

Troubleshooting Networks

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

1. Identify common network issues.

Exam Objective: 5.7 - Given a scenario, troubleshoot problems with wired and wireless networks.

Description: In this episode, we will discuss issues related to network issues and common causes.

- Common symptoms
 - **Performance**
 - Intermittent wireless connectivity
 - Antenna placement
 - Distance
 - Roaming aggressiveness
 - Demo: Wi-Fi Analyzer
 - Slow network speeds and high latency
 - Bandwidth saturation
 - Demo: speed and duplex settings on wired adapter
 - Demo: Wireless adapter settings

- Demo: tracert
 - External interference
 - Bad cables
 - Bad termination
 - Channel congestion on 2.4 GHz frequency
 - Demo: Wi-Fi Analyzer
 - VoIP issues (quality and jitter)
 - Demo: QoS protocol setting
 - Port flapping
 - Wrong cable (unsupported, non-standard)
 - Bad or wrong SFP module
 - **Configuration**
 - IP address (dynamic vs. static)
 - Limited connectivity
 - Default Gateway
 - Power failure
 - Name resolution
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- Additional Reference Materials
 - Not applicable if blank.