

Usman Institute of Technology

Department of Computer Science

Course Code: CS222

Course Title: Data Communication & Computer Networks

Fall 2022

Lab 01

Objective:

This practical performance exposes the students to some of the diagnostic commands that are utilized to diagnose/troubleshoot the problems.

Student Information

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Assessment

Marks Obtained	
Remarks	
Signature	

Usman Institute of Technology

Department of Computer Science CS222 – Data Communication & Computer Networks

Lab 01

Instructions

- Come to the lab in time. Students who are late more than 20 minutes, will not be allowed to attend the lab.
- Students have to perform the examples and exercises by themselves.
- Lab work must be submitted on the same day it is performed.

1. Objective

This practical performance exposes the students to some of the diagnostic commands that are utilized to diagnose/troubleshoot the problems.

2. Labs Descriptions

1. Tracert: It is a utility that can be used to determine the route and hop count to a destination n. Example of tracert is shown below:

```
Command Prompt
                                                                                                                                             _ | | ×
C:\Documents and Settings\Farhan>cd..
C:\Documents and Settings>cd..
C:\>tracert www.yahoo.com
Tracing route to www.yahoo.com [87.248.112.181] over a maximum of 30 hops:
                                                           mywimax [192.168.15.1]
                                                                             148.wateen.net
                                                                             148.wateen.net
                                                                             130.wateen.net
                                                   ms
                                                          58-27-209-54.wateen.net [58.27.209

58-27-209-54.wateen.net [58.27.209

58-27-183-230.wateen.net [58.27.18]

tw31-static109.tw1.com [117.20.31.

tw128-static41.tw1.com [119.63.128]
                 ms
                                                   ms
                                              90
                 ms
                                  ms
                                                   ms
                  ms
                                  ms
                                                   ms
                                                   ms
                  ms
                                  ms
                                                           pos10-0.palermo9.pal.seabone.net
                                                   ms
                                  ms
                           306 ms
                                            306 ms
                                                           xe-11-0-0.franco31.fra.seabone.net [195.22.211.1
                                                          ge-1-3-0.pat1.dee.yahoo.com [80.81.192.115] so-2-0-0.pat1.ams.yahoo.com [66.196.65.144] UNKNOWN-66-196-65-X.yahoo.com [66.196.65.81] ae-1.msr1.ird.yahoo.com [66.196.67.231] te-7-4.bas-b1.ird.yahoo.com [87.248.101.103] www.yahoo.com [87.248.112.181]
                                            210 ms
                                            307
                  ms
                                  ms
                                   ms
                                                   ms
                                            271
307
307
                  ms
                                   ms
frace complete.
```

Figure 1: Tracert command being used to depict the hops required to reach the destination

```
Command Prompt - tracert 67.15.124.174

Microsoft Windows [Version 6.0.6001]
Copyright (c) 2006 Microsoft Corporation. All rights reserved.

C:\Users\fauzan\cd/
C:\\tag{C:\tag{Tracert 67.15.124.174}}

Tracing route to ev1s-67-15-124-174.theplanet.com [67.15.124.174]
over a maximum of 30 hops:

1 3 ms 1 ms 1 ms 192.168.1.1
2 5 ms 5 ms 10 ms 192.168.1.0.1
3 313 ms 325 ms 198 ms 119.160.0.8
```

Figure 2: Tracert command used with IP address instead of domain name

2. PING:

PING stands for "Packet Internet Groper" and it is a diagnostic tool that is used to check whether a host is reachable or not. Target can be either a name or IP address.

