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\diffl> 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
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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