

# Configuring Windows Devices, Part 4 of 8: Connecting to Networks

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**Meet the expert:** Patrick Loner has certifications for MCSA, MCSE, MCITP, A+, Network+, Security+, and more. He has been working as a Microsoft Certified Trainer, network administrator, and network consultant for over ten years. He has over a decade of experience working with and teaching about Windows networks with client and server operating systems. He has guided many students toward Microsoft and CompTIA certifications. Most recently, he has worked as a freelance trainer and network consultant specializing in Windows Server 2008 and Microsoft Exchange 2007 and Exchange 2010 implementations, design, and upgrades. Patrick continues to branch out now working with and training on Windows Server 2012, Windows 8, Exchange 2013, and System Center Configuration Manager 2012.

**Prerequisites:** This is part 4 of the series.

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**Course description:** A number of new features have been added to or enhanced with Windows 10. This course is on the networking in Windows 10, it starts with TCP/IP Connectivity, Name Resolution, and Wireless Connectivity. It finishes with a Remote Access Overview and how to Troubleshoot Connectivity. This course is part of the 70-697 exam preparation.

## Course outline:

### TCP/IP Connectivity

- Introduction
- Network Connection
- TCP/IP Network Connectivity
- Local Area Networks
- IPv4 Fundamentals
- Demo: Subnet Masks
- IPv4 Configuration Tools
- Demo: Configure Network Connections
- IPv6
- IPv6 Addresses
- IPv6 Address Types
- IPv6 Autoconfiguration
- Summary

### Name Resolution

- Introduction
- Name Resolution
- Ways to Resolve Names
- Demo: Name Resolution
- Summary

### Wireless Connectivity

- Introduction
- Wireless Connectivity
- Network Types
- Windows 10 Wireless Connectivity
- Wireless Security
- Additional Security Methods
- Wireless Components

- Manage Wi-Fi Settings
- Demo: Wireless Connectivity
- Summary

### Remote Access Overview

- Introduction
- Remote Connections
- VPNs
- VPN Connections
- Tunneling Protocols
- Tunneling Protocols Continued
- Demo: Connect to VPN
- Direct Access
- DirectAccess Continued
- Summary

### Troubleshoot Connectivity

- Introduction
- Connectivity Issues
- Troubleshooting Connectivity
- Demo: Troubleshoot Connectivity
- Demo: Pinging a Remote Network
- Demo: Troubleshoot Name Resolution
- Summary
- Summary