

Testing Connection And Port Access

Test-NetConnection is a PowerShell cmdlet used to diagnose network connectivity issues. It's part of Windows PowerShell 4.0 and later, and provides a more detailed alternative to traditional tools like ping or tracert.

Capabilities:

- Ping a host
- Test TCP port connectivity
- Trace route to a remote host
- Check DNS resolution
- Display interface and source IP info

Ping A Host

Ping a remote host, replace your-server.com with your servers address.

```
Test-NetConnection your-server.com
```

Output:

```
PS C:\Users\diff1> Test-NetConnection yourserver.com

ComputerName           : Your Server
RemoteAddress          : XXX.XXX.XXX.XX
InterfaceAlias         : Loopback Pseudo-Interface 1
SourceAddress          : XXX.XXX.XXX.XX
PingSucceeded          : True
PingReplyDetails (RTT) : 220 ms
```

Test TCP Port Connection

Ping the remote host adding the port number, TapeTrack operates over port 5000 by default. or next most common on port 443

```
Test-NetConnection your-server.com -Port 5000
```

Output:

```
PS C:\> Test-NetConnection yourserverk.com -P 5000
WARNING: TCP connect to (XXX.XXX.XXX.XXX : 5000) failed
ComputerName           : baylor.tapetrack.com
RemoteAddress          : XXX.XXX.XXX.XXX
RemotePort             : 5000
```

InterfaceAlias	: Wi-Fi
SourceAddress	: XXX.XXX.XXX.XXX
PingSucceeded	: True
PingReplyDetails (RTT)	: 221 ms
TcpTestSucceeded	: False

{{tag> connection ping

From:
<https://docs.tapetrack.com/> - **TapeTrack Documentation**

Permanent link:
https://docs.tapetrack.com/cookbook/test_netconnection?rev=1759282446

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