Syntax:

Ping www.uit.edu

Ping ip address (you can mention ip address instead of domain name)

Ping ip address or Domain name –n number of packets you want to sent

Ping –a ip address.(will first resolve ip to its domain name)

```
C:\>ping www.yahoo.com

Pinging www.yahoo-ht3.akadns.net [87.248.113.14] with 32 bytes of data:

Reply from 87.248.113.14: bytes=32 time=300ms TTL=48

Reply from 87.248.113.14: bytes=32 time=342ms TTL=48

Reply from 87.248.113.14: bytes=32 time=394ms TTL=48

Reply from 87.248.113.14: bytes=32 time=319ms TTL=48

Ping statistics for 87.248.113.14:

Packets: Sent = 4, Received = 4, Lost = 0 (0% loss),

Approximate round trip times in milli-seconds:

Minimum = 300ms, Maximum = 394ms, Average = 338ms
```

Figure 3: PING using domain name

```
C:\>ping 67.15.124.174

Pinging 67.15.124.174 with 32 bytes of data:
Reply from 67.15.124.174: bytes=32 time=424ms TTL=113
Reply from 67.15.124.174: bytes=32 time=1194ms TTL=113
Reply from 67.15.124.174: bytes=32 time=526ms TTL=113
Reply from 67.15.124.174: bytes=32 time=425ms TTL=113

Ping statistics for 67.15.124.174:

Packets: Sent = 4, Received = 4, Lost = 0 (0% loss),
Approximate round trip times in milli-seconds:

Minimum = 424ms, Maximum = 1194ms, Average = 642ms
```

Figure 4: PING using IP Address

```
C:\>ping 67.15.124.174 -n 3

Pinging 67.15.124.174 with 32 bytes of data:
Reply from 67.15.124.174: bytes=32 time=1016ms TTL=113
Reply from 67.15.124.174: bytes=32 time=407ms TTL=113
Reply from 67.15.124.174: bytes=32 time=1042ms TTL=113

Ping statistics for 67.15.124.174:

Packets: Sent = 3, Received = 3, Lost = 0 (0% loss),
Approximate round trip times in milli—seconds:

Minimum = 407ms, Maximum = 1042ms, Average = 821ms
```

Figure 5: PING using IP Address and specifying number of packets.

```
C:\>ping -a 87.248.113.14

Pinging f1.us.www.vip.ird.yahoo.com [87.248.113.14] with 32 bytes of data:
Reply from 87.248.113.14: bytes=32 time=368ms TTL=48
Reply from 87.248.113.14: bytes=32 time=274ms TTL=48
Reply from 87.248.113.14: bytes=32 time=267ms TTL=48
Reply from 87.248.113.14: bytes=32 time=314ms TTL=48
```

Figure 6: PING using a variant -a will yield domain name associated with IP and rest is same as above.

3. ARP

ARP is "Address Resolution Protocol". It is used to resolve IP address to MAC address.

arp –a (will show a list of relevant IP addresses and their corresponding MAC addresses)

Figure 7: arp with -a variant can show IP and Corresponding MAC address

4. NETSTAT

This command gives you information about transport protocols (TCP and UDP) and their present state like close or listening etc.

Netstat –a Shows the status of port along with the devices local address and the address with which communication is being done.

Netstat -e will yield Ethernet statistics that is number of bytes sent and received

Netstat -r To see routing table information and interface detail use following command

```
Command Prompt
 C:\>netstat-a
'netstat-a' is not recognized as an internal or external command,
operable program or batch file.
C:∖>netstat −a
Active Connections
                    Local Address Foreign Address St

uit-ff9149be5ba:epmap uit-ff9149be5ba:0 L1

uit-ff9149be5ba:2869 uit-ff9149be5ba:0

uit-ff9149be5ba:5101 uit-ff9149be5ba:0 L1

uit-ff9149be5ba:1042 localhost:1043 E8

uit-ff9149be5ba:1043 localhost:1047 E9

uit-ff9149be5ba:1046 localhost:1047 E9

uit-ff9149be5ba:1046 localhost:1047 E9

uit-ff9149be5ba:1047 localhost:1230 E9

uit-ff9149be5ba:1229 localhost:1230 E9

uit-ff9149be5ba:2335 localhost:2336 E9

uit-ff9149be5ba:2335 localhost:2335 E8
     Proto
                                                                                                                                          LISTENING
                                                                                                                                         0 LISTENING
LISTENING
LISTENING
ESTABLISHED
     TCP
                                                                                                                                          ESTABLISHED
                                                                                                                                          ESTABLISHED
ESTABLISHED
                                                                                                                                          ESTABLISHED
                                                                                localhost:2335
localhost:2341
localhost:2340
                                                                                                                                          ESTABLISHED
                               -ff9149be5ba:2340
                      uit.
                                                                                                                                          ESTABLISHED
                               -ff9149be5ba:2341
                                                                                                                                          ESTABLISHED
                      uit.
                                          49 be 5 ba :
```

