LINUX NETWORKING MODULE 7 AND 8 ASSESSMENT SOLUTION

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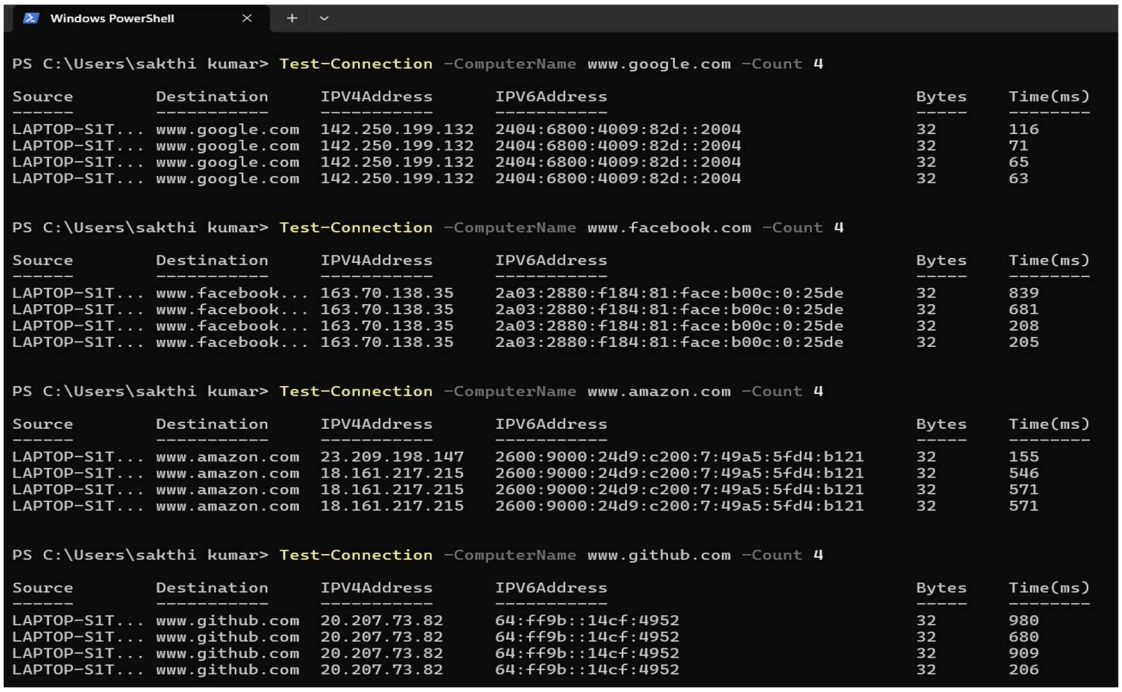
1. Try Test-Connection and nslookup commands for below websites: www.google.com, www.facebook.com, www.amazon.com, www.github.com, www.cisco.com

