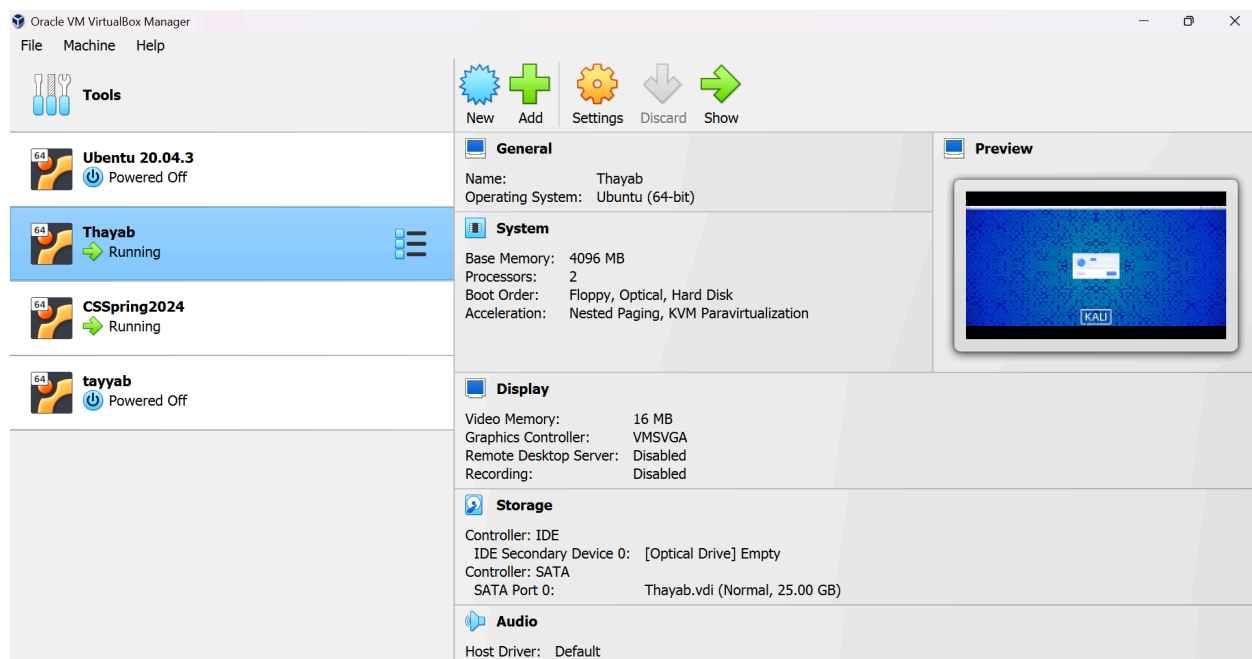


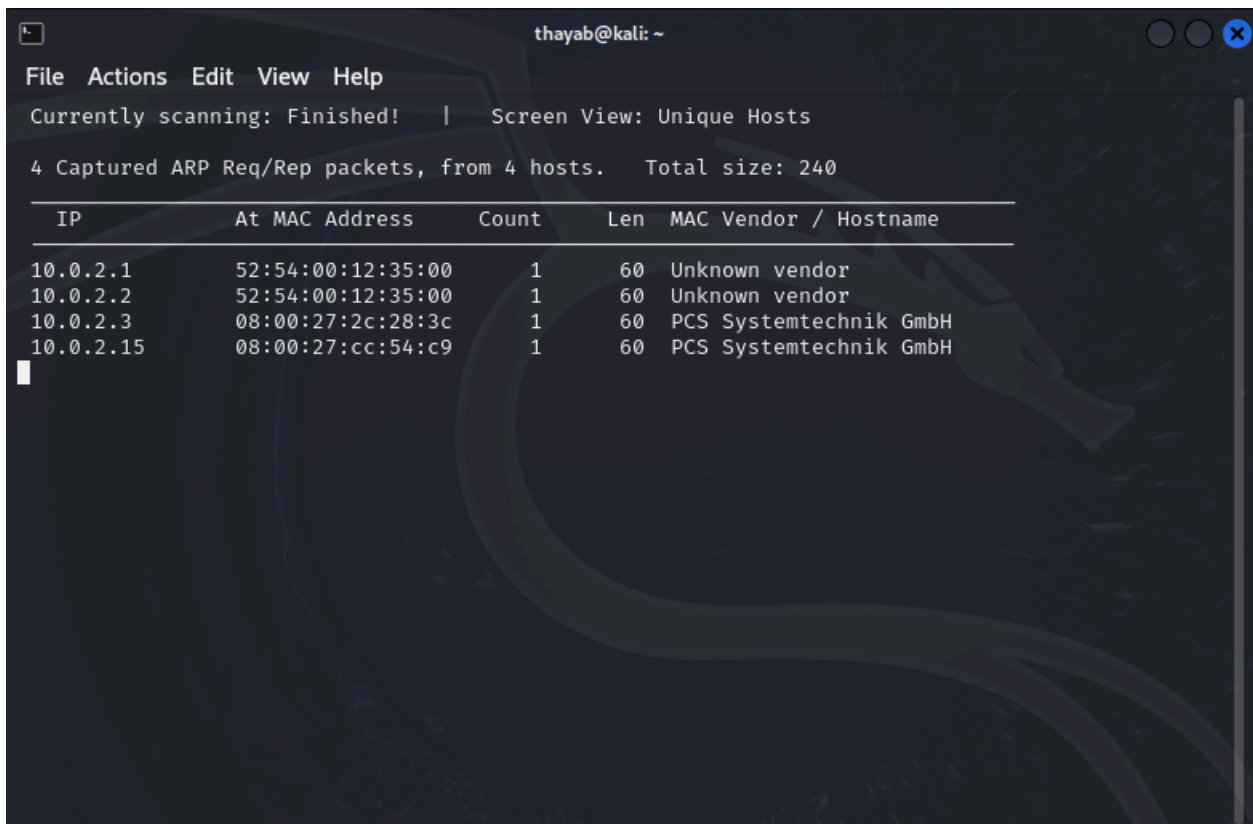
