

# 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

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