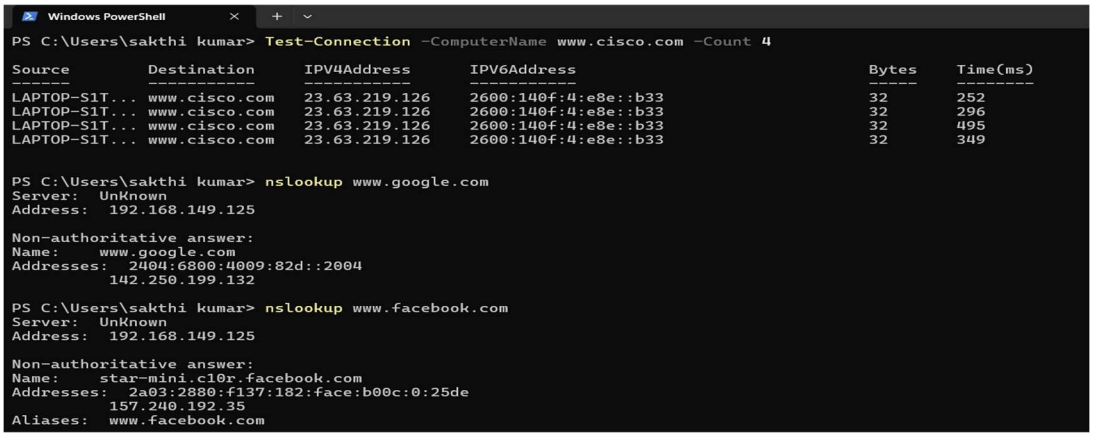
Test-Connection

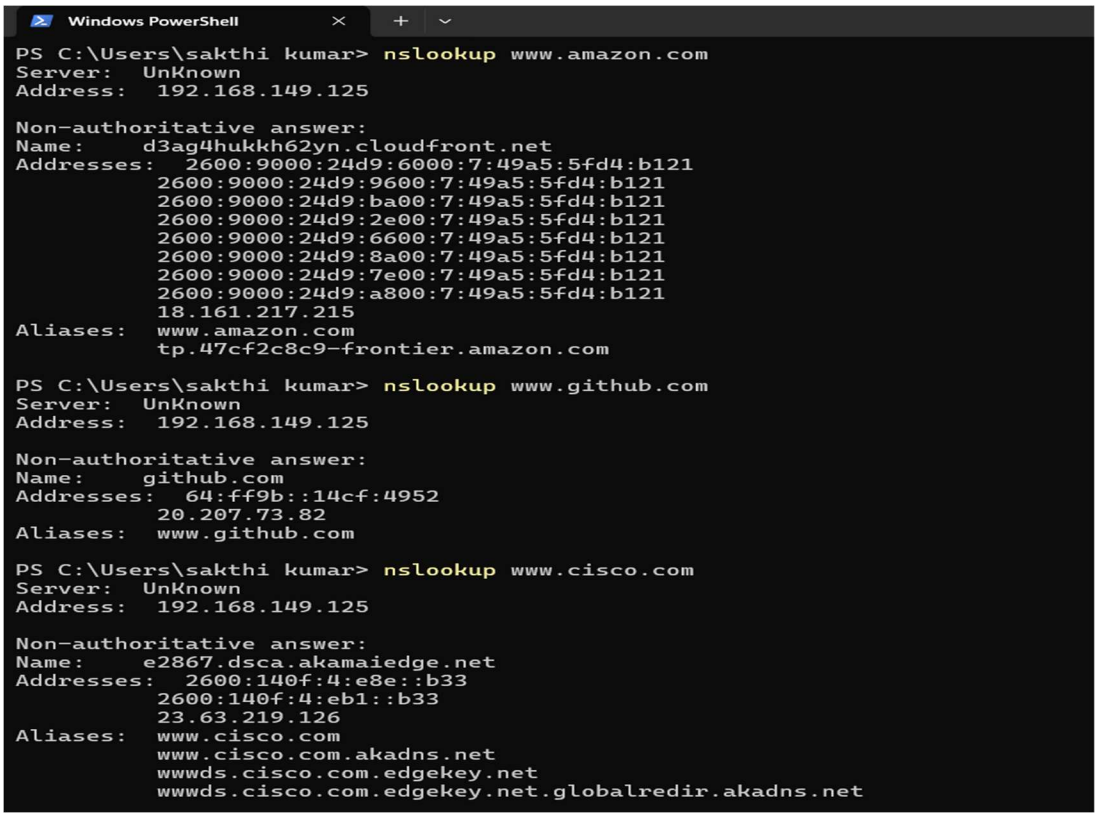
This command is similar to ping and helps in checking the reachability of a website.



nslookup (Name Server Lookup)

This command helps find the IP addresses corresponding to domain names.

