

Networking with Server 2025

This Windows Server Networking training prepares you to understand the core networking operations within Windows Server 2025, and builds practical skills for managing real network infrastructure. You'll configure DNS, DHCP, RRAS, IPAM, and Network Policy Server for RADIUS authentication, plus Network Load Balancing. Included virtual labs run on a realistic domain environment that mirrors real job setups. This course pairs well with our Active Directory Administration and Windows Server Core Infrastructure courses for broader coverage of the Windows Server platform.

[CBT Nuggets course material](#) →

WEEK 1

IP Addressing Fundamentals

IP Addressing Basics

Classful Subnet Masks

IPv6 Addresses and IPv4 Private IP Addresses

Validation

Network Models, Configuration, and Ports

The OSI Model

The TCP/IP Model

Protocols and Ports

Configure Network Properties via UI

Configure Network Properties via PowerShell

Validation

Network Communication and Equipment

Layer 2 Switch Communication

Layer 3 Route Communication

Custom Subnetting

VLANs

Network (and Port) Address Translation

Validation

Dynamic Host Configuration Protocol (DHCP)

DHCP Fundamentals

Obtaining a DHCP Address

Client-Side DHCP Commands

Configure a DHCP Server

Validation

Advanced DHCP Configuration

DHCP Relay Agent
DHCP Relay Agent Topology
DHCP Relay Agent Configuration
Failover with Split Scopes
DHCP Failover
Validation

DNS and IPAM

The Domain Name System (DNS)
DNS Hierarchy and Lookups
Creating DNS Records
Introducing IPAM
Install and Configure IPAM
Validation

NPS and VPN

Network Policy Server
Install RRAS and NPS
Configure Routing and Remote Access
Finish RRAS Settings and Configure NPS
Configure a VPN Client Connection
Validation

Network Load Balancing

Network Load Balancing and Clustering Overview
Network Load Balancing
Configure NLB
Failover Clustering
Validation

Network Monitoring, Performance, Captures

Network Performance Counters
Event Logs for Network Issues
Packet Captures with PKTMON
Validation