

## Episode Title: Troubleshoot VM connection issues

### Objectives:

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

1. Troubleshoot NSGs
2. Troubleshoot using Network Watcher
3. Troubleshoot hybrid connectivity

### Key Points:

#### Key Point 1

It's important to design your NSG rules carefully to balance security and functionality. You can troubleshoot NSGs to view effective security rules and monitor NSG flow logs for traffic-related decisions.

#### Key Point 2

If your environment contains multiple virtual networks with VMs distributed across regions, ensure that you are monitoring the vNet peering status of each network. This could also introduce additional routing, firewalls, and NSGs that could block VM connections.

#### Key Point 3

Hybrid connectivity with VPNs or ExpressRoute can add complexity to VM connections. These might also introduce firewalls, NSGs, or other network resources that could change or block traffic. Use Network Watcher to help troubleshoot these scenarios.

- 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)

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### 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 Azure VM connectivity problems  
: <https://learn.microsoft.com/en-us/azure/virtual-network/troubleshoot-vm-connectivity>