Figure 8: netstat with -a variant can show IP and Corresponding MAC address

```
ESTABL TSHED
         The socket has an established connection.
         The socket is actively attempting to establish a connection.
  SYN RECV
         A connection request has been received from the network.
  FIN WAIT1
         The socket is closed, and the connection is shutting down.
  FIN_WAIT2
         Connection is closed, and the socket is waiting for a shutdown
from the remote end.
  TIME WAIT
         The socket is waiting after close to handle packets still in the
network.
  CLOSE The socket is not being used.
  CLOSE_WAIT
         The remote end has shut down, waiting for the socket to close.
  LAST ACK
          The remote end has shut down, and the socket is closed. Waiting
for acknowledgement.
  LISTEN The socket is listening for incoming connections. Such sockets
are not included in the output unless you specify the
         --listening (-1) or --all (-a) option.
  CLOSING
         Both sockets are shut down but we still don't have all our data
sent.
  UNKNOWN
         The state of the socket is unknown
```

Figure 9: Depicting the different status of ports

C:∖>netstat −e Interface Statistics		
	Received	Sent
Bytes	8924224	2033196
Unicast packets	12668	11912
Non-unicast packets	1148	1456
Discards	0	0
Errors	0	4
Unknown protocols	0	

Figure 10: Showing Ethernet statistics that is number of bytes sent and received

Figure 11: To see routing table information and interface detail use following command

5. Nslookup

Nslookup utility is used to test and troubleshoot domain name servers. Nslookup has two modes. Interactive mode enables you to query name servers for information about hosts and domains, or to print a list of hosts in a domain. Non-interactive mode prints only the name and requested details for one host or domain. Non-interactive mode is useful for a single query.

To enter the interactive mode of Nslookup, type nslookup without any arguments at a command prompt, or use only a hypen as the first argument and specify a domain name server in the second. The default DNS name server will be used if you don't enter anything for the second argument.

Figure 12: nslookup command being used.

To use non-interactive mode, in the first argument, enter the name or IP address of the computer you want to look up. In the second argument, enter the name or IP address of a domain name server. The default DNS name server will be used if you don't enter anything for the second argument.

```
C:\\nslookup www.go4expert.com

**** Can't find server name for address 218.248.255.162: Server failed

**** Can't find server name for address 218.248.255.163: Server failed

**** Default servers are not available

Server: UnKnown

Address: 218.248.255.162

Non-authoritative answer:

Name: www.go4expert.com

Address: 174.133.80.67

C:\>_
```

Figure 13: nslookup being used with domain name

6. Ftp

Transfers files to and from a computer running a File Transfer Protocol (FTP) server service such as Internet Information Services. Ftp can be used interactively or in batch mode by processing ASCII text files. Syntax

ftp [-v] [-d] [-i] [-n] [-g] [-s:FileName] [-a] [-w:WindowSize] [-A] [Host]

Parameters

-v : Suppresses the display of FTP server responses.

