

SECTION 1

I opened **Command Prompt** and typed **ipconfig**, which displayed the basic information about the vWorkstation's network adapter. From there, I typed **ipconfig /all** to display detailed information about the vWorkstation.

```
Administrator: Command Prompt
Assessing the Network with Common Security Tools (3e)
vWorkstation
2022-02-11 21:59:17
Emmanuel Taveras

IP Routing Enabled. . . . . : No
WINS Proxy Enabled. . . . . : No
DNS Suffix Search List. . . . : securelabsondemand.com

Network adapter TrueLab:
Connection-specific DNS Suffix . :
Description . . . . . : vmxnet3 Ethernet Adapter #2
Physical Address. . . . . : 00-50-56-AB-75-F9
DHCP Enabled. . . . . : No
Autoconfiguration Enabled . . . : Yes
IPv4 Address. . . . . : 192.168.73.4(Preferred)
Subnet Mask . . . . . : 255.255.255.0
Default Gateway . . . . . : 192.168.73.254
NetBIOS over Tcpip. . . . . : Disabled

Ethernet adapter Student:
Connection-specific DNS Suffix . :
Description . . . . . : vmxnet3 Ethernet Adapter #3
Physical Address. . . . . : 00-50-56-AB-F1-C5
DHCP Enabled. . . . . : No
Autoconfiguration Enabled . . . : Yes
IPv4 Address. . . . . : 172.30.0.2(Preferred)
Subnet Mask . . . . . : 255.255.255.0
Default Gateway . . . . . : 172.30.0.1
DNS Servers . . . . . : 172.30.0.10
NetBIOS over Tcpip. . . . . : Enabled

C:\Users\Administrator>
```

Switched to **TargetWindow01** from the virtual machine drop down menu. I repeated the previous steps.

```
Administrator: Command Prompt
Assessing the Network with Common Security Tools (3e)
TargetWindows01
2022-02-11 22:01:44
Emmanuel Taveras

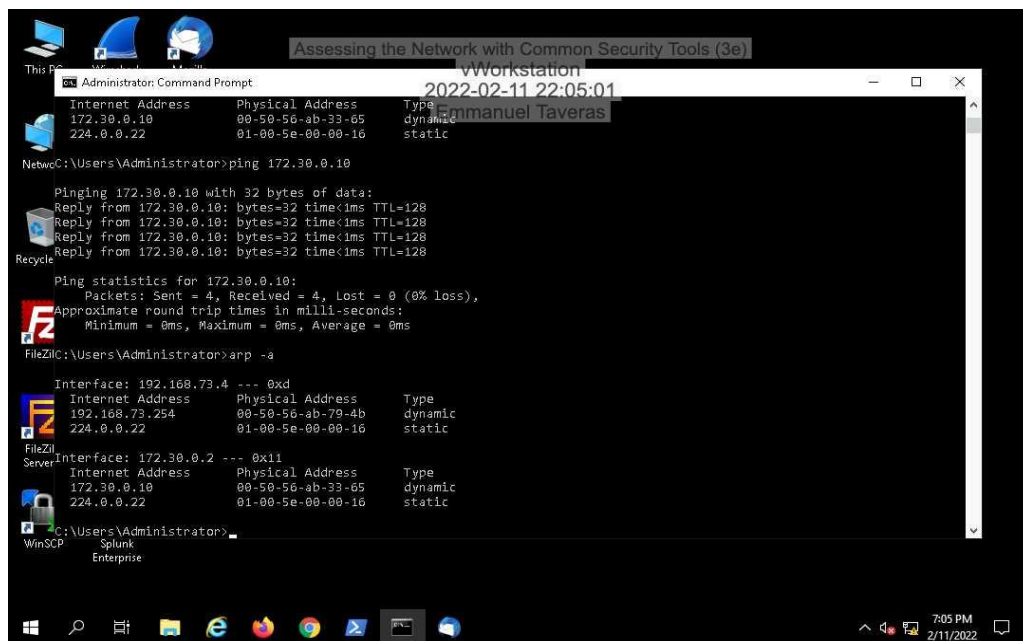
Ethernet adapter TrueLab:
Connection-specific DNS Suffix . :
Description . . . . . : vmxnet3 Ethernet Adapter
Physical Address. . . . . : 00-50-56-AB-64-89
DHCP Enabled. . . . . : No
Autoconfiguration Enabled . . . : Yes
IPv4 Address. . . . . : 192.168.73.2(Preferred)
Subnet Mask . . . . . : 255.255.255.0
Default Gateway . . . . . : 192.168.73.254
NetBIOS over Tcpip. . . . . : Disabled

Ethernet adapter Student:
Connection-specific DNS Suffix . :
Description . . . . . : vmxnet3 Ethernet Adapter #3
Physical Address. . . . . : 00-50-56-AB-33-65
DHCP Enabled. . . . . : No
Autoconfiguration Enabled . . . : Yes
Link-local IPv6 Address . . . . : fe80::5446:64a0:4117:6de%5(Preferred)
IPv4 Address. . . . . : 172.30.0.10(Preferred)
Subnet Mask . . . . . : 255.255.255.0
Default Gateway . . . . . : 172.30.0.1
DHCPv6 IAID . . . . . : 197792726
DHCPv6 Client DUID. . . . . : 00-01-00-01-29-98-09-34-00-50-56-AB-64-89
DNS Servers . . . . . : 127.0.0.1
NetBIOS over Tcpip. . . . . : Enabled

C:\Users\Administrator>
```

After switching back to the vWorkstation, I opened the command prompt and entered the **arp** command. This allowed me to view the current ARP cache, which showed the IP address, MAC address, and entry type (dynamic or static) for each device. Next, I entered **arp -d** to clear the cache, followed by **arp -a** to display the now-updated, cleared cache.

To test connectivity, I used the **ping** command to ping the TargetWindows01 machine at 172.30.0.10. After the ping was successful, I once again entered the **arp -a** command to observe that the ARP cache had been updated with the information for the TargetWindows01 machine.



After performing the command-line reconnaissance, I opened the **NetworkAssessment** file in OpenOffice Calc. Using the information gathered from the ipconfig and arp utilities, I completed the **LAN** tab of the spreadsheet.