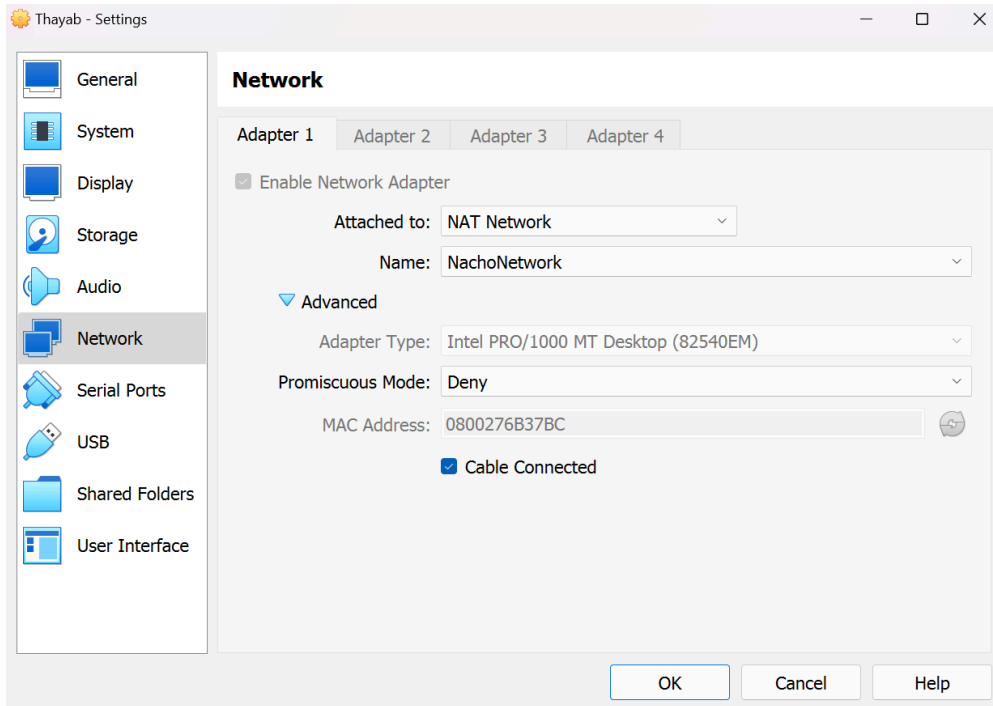
Tayyab Nadeem  
21L-5830