- -d : Enables debugging, displaying all commands passed between the FTP client and FTP server.
- -i : Disables interactive prompting during multiple file transfers.
- -n : Suppresses the ability to log on automatically when the initial connection is made.
- -g : Disables file name globbing. Glob permits the use of the asterisk (*) and question mark (?) as wildcard characters in local file and path names.
- -s: FileName: Specifies a text file that contains ftp commands. These commands run automatically after ftp starts. This parameter allows no spaces. Use this parameter instead of redirection (<).
- -a: Specifies that any local interface can be used when binding the FTP data connection.
- -w: WindowSize : Specifies the size of the transfer buffer. The default window size is 4096 bytes.
- -A: Logs onto the FTP server as anonymous.

Host: Specifies the computer name, IP address, or IPv6 address of the FTP server to which to connect. The host name or address, if specified, must be the last parameter on the line.

/? : Displays help at the command prompt.

FTP sub commands

Put	Copies a file on your local host to the foreign host.
Get	Display the name of the current working directory
Block	Sets the data transfer mode to block mode
Open	Opens a connection to a foreign host.
Pwd	Displays the name of the active working directory on the foreign host.
Bye	Leaves the FTP command environment

Table1: FTP commands

Lab tasks

Task 01: Explore the syntax "**ipconfig**" and "**winipcfg**". Note down your observations? Ipconfig itself gives the basic network information of your computer, /all shows detailed info, /renew renews every adapter, /allcompartments shows info about all compartments, adding /all after / allcompartments

Provides even firther detailed info, /renew <> * renews connection with the matc provided /release *<>* releases connection with the match.

Winipcfg is a discontinued command/exe that was available in windows 95, 98, ME and NT. it ptoduces same result to that produced with ipconfig /all

Task 02: Answer following questions

- 1) State the size of MAC address both in Bytes and Bits 6 Bytes and 6*8 = 48 Bits
- 2) Differentiate between IP and MAC address Mac address is a physical address allocated to every device on its manufacture while IP address is used to identify a device over a network
- 3) What is a gateway
 Gateway is like a boundary of the network which manages inflows and outflows from and to the network.
- 4) What is the purpose of loop-back address? It is used for testing and development purposes over your localhost. From its name its clear that we send the packets and they will loopback and received by our own address
- 5) PING stands for <u>Packet Internet Groper</u>.
- 6) What is the difference between ipconfig and ipconfig/all commands?

 Ipconfig gives the information about the network of your computer while ipconfig/all displays the basic information as well as additional information about DNS server, DHCP server etc.

7) Explore Nbtstat and finger command and explain its purpose.

Nbtstat is a TCP/IP utility that displays current TCP/IP connections and statistics using NetBIOS over TCP/IP (NetBT). It helps troubleshoot NetBIOS name resolution issues

Finger command provides information about a usrs who are currently logged in. It provides general info about the users like their login name their username, login time, idle time etc

