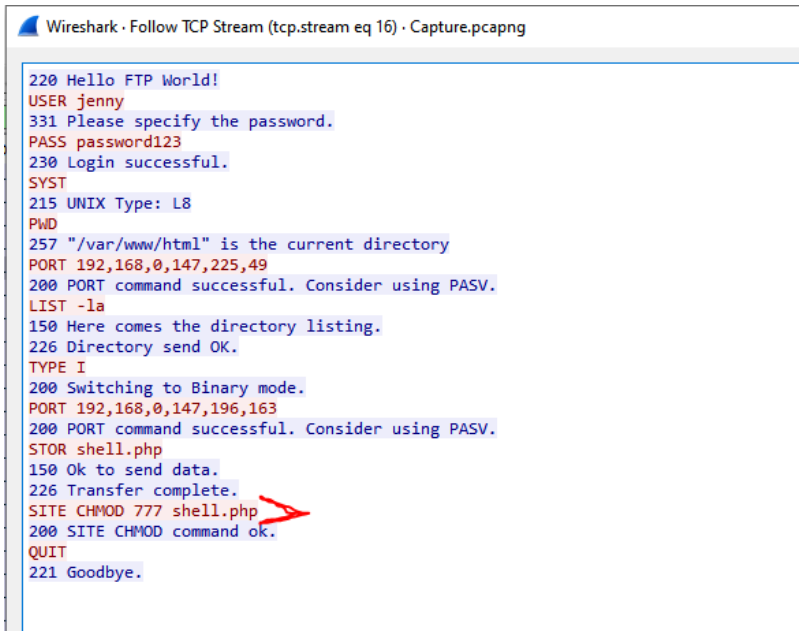
q-4 What is the current FTP working directory in the analysis process?

Answer: /var/www/html



q-5 The attacker uploaded a backdoor. What is the backdoor's filename?

Answer: shell.php

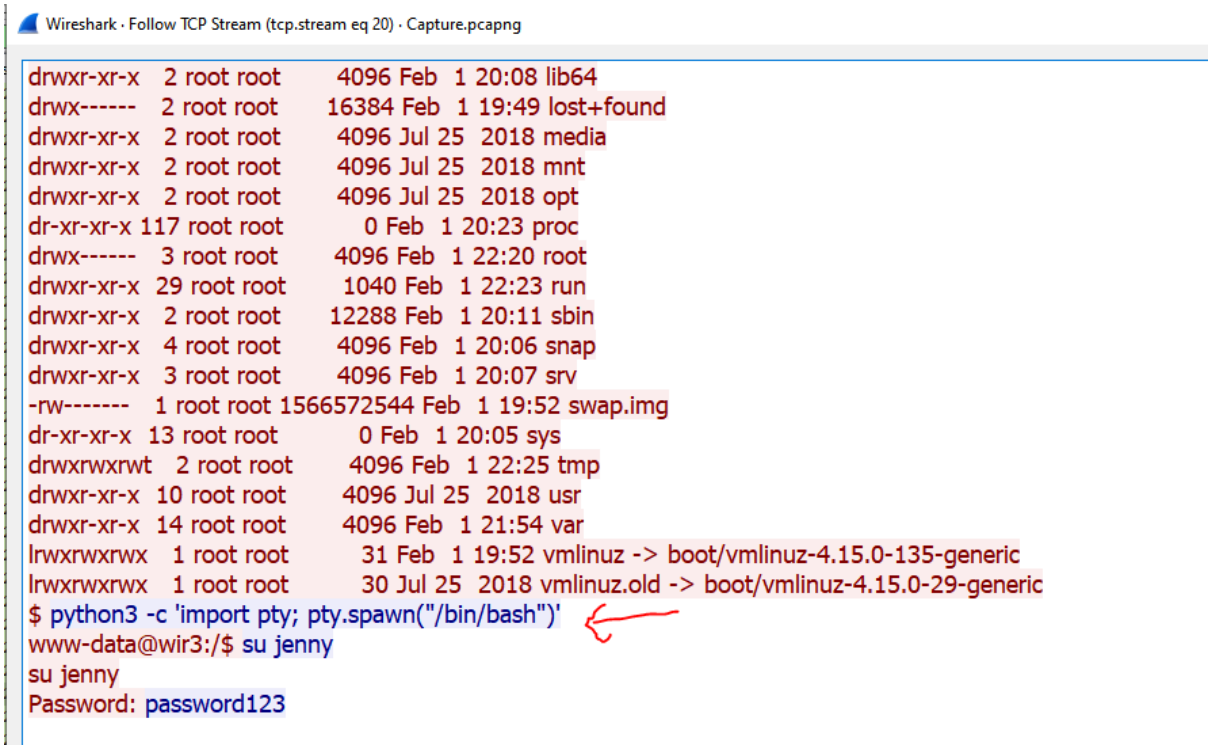


q-6 What is the computer's hostname?

Answer : wir3

q-7 Which command did the attacker execute to spawn a new TTY shell? here we asking about the python command we use to invoke an interactive

Answer: $ python3 -c 'import pty; pty.spawn("/bin/bash")'



q-8 The project can be used to install a stealthy backdoor on the system. It can be very hard to detect. What is this type of backdoor called?

Answer: rootkit