# Networking with Windows Server Training

Duration: **3 Day**

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## Overview

This three-day course provides IT professionals with the knowledge and practical skills required to configure, manage, and secure core and advanced networking features in Windows Server 2025. The course focuses on enabling reliable connectivity across on-premises, branch office, and hybrid cloud environments while supporting modern enterprise networking requirements.

Learners will explore IP addressing, IP Address Management, Domain Name System, and Dynamic Host Configuration Protocol, alongside remote access technologies such as virtual private networks. The course also examines integration between networking services and Hyper-V, including advanced virtual networking capabilities. An introduction to software defined networking completes the programme, giving learners insight into how Windows Server networking continues to evolve. Throughout the course, hands-on exercises reinforce learning and enable delegates to apply concepts in realistic scenarios.

## Prerequisites

Before attending this course, learners should have experience working within a Windows Server infrastructure in an enterprise environment. They should understand the OSI model and have knowledge of core networking components and technologies, including cabling, routers, hubs, and switches. Familiarity with common networking topologies and architectures such as local area networks, wide area networks, and wireless networking is required. Prior experience administering Windows Server is beneficial, and an understanding of Windows PowerShell will support learning but is not mandatory.

### Target audience

This course is designed for IT professionals who work with Windows Server and want to build or refresh their networking knowledge for modern environments. It is particularly relevant for network administrators who are relatively new to Windows Server administration and want to develop confidence with both core and advanced networking features. The course also supports professionals responsible for maintaining or upgrading network services across Windows Server versions from 2016 through to Windows Server 2025.

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## What You Will Learn

By the end of this course, learners will be able to:

- Implement and manage IPv4 addressing to meet organisational networking requirements.
- Configure and administer Dynamic Host Configuration Protocol services, including high availability.
- Implement name resolution using Domain Name System and integrate DNS with Active Directory Domain Services.
- Configure and manage IPv6 and integrate IPv6 and IPv4 networks.
- Implement and manage remote access technologies, including virtual private networks.
- Deploy and support network services for remote and branch office environments.
- Apply security measures to protect network traffic within Windows Server environments.