Task 03: execute the tasks mentioned in the manual and observe the output

```
Z:\>tracert www.yahoo.com
Tracing route to new-fp-shed.wg1.b.yahoo.com [98.137.11.164]
over a maximum of 30 hops:
         <1 ms
                    <1 ms
                                <1 ms 172.16.32.100
                    1 ms
                              2 ms 103.4.93.49.pern.pk [103.4.93.49]
1 ms 172.31.240.64
1 ms tw129-static237.tw1.com [119.63.129.237]
        11 ms
         2 ms
                     1 ms
          1 ms
                     1 ms
                    1 ms 1 ms 110.93.252.146
2 ms 1 ms tw255-static164.tw1.com [110.93.255.164]
  5
         1 ms
         7 ms
                 122 ms 122 ms tw255-static175.tw1.com [110.93.255.175]
       124 ms
                  124 ms 124 ms ge-1-3-0.pat1.dee.yahoo.com [80.81.192.115]
116 ms 116 ms ae-0.pat2.dez.yahoo.com [209.191.112.7]
125 ms 125 ms ae-3.pat2.frz.yahoo.com [209.191.112.25]
  8
       124 ms
 10
       125 ms
 11
                              210 ms ae-11.pat1.dce.yahoo.com [209.191.64.24]
       210 ms
                   211 ms
                              217 ms ae-14.pat2.che.yahoo.com [209.191.64.39]
244 ms 209.191.68.1
269 ms ae-8.pat2.gqb.yahoo.com [209.191.64.234]
269 ms et-1-0-0.msr1.gq1.yahoo.com [66.196.67.101]
       216 ms
                   217 ms
 13
                   245 ms
 14
                   263 ms
 15
       283 ms
                   276 ms
                              261 ms et-0-0-0.clr1-a-gdc.gq2.yahoo.com [98.136.158.181]
 16
       261 ms
                   261 ms
                              269 ms lo0.fab5-1-gdc.gq2.yahoo.com [98.136.159.243]
       269 ms
                   269 ms
                   269 ms
18
       263 ms
                                         usw1-1-lbc.gq2.yahoo.com [98.136.158.192]
 19
       263 ms
                   263 ms
                              263 ms media-router-fp73.prod.media.vip.gq1.yahoo.com [98.137.11.164]
Trace complete.
Z:\>
```

```
Z:\>tracert 67.15.124.174
Tracing route to ev1s-67-15-124-174.theplanet.com [67.15.124.174]
over a maximum of 30 hops:
         <1 ms
                      <1 ms <1 ms 172.16.32.100
  1
                    <1 ms <1 ms static-225-97-24-103.ebonenet.com [103.24.97.225]</pre>
  2
         <1 ms
       63 ms 39 ms 29 ms 172.19.21.201
121 ms 89 ms 58 ms 172.18.1.29
126 ms 102 ms 149 ms khi77.pie.net.pk [202.125.137.148]
  4
  6
                                             Request timed out.
        106 ms 175 ms 244 ms 10.253.4.24
        306 ms 193 ms 304 ms 36351.sgw.equinix.com [27.111.228.69]
  8
  9
        112 ms 338 ms
                                  * ae5.cbs01.eq01.sng02.networklayer.com [169.45.19.172]
       300 ms 281 ms 283 ms ae0.cbs01.eq01.tok01.networklayer.com [169.45.19.182]
 10
        271 ms 288 ms * ae8.cbs02.eq01.tok01.networklayer.com [169.53.16.146] 
386 ms 390 ms * a.12.2da9.ip4.static.sl-reverse.com [169.45.18.10]
 11
       386 ms 390 ms
 12
        267 ms 267 ms 307 ms ae0.cbs02.cs01.lax01.networklayer.com [50.97.17.86]
 13
        357 ms 343 ms 337 ms ec.10.35a9.ip4.static.sl-reverse.com [169.53.16.236]
 14
        277 ms 266 ms 265 ms ae2.cbs01.dr01.dal04.networklayer.com [169.45.18.6]
                * * Request timed out.

* Request timed out.
 15
 16
 17
 18
 19
 20
 21
 22
 23
          *
 24
          *
 25
 26
 27
 28
 29
Trace complete.
```

```
Z:\>ping www.yahoo.com
Pinging new-fp-shed.wg1.b.yahoo.com [98.137.11.163] with 32 bytes of data:
Reply from 98.137.11.163: bytes=32 time=263ms TTL=49
Reply from 98.137.11.163: bytes=32 time=264ms TTL=49
Reply from 98.137.11.163: bytes=32 time=263ms TTL=49
Reply from 98.137.11.163: bytes=32 time=263ms TTL=49
Ping statistics for 98.137.11.163:
    Packets: Sent = 4, Received = 4, Lost = 0 (0% loss),
Approximate round trip times in milli-seconds:
    Minimum = 263ms, Maximum = 264ms, Average = 263ms
Z:\>_
```

```
Z:\>ping 67.15.124.174 -n 3

Pinging 67.15.124.174 with 32 bytes of data:
Request timed out.
Request timed out.
Request timed out.

Ping statistics for 67.15.124.174:
Packets: Sent = 3, Received = 0, Lost = 3 (100% loss),
```

```
Z:\>ping -a 87.248.113.14

Pinging et23-1.bas1-1-edg.amb.yahoo.com [87.248.113.14] with 32 bytes of data:
Reply from 87.248.113.14: bytes=32 time=149ms TTL=56
Reply from 87.248.113.14: bytes=32 time=123ms TTL=56
Reply from 87.248.113.14: bytes=32 time=124ms TTL=56
Reply from 87.248.113.14: bytes=32 time=175ms TTL=56
Ping statistics for 87.248.113.14:
    Packets: Sent = 4, Received = 4, Lost = 0 (0% loss),
Approximate round trip times in milli-seconds:
    Minimum = 123ms, Maximum = 175ms, Average = 142ms
```