# Information Security Assignment # 1

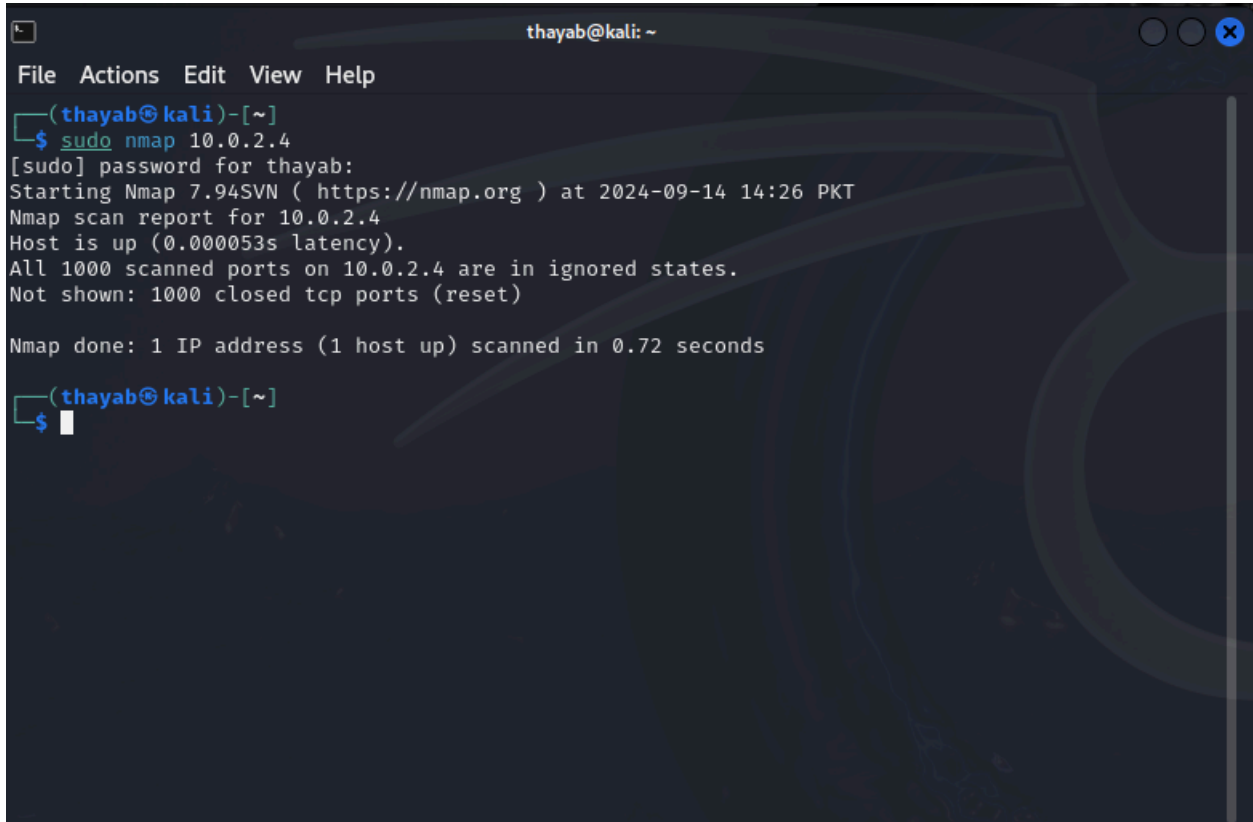
## 1 Screenshot of VirtualBox after adding both VMs:



After running the `sudo netdiscover` command in the VM, I checked the MAC address and compared it with the one found in the CSSpringFile.



To identify open ports and running services, utilize the **sudo nmap** command.

