

Episode Title: Troubleshoot on-premises connectivity

Objectives:

At the end of this episode, I will be able to:

1. Troubleshoot firewall and network settings
2. Troubleshoot using CLI tools
3. Troubleshoot DNS

Key Points:

Key Point 1

When you have on-premises connectivity with Windows Servers, you should be aware of both network-level and OS-level firewall settings. If you are expecting something to work, chances are there is a mis-configuration in one of the two.

Key Point 2

A good troubleshooting technique is to use some basic tools to ensure connectivity. The CLI tools ping, traceroute, and tcping are all useful for low level network communication troubleshooting.

Key Point 3

DNS is a common symptom or problem when something in a network isn't working. If an IP address changes, but DNS hasn't been updated yet or has old results cached, then network communication will fail.

- If additional resources are used during the episode, they can be obtained using the download link on the overview episode (e.g. diagrams, no powerpoints)

External Resources:

If external resources were used during this episode, you can reference the following external resources for supplementary tools and information, if none were used, then this section will be blank:

- Troubleshoot on-premises and hybrid networking
: <https://learn.microsoft.com/en-us/training/modules/troubleshoot-premises-hybrid-networking/>