Z:\>arp -a		
T-t 402 460 40 4	00	
Interface: 192.168.40.1		T
Internet Address	Physical Address	Type
192.168.40.255	ff-ff-ff-ff-ff	static
224.0.0.2	01-00-5e-00-00-02	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
239.193.8.251	01-00-5e-41-08-fb	static
239.193.9.252	01-00-5e-41-09-fc	static
239.242.6.7	01-00-5e-72-06-07	static
239.255.255.250	01-00-5e-7f-ff-fa	static
Interface: 172.16.34.21		
Internet Address	Physical Address	Type
172.16.32.7	00-0c-29-d5-26-69	dynamic
172.16.32.8	00-0c-29-e4-60-13	dynamic
172.16.32.11	00-0c-29-b4-38-f6	dynamic
172.16.32.26	00-0c-29-a7-05-93	dynamic
172.16.32.27	00-0c-29-e3-48-83	dynamic
172.16.32.100	00-09-0f-09-00-03	dynamic
172.16.32.200	98-90-96-a7-83-4f	dynamic
172.16.33.1	34-17-eb-cb-88-21	dynamic
172.16.33.6	34-17-eb-b3-05-27	dynamic
172.16.33.30	34-17-eb-a4-11-3b	dynamic
172.16.33.37	34-17-eb-a6-ba-89	dynamic
172.16.33.43	34-17-eb-b3-51-01	dynamic
172.16.33.44	78-45-c4-30-25-a0	dynamic
172.16.33.45	34-17-eb-a6-b8-9e	dynamic
172.16.33.51	34-17-eb-a4-11-1e	dynamic
172.16.33.57	34-17-eb-b3-d9-75	dynamic
172.16.33.64	98-90-96-ce-af-a3	dynamic
172.16.33.66	e8-de-27-01-ff-af	dynamic
172.16.33.99	34-17-eb-b4-33-65	dynamic
172.16.34.1	88-51-fb-68-be-31	dynamic
172.16.34.4	10-60-4b-5e-f9-af	dynamic
172.16.34.8	74-46-a0-a6-9a-f4	dynamic

