

Question 01

Command: ipconfig

```
Wireless LAN adapter Wi-Fi:

    Connection-specific DNS Suffix  . : 
    Link-local IPv6 Address . . . . . : fe80::c681:646e:2aa2:2de0%20
    IPv4 Address. . . . . : 192.168.100.40
    Subnet Mask . . . . . : 255.255.255.0
    Default Gateway . . . . . : fe80::1%20
                                192.168.100.1
```

Question 02

Command: getmac /v

```
C:\WINDOWS\system32>getmac /v

Connection Name Network Adapter Physical Address Transport Name
-----
Ethernet Intel(R) Ethern 54-E1-AD-1E-58-E7 Media disconnected
VMware Network VMware Virtual 00-50-56-C0-00-08 \Device\Tcpip_{5EDF24F4-FBE9-44B7-9E3A-3A24FCEB6EB6}
VMware Network VMware Virtual 00-50-56-C0-00-01 \Device\Tcpip_{E59D47B7-E71B-4EC0-8C0E-231FA488BFBE}
Wi-Fi Intel(R) Dual B F4-8C-50-22-98-C7 \Device\Tcpip_{F2081D02-D9C4-4CB0-8CC8-01B45DAEF11F}
```

Yes dhcp server is on because its necessary to find ip addresses.

Question 03

Command: hostname

```
C:\WINDOWS\system32>hostname
DESKTOP-86USMRL
```

Question 04

Reason: The computer may not have a internet connection or maybe hostname is incorrect.

```
C:\WINDOWS\system32>ping google.com

Pinging google.com [142.250.201.142] with 32 bytes of data:
Reply from 142.250.201.142: bytes=32 time=355ms TTL=1
Reply from 142.250.201.142: bytes=32 time=358ms TTL=1
Reply from 142.250.201.142: bytes=32 time=346ms TTL=1

Ping statistics for 142.250.201.142:
    Packets: Sent = 3, Received = 3, Lost = 0 (0% loss),
    Approximate round trip times in milli-seconds:
        Minimum = 346ms, Maximum = 358ms, Average = 353ms
```

Question 05

```
C:\WINDOWS\system32>getmac /v
```

Connection Name	Network Adapter	Physical Address	Transport Name
Ethernet	Intel(R) Ethern	54-E1-AD-1E-58-E7	Media disconnected
VMware Network	VMware Virtual	00-50-56-C0-00-08	\Device\Tcpip_{5EDF24F4-FBE9-44B7-9E3A-3A24FCEB6EB6}
VMware Network	VMware Virtual	00-50-56-C0-00-01	\Device\Tcpip_{E59D47B7-E71B-4EC0-8C0E-231FA488BFBE}
Wi-Fi	Intel(R) Dual B	<u>F4-8C-50-22-98-C7</u>	\Device\Tcpip_{F2081D02-D9C4-4CB0-8CC8-01B45DAEF11F}

Question 06

Command: net share

```
C:\WINDOWS\system32>net share
```

Share name	Resource	Remark
C\$	C:\	Default share
D\$	D:\	Default share
IPC\$		Remote IPC
ADMIN\$	C:\WINDOWS	Remote Admin

The command completed successfully.

Question 07

Command: arp -a

```
Interface: 192.168.16.1 --- 0x7
Internet Address      Physical Address      Type
192.168.16.254        00-50-56-ed-b1-88    dynamic
192.168.16.255        ff-ff-ff-ff-ff-ff    static
224.0.0.22            01-00-5e-00-00-16    static
224.0.0.251          01-00-5e-00-00-fb    static
224.0.0.252          01-00-5e-00-00-fc    static
239.192.152.143       01-00-5e-40-98-8f    static
239.255.255.250       01-00-5e-7f-ff-fa    static
255.255.255.255       ff-ff-ff-ff-ff-ff    static

Interface: 192.168.233.1 --- 0x11
Internet Address      Physical Address      Type
192.168.233.254       00-50-56-f7-09-5c    dynamic
192.168.233.255       ff-ff-ff-ff-ff-ff    static
224.0.0.22            01-00-5e-00-00-16    static
224.0.0.251          01-00-5e-00-00-fb    static
224.0.0.252          01-00-5e-00-00-fc    static
239.192.152.143       01-00-5e-40-98-8f    static
239.255.255.250       01-00-5e-7f-ff-fa    static
255.255.255.255       ff-ff-ff-ff-ff-ff    static

Interface: 192.168.100.40 --- 0x14
Internet Address      Physical Address      Type
192.168.100.1         24-44-27-26-ab-e1    dynamic
192.168.100.255       ff-ff-ff-ff-ff-ff    static
224.0.0.22            01-00-5e-00-00-16    static
224.0.0.251          01-00-5e-00-00-fb    static
224.0.0.252          01-00-5e-00-00-fc    static
239.192.152.143       01-00-5e-40-98-8f    static
239.255.255.250       01-00-5e-7f-ff-fa    static
255.255.255.255       ff-ff-ff-ff-ff-ff    static
```

Question 08

Question 09

Command: ipconfig

```
Wireless LAN adapter Wi-Fi:

    Connection-specific DNS Suffix  . : 
    Link-local IPv6 Address . . . . . : fe80::c681:646e:2aa2:2de0%20
    IPv4 Address. . . . . : 192.168.100.40
    Subnet Mask . . . . . : 255.255.255.0
    Default Gateway . . . . . : fe80::1%20
                                192.168.100.1
```

Question 10

Command: tracert 8.8.8.8

```
C:\WINDOWS\system32>tracert 8.8.8.8

Tracing route to dns.google [8.8.8.8]
over a maximum of 30 hops:

  0  0 ms  0 ms  0 ms  192.168.100.1
  1  4 ms  35 ms  <1 ms  192.168.100.1
  2  6 ms  3 ms  3 ms  172.18.0.60
  3  5 ms  17 ms  3 ms  192.168.40.205
  4  *  *  *  Request timed out.
  5  *  *  *  Request timed out.
  6  7 ms  6 ms  7 ms  221.120.249.233
  7  19 ms  25 ms  50 ms  119.63.137.96
  8  5 ms  10 ms  7 ms  110.93.252.198
  9  17 ms  36 ms  10 ms  110.93.255.164
 10  40 ms  42 ms  24 ms  142.250.165.127
 11  19 ms  17 ms  15 ms  216.239.41.83
 12  21 ms  28 ms  19 ms  72.14.239.49
 13  16 ms  16 ms  18 ms  dns.google [8.8.8.8]

Trace complete.
```

Question 11

The name “blue machine” isn’t registered with a dns server.

Question 12

I would use an ethernet cable because it has RJ45 connectors and it is designed to transmit data quickly over short distances.

Question 13

Question 14

Question 15