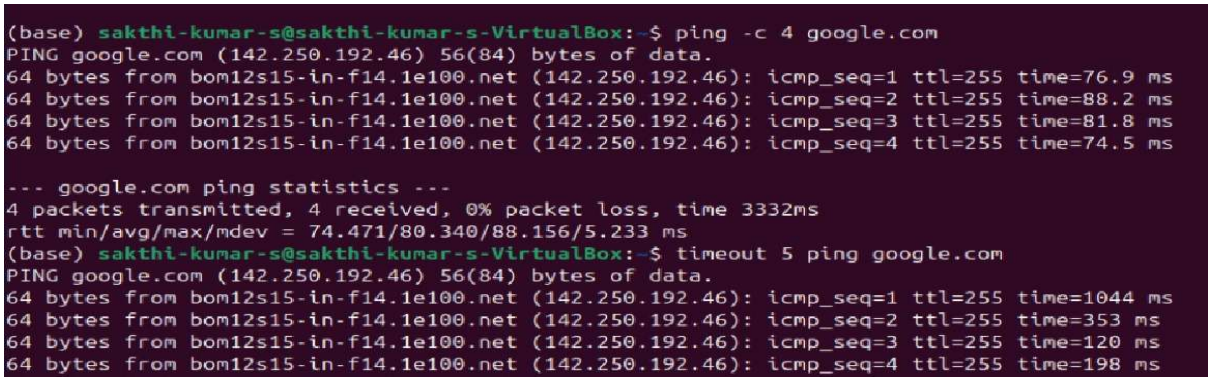


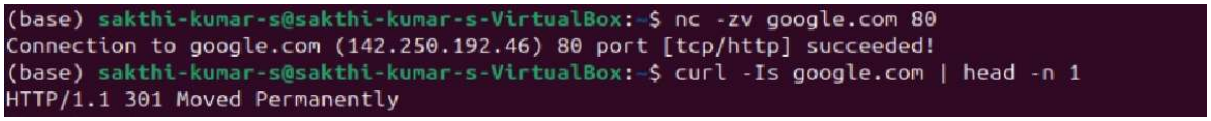


The Test-Connection command is a PowerShell cmdlet, primarily used in Windows to test network connectivity by sending ICMP Echo requests (ping). It is not a built-in command in Linux.

In Linux:

ping (Basic Alternative), nc (Netcat for TCP/UDP Testing), ping with timeout, traceroute, curl (To Check Website Availability, PowerShell in Linux can be used as some of few alternatives according to use case.





NsLookup:

```
(base) sakthi-kumar-s@sakthi-kumar-s-VirtualBox:~$ nslookup www.google.com
nslookup www.facebook.com
nslookup www.amazon.com
nslookup www.github.com
nslookup www.cisco.com
Server:         127.0.0.53
Address:        127.0.0.53#53

Non-authoritative answer:
Name:   www.google.com
Address: 142.250.195.132
Name:   www.google.com
Address: 2404:6800:4009:803::2004

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: 157.240.23.35
Name:   star-mini.c10r.facebook.com
Address: 2a03:2880:f184:81:face:b00c:0:25de

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: 18.161.217.215
Name:   d3ag4hukkh62yn.cloudfront.net
Address: 2600:9000:24d9:e800:7:49a5:5fd4:b121
Name:   d3ag4hukkh62yn.cloudfront.net
Address: 2600:9000:24d9:d400:7:49a5:5fd4:b121
Name:   d3ag4hukkh62yn.cloudfront.net
Address: 2600:9000:24d9:6800:7:49a5:5fd4:b121
Name:   d3ag4hukkh62yn.cloudfront.net
Address: 2600:9000:24d9:3000:7:49a5:5fd4:b121
Name:   d3ag4hukkh62yn.cloudfront.net
Address: 2600:9000:24d9:7c00:7:49a5:5fd4:b121
Name:   d3ag4hukkh62yn.cloudfront.net
Address: 2600:9000:24d9:9800:7:49a5:5fd4:b121
Name:   d3ag4hukkh62yn.cloudfront.net
Address: 2600:9000:24d9:2800:7:49a5:5fd4:b121
Name:   d3ag4hukkh62yn.cloudfront.net
Address: 2600:9000:24d9:4600:7:49a5:5fd4:b121

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
Name:   github.com
Address: 64:ff9b::14cf:4952

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: 23.63.219.126
Name:   e2867.dsca.akamaiedge.net
Address: 2600:140f:4:eb1::b33
Name:   e2867.dsca.akamaiedge.net
Address: 2600:140f:4:e8e::b33
```