A terminal window titled 'thayab@kali: ~' with a menu bar (File, Actions, Edit, View, Help). The prompt is '(thayab@kali)-[~]'. The user enters '\$ sudo nmap 10.0.2.4'. The terminal shows the command execution output: '[sudo] password for thayab:', 'Starting Nmap 7.94SVN ( https://nmap.org ) at 2024-09-14 14:26 PKT', 'Nmap scan report for 10.0.2.4', 'Host is up (0.000053s latency).', 'All 1000 scanned ports on 10.0.2.4 are in ignored states.', 'Not shown: 1000 closed tcp ports (reset)', and 'Nmap done: 1 IP address (1 host up) scanned in 0.72 seconds'. The prompt returns to '(thayab@kali)-[~]' with a new '\$' prompt below it.

```
(thayab@kali)-[~]
$ sudo nmap 10.0.2.4
[sudo] password for thayab:
Starting Nmap 7.94SVN ( https://nmap.org ) at 2024-09-14 14:26 PKT
Nmap scan report for 10.0.2.4
Host is up (0.000053s latency).
All 1000 scanned ports on 10.0.2.4 are in ignored states.
Not shown: 1000 closed tcp ports (reset)

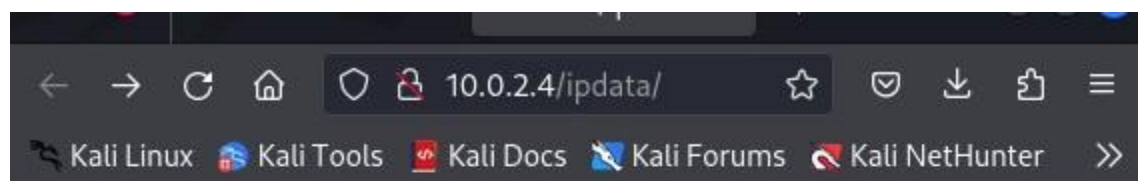
Nmap done: 1 IP address (1 host up) scanned in 0.72 seconds

(thayab@kali)-[~]
$
```

## Utilizing Dirb for dictionary-based enumeration

```
thayab@kali: ~  
(thayab@kali)~  
$ dirb http://10.0.2.4/  
  
-----  
DIRB v2.22  
By The Dark Raver  
-----  
  
START_TIME: Wed Sep  9 00:45:17 2024  
URL_BASE: http://10.0.2.4/  
WORDLIST_FILES: /usr/share/dirb/wordlists/common.txt  
  
-----  
  
GENERATED WORDS: 4612  
  
---- Scanning URL: http://10.0.2.4/ ----  
+ http://10.0.2.4/index.php (CODE:301|SIZE:0)  
==> DIRECTORY: http://10.0.2.4/ipdata/  
+ http://10.0.2.4/server-status (CODE:403|SIZE:296)  
==> DIRECTORY: http://10.0.2.4/wp-admin/  
==> DIRECTORY: http://10.0.2.4/wp-content/  
==> DIRECTORY: http://10.0.2.4/wp-includes/  
+ http://10.0.2.4/xmlrpc.php (CODE:405|SIZE:42)  
  
---- Entering directory: http://10.0.2.4/ipdata/ ----  
(!) WARNING: Directory IS LISTABLE. No need to scan it.  
      (Use mode '-w' if you want to scan it anyway)  
  
---- Entering directory: http://10.0.2.4/wp-admin/ ----  
+ http://10.0.2.4/wp-admin/admin.php (CODE:302|SIZE:0)  
==> DIRECTORY: http://10.0.2.4/wp-admin/css/  
==> DIRECTORY: http://10.0.2.4/wp-admin/images/  
==> DIRECTORY: http://10.0.2.4/wp-admin/includes/  
+ http://10.0.2.4/wp-admin/index.php (CODE:302|SIZE:0)  
==> DIRECTORY: http://10.0.2.4/wp-admin/js/  
==> DIRECTORY: http://10.0.2.4/wp-admin/maint/  
==> DIRECTORY: http://10.0.2.4/wp-admin/network/  
==> DIRECTORY: http://10.0.2.4/wp-admin/user/  
  
---- Entering directory: http://10.0.2.4/wp-content/ ----  
+ http://10.0.2.4/wp-content/index.php (CODE:200|SIZE:0)  
==> DIRECTORY: http://10.0.2.4/wp-content/plugins/  
==> DIRECTORY: http://10.0.2.4/wp-content/themes/
```

Once completed, the first file saved is the ipdata file. When I clicked on it, it opened a new web page.

