

Networking Training Program 2025

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Question-1:

Try Test-Connection and nslookup commands for below websites

www.google.com

www.facebook.com

www.amazon.com

www.github.com

www.cisco.com

Output:

The Output contains IPv4 Address, IPv6 Address, DNS, total packet size and time takes to transfer.

```
Select Administrator: Windows PowerShell
Windows PowerShell
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Install the latest PowerShell for new features and improvements! https://aka.ms/PSWindows

PS C:\Windows\system32> Test-Connection www.google.com

Source      Destination    IPv4Address    IPv6Address      Bytes    Time(ms)
-----
DESKTOP-GJ... www.google.com 142.250.193.68 2404:6800:4007:822::2004 32      48
DESKTOP-GJ... www.google.com 142.250.193.68 2404:6800:4007:822::2004 32      50
DESKTOP-GJ... www.google.com 142.250.193.68 2404:6800:4007:822::2004 32      48
DESKTOP-GJ... www.google.com 142.250.193.68 2404:6800:4007:822::2004 32      48

PS C:\Windows\system32> Test-Connection www.facebook.com

Source      Destination    IPv4Address    IPv6Address      Bytes    Time(ms)
-----
DESKTOP-GJ... www.facebook... 57.144.156.1   2a03:2880:f33d:1:face:b00c:0:25de 32      23
DESKTOP-GJ... www.facebook... 57.144.156.1   2a03:2880:f33d:1:face:b00c:0:25de 32      25
DESKTOP-GJ... www.facebook... 57.144.156.1   2a03:2880:f33d:1:face:b00c:0:25de 32      25
DESKTOP-GJ... www.facebook... 57.144.156.1   2a03:2880:f33d:1:face:b00c:0:25de 32      31

PS C:\Windows\system32> Test-Connection www.amazon.com

Source      Destination    IPv4Address    IPv6Address      Bytes    Time(ms)
-----
DESKTOP-GJ... www.amazon.com 108.159.17.235 2405:200:1630:190::3bd4 32      15
DESKTOP-GJ... www.amazon.com 108.159.17.235 2405:200:1630:190::3bd4 32      17
DESKTOP-GJ... www.amazon.com 108.159.17.235 2405:200:1630:190::3bd4 32      13
DESKTOP-GJ... www.amazon.com 108.159.17.235 2405:200:1630:190::3bd4 32      16
```

```
PS C:\Windows\system32> Test-Connection www.github.com
```

Source	Destination	IPv4Address	IPv6Address	Bytes	Time(ms)
DESKTOP-GJ...	www.github.com	20.207.73.82		32	46
DESKTOP-GJ...	www.github.com	20.207.73.82		32	170
DESKTOP-GJ...	www.github.com	20.207.73.82		32	32
DESKTOP-GJ...	www.github.com	20.207.73.82		32	58

```
PS C:\Windows\system32> Test-Connection www.cisco.com
```

Source	Destination	IPv4Address	IPv6Address	Bytes	Time(ms)
DESKTOP-GJ...	www.cisco.com	23.209.254.61	2405:200:1630:1b0::b33	32	16
DESKTOP-GJ...	www.cisco.com	23.213.214.90	2405:200:1630:1b0::b33	32	14
DESKTOP-GJ...	www.cisco.com	23.209.254.61	2405:200:1630:1b0::b33	32	86
DESKTOP-GJ...	www.cisco.com	23.209.254.61	2405:200:1630:19b::b33	32	43

Output of nslookup command in Linux:

The output mainly contains the name of the DNS server queried, the addresses (IPv4, IPv6)

```
aswath@aswath-VirtualBox: ~  
aswath@aswath-VirtualBox:~$ nslookup www.google.com  
Server:      127.0.0.53  
Address:     127.0.0.53#53  
  
Non-authoritative answer:  
Name:   www.google.com  
Address: 142.250.192.164  
Name:   www.google.com  
Address: 2404:6800:4002:813::2004
```

```
aswath@aswath-VirtualBox: ~  
aswath@aswath-VirtualBox:~$ nslookup www.facebook.com  
Server:      127.0.0.53  
Address:     127.0.0.53#53  
  
Non-authoritative answer:  
www.facebook.com canonical name = star-mini.c10r.facebook.com.  
Name:   star-mini.c10r.facebook.com  
Address: 57.144.146.1  
Name:   star-mini.c10r.facebook.com  
Address: 2a03:2880:f33d:1:face:b00c:0:25de
```

```
aswath@aswath-VirtualBox: ~  
aswath@aswath-VirtualBox:~$ nslookup www.amazon.com  
Server:      127.0.0.53  
Address:     127.0.0.53#53  
  
Non-authoritative answer:  
www.amazon.com canonical name = tp.47cf2c8c9-frontier.amazon.com.  
tp.47cf2c8c9-frontier.amazon.com canonical name = d3ag4hukkh62yn.cloudfront.net.  
Name:   d3ag4hukkh62yn.cloudfront.net  
Address: 108.159.17.235  
Name:   d3ag4hukkh62yn.cloudfront.net  
Address: 2600:9000:2354:fa00:7:49a5:5fd4:b121  
Name:   d3ag4hukkh62yn.cloudfront.net  
Address: 2600:9000:2354:8e00:7:49a5:5fd4:b121  
Name:   d3ag4hukkh62yn.cloudfront.net  
Address: 2600:9000:2354:9400:7:49a5:5fd4:b121  
Name:   d3ag4hukkh62yn.cloudfront.net  
Address: 2600:9000:2354:5000:7:49a5:5fd4:b121  
Name:   d3ag4hukkh62yn.cloudfront.net  
Address: 2600:9000:2354:e00:7:49a5:5fd4:b121  
Name:   d3ag4hukkh62yn.cloudfront.net  
Address: 2600:9000:2354:1600:7:49a5:5fd4:b121  
Name:   d3ag4hukkh62yn.cloudfront.net  
Address: 2600:9000:2354:7000:7:49a5:5fd4:b121  
Name:   d3ag4hukkh62yn.cloudfront.net  
Address: 2600:9000:2354:d600:7:49a5:5fd4:b121
```

```
aswath@aswath-VirtualBox: ~  
aswath@aswath-VirtualBox:~$ nslookup www.github.com  
Server:      127.0.0.53  
Address:     127.0.0.53#53  
  
Non-authoritative answer:  
www.github.com canonical name = github.com.  
Name:   github.com  
Address: 20.207.73.82
```

```
aswath@aswath-VirtualBox: ~  
aswath@aswath-VirtualBox:~$ nslookup www.cisco.com  
Server:      127.0.0.53  
Address:     127.0.0.53#53  
  
Non-authoritative answer:  
www.cisco.com canonical name = www.cisco.com.akadns.net.  
www.cisco.com.akadns.net canonical name = wwwds.cisco.com.edgekey.net.  
wwwds.cisco.com.edgekey.net canonical name = wwwds.cisco.com.edgekey.net.globalredir.akadns.net.  
wwwds.cisco.com.edgekey.net.globalredir.akadns.net canonical name = e2867.dsca.akamaiedge.net.  
Name:   e2867.dsca.akamaiedge.net  
Address: 23.213.214.90  
Name:   e2867.dsca.akamaiedge.net  
Address: 2600:140f:400:18e::b33  
Name:   e2867.dsca.akamaiedge.net  
Address: 2600:140f:400:186::b33
```