20MCA136 - NETWORKING AND SYSTEM ADMISNISTRATION LAB

EXTERNAL LAB EXAMINATION - SEPTEMBER, 2021

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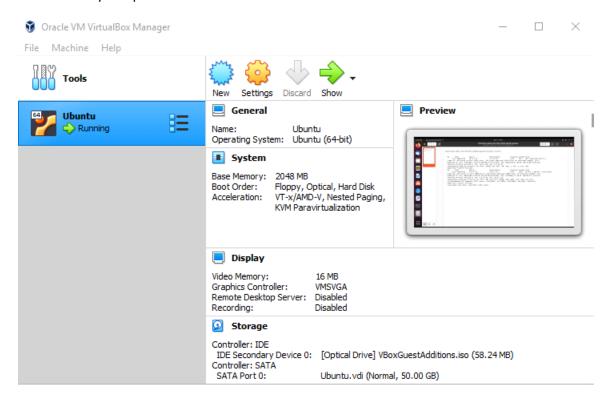
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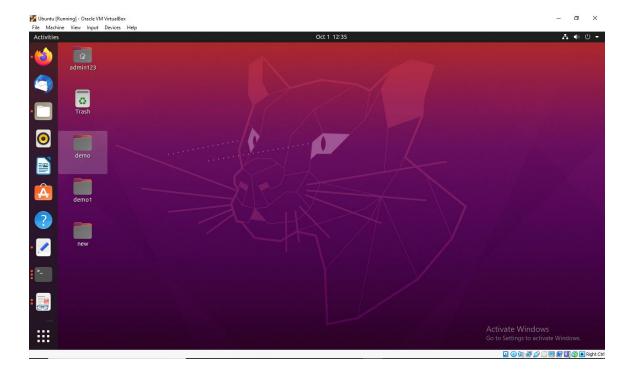
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MCA2020-22

https://github.com/brahmaduttan/External_Lab_Exam

1. Successfully completed Installation of Linux Ubuntu OS on Virtual box on Windows





3. To get Information about the sites

1) \$ nslookup -type=soa iitm.ac.in

```
admin123@admin123-VirtualBox:~$ nslookup -type=soa iitm.ac.in

Server: 127.0.0.53

Address: 127.0.0.53#53

Non-authoritative answer:
iitm.ac.in
    origin = dns1.iitm.ac.in
    mail addr = root.dns1.iitm.ac.in
    serial = 2021092902
    refresh = 10800
    retry = 3600
    expire = 1814400
    minimum = 86400

Authoritative answers can be found from:
```

2) \$ nslookup -type=soa google.com

4. Create a shell script extension.sh

```
dir=/home/admin123/Desktop/new
for file in $dir/*
do
mv $file $file.new
done
```

echo "extension are changed to .new"

```
admin123@admin123-VirtualBox:~/Desktop/demo$ chmod +x extension.sh
admin123@admin123-VirtualBox:~/Desktop/demo$ ./extension.sh
extension are changed to .new
```

5. Install wireshark in Virtual box ubuntu through command

\$sudo apt install wireshark

and

seacrh link spiderline.in

Analysing the Request and Respond from the client and server

1. HTTP 1.1

2. language used en.US

-	40 5.950690897	10.0.2.15	5.2.91.41	НТТР	466 GET /js/jquery-1.9.1.min.js HTTP/1.1	
	42 5.952589549	10.0.2.15	5.2.91.41	HTTP	461 GET /js/owl.carousel.js HTTP/1.1	
1	55 6.142456977	10.0.2.15	5.2.91.41	HTTP	470 GET /js/modernizr.customQuote.js HTTP/1.1	
1	59 6.143707691	10.0.2.15	5.2.91.41	HTTP	379 GET /css/share.css HTTP/1.1	
-	63 6.149094996	10.0.2.15	5.2.91.41	HTTP	469 GET /js/modernizr-customcapt.js HTTP/1.1	
-	67 6.165828453	10.0.2.15	5.2.91.41	HTTP	460 GET /js/socialCircle.js HTTP/1.1	
1	01 6 217002006	5 2 01 /1	10 0 2 15	UTTD	EA10 UTTD/1 1 200 OK (application/iavaccript)	
	Host: spiderline.in\r\n					
	User-Agent: Mozilla/5.0 (X11; Ubuntu; Linux x86_64; rv:92.0) Gecko/20100101 Firefox/92.0\r\n					
	Accept: */*\r\n					
	Accept-Language: en-US,en;q=0.5\r\n					
	Accept-Encoding: gzip, deflate\r\n					
	Connection: keep-alive\r\n					
	Referer: http://spiderline.in/home.php\r\n					
	If-Modified-Since: Sat, 03 Nov 2018 05:16:24 GMT\r\n					
	If-None-Match: "169d5-579bbc0d954b8-gzip"\r\n					
	Cache-Control: max-age=0\r\n					

3. Source IP (System(VirtualBox)) - 10.0.2.15

Destination IP (Server) - 5.2.91.41

/tmp/wireshark_enp0s3_20211001122942_apvKRn.pcapng 901 total packets, 140 shown

```
No. Time Source Destination Protocol Length Info
15 5.409414218 10.0.2.15 5.2.91.41 HTTP 452 GET /home.php HTTP/1.1
Frame 15: 452 bytes on wire (3616 bits), 452 bytes captured (3616 bits) on interface enp0s3, id 0
Ethernet II, Src: PcsCompu_71:10:4f (08:00:27:71:10:4f), Dst: RealtekU_12:35:02 (52:54:00:12:35:02)
Internet Protocol Version 4, Src: 10.0.2.15, Dst: 5.2.91.41
Transmission Control Protocol, Src Port: 54938, Dst Port: 80, Seq: 1, Ack: 1, Len: 398
Hypertext Transfer Protocol
No. Time Source Destination Protocol Length Info
33 5.710570214 5.2.91.41 10.0.2.15 HTTP 1011 HTTP/1.1 200 OK (text/html)
Frame 33: 1011 bytes on wire (8088 bits), 1011 bytes captured (8088 bits) on interface enp0s3, id 0
Ethernet II, Src: RealtekU_12:35:02 (52:54:00:12:35:02), Dst: PcsCompu_71:10:4f (08:00:27:71:10:4f)
Internet Protocol Version 4, Src: 5.2.91.41, Dst: 10.0.2.15
Transmission Control Protocol, Src Port: 80, Dst Port: 54938, Seq: 8821, Ack: 399, Len: 957
[5 Reassembled TCP Segments (9777 bytes): #25(1260), #27(1260), #29(5840), #31(460), #33(957)]
Hypertext Transfer Protocol
Line-based text data: text/html (1159 lines)
```