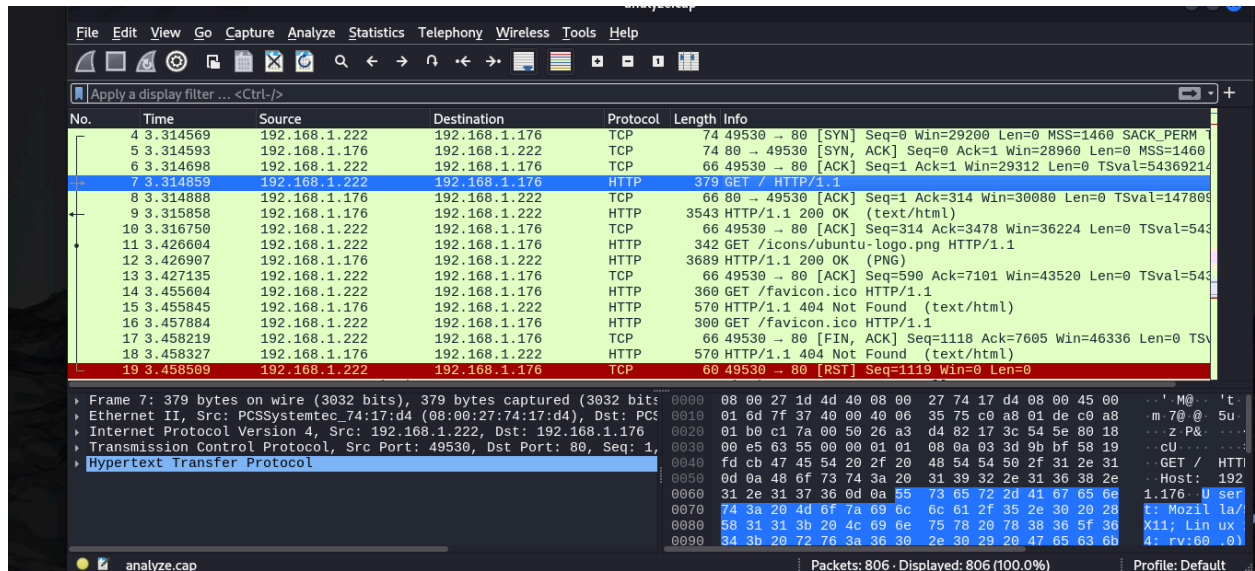


## Index of /ipdata

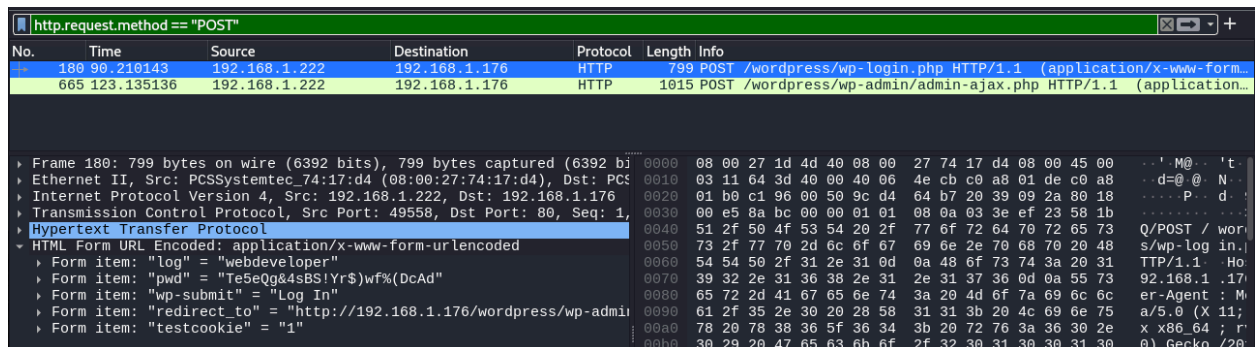
<u>Name</u>	<u>Last modified</u>	<u>Size</u>	<u>Description</u>
 <a href="#">Parent Directory</a>		-	
 <a href="#">analyze.cap</a>	2018-10-30 09:14	2.8M	

*Apache/2.4.29 (Ubuntu) Server at 10.0.2.4 Port 80*

I discovered a file named 'analyze.cap' here, which I downloaded and opened in Wireshark. It contained a directory of all the packets associated with this website.



I added a filter on POST requests, which are used to login. From there I found the username and password



Then used the provided username and password to log into the website, and it was successful.