Z:\>netstat -a					
Active C	Connections				
Proto	Local Address	Foreign Address	State		
TCP	0.0.0.0:80	cl4-21:0	LISTENING		
TCP	0.0.0.0:135	cl4-21:0	LISTENING		
TCP	0.0.0.0:444	cl4-21:0	LISTENING		
TCP	0.0.0.0:445	cl4-21:0	LISTENING		
TCP	0.0.0.0:903	cl4-21:0	LISTENING		
TCP	0.0.0.0:913	cl4-21:0	LISTENING		
TCP	0.0.0.0:3073	cl4-21:0	LISTENING		
TCP	0.0.0.0:5040	cl4-21:0	LISTENING		
TCP	0.0.0.0:7680	cl4-21:0	LISTENING		
TCP	0.0.0.0:49664	cl4-21:0	LISTENING		
TCP	0.0.0.0:49665	cl4-21:0	LISTENING		
TCP	0.0.0.0:49666	cl4-21:0	LISTENING		
TCP	0.0.0.0:49667	cl4-21:0	LISTENING		
TCP	0.0.0.0:49668	cl4-21:0	LISTENING		
TCP	0.0.0.0:49669	cl4-21:0	LISTENING		
TCP	0.0.0.0:49672	cl4-21:0	LISTENING		
TCP	0.0.0.0:49674	cl4-21:0	LISTENING		
TCP	0.0.0.0:52626	cl4-21:0	LISTENING		
TCP	127.0.0.1:3306	cl4-21:0	LISTENING		
TCP	127.0.0.1:30523	cl4-21:0	LISTENING		
TCP	127.0.0.1:49682	cl4-21:0	LISTENING		
TCP	127.0.0.1:49785	cl4-21:0	LISTENING		
TCP	127.0.0.1:56522	cl4-21:0	LISTENING		
TCP	172.16.34.21:139	cl4-21:0	LISTENING		

Z:\>netstat -e Interface Statistics		
	Received	Sent
Bytes	1706880945	97853084
Unicast packets	1060875	565990
Non-unicast packets	1988990	17119
Discards	760	0
Errors	0	0
Unknown protocols	0	

Z:\>netstat -r				
Interface List 1288 51 fb 70 b2 abIntel(R) 82579LM Gigabit Network Connection 800 50 56 c0 00 01VMware Virtual Ethernet Adapter for VMnet1 1300 50 56 c0 00 08VMware Virtual Ethernet Adapter for VMnet8 1Software Loopback Interface 1				
IPv4 Route Table				
======================================	==========	=========	=========	
Network Destinatio	n Netmask	Gateway	Interface	Metric
0.0.0.0	0.0.0.0	172.16.32.100	172.16.34.21	281
127.0.0.0	255.0.0.0	On-link	127.0.0.1	331
127.0.0.1	255.255.255.255	On-link	127.0.0.1	331
127.255.255.255	255.255.255.255	On-link	127.0.0.1	331
172.16.32.0	255.255.240.0	On-link	172.16.34.21	281
172.16.34.21	255.255.255.255	On-link	172.16.34.21	281
172.16.47.255	255.255.255.255	On-link	172.16.34.21	281
192.168.40.0	255.255.255.0	On-link	192.168.40.1	291
192.168.40.1	255.255.255.255	On-link	192.168.40.1	291
192.168.40.255	255.255.255.255	On-link	192.168.40.1	291
192.168.93.0	255.255.255.0	On-link	192.168.93.1	291
192.168.93.1	255.255.255.255	On-link	192.168.93.1	291
192.168.93.255	255.255.255.255	On-link	192.168.93.1	291
224.0.0.0	240.0.0.0	On-link	127.0.0.1	331
224.0.0.0	240.0.0.0	On-link	172.16.34.21	281
224.0.0.0	240.0.0.0	On-link	192.168.93.1	291
224.0.0.0	240.0.0.0	On-link	192.168.40.1	291
255.255.255.255	255.255.255.255	On-link	127.0.0.1	331
255.255.255.255	255.255.255.255	On-link	172.16.34.21	281
255.255.255.255	255.255.255.255	On-link	192.168.93.1	291
255.255.255.255	255.255.255.255	On-link	192.168.40.1	291
Persistent Routes:				
Network Address	Netmask	*		
0.0.0.0	0.0.0.0	172.16.32.100	Default	
=======================================	=======================================	=========	==========	=====

C:\Users\ADMIN>nslookup blurryface.netlify.app

Server: UnKnown Address: 192.168.1.1

Non-authoritative answer:

Name: blurryface.netlify.app

Addresses: 2406:da18:880:3802:bc32:fc44:302b:aad2

2406:da18:880:3801:52c7:4593:210d:6aae

3.0.239.142 34.124.149.177