

70-741: Plan and Implement IPv4 and IPv6 Networks in Windows Server 2016 - Retired2020

Modality: On Demand

Duration: 3 Hours

This course prepares you for the 70-741 Exam leading to 70-741 Certification. This course does not include the Official Exam Voucher, however, you can request to purchase the **Official Exam Voucher** separately.

About this course:

This intermediate level certification course will cover all the major aspects of a network running this operating system. From planning and implementing IPv4 and IPv6 addressing schemes, troubleshooting client and server connectivity to name resolution with the Domain Name System and assignment of IP addresses using Dynamic Host Configuration Protocol. This course also covers various types of remote access capabilities that are supported in Windows Server 2016 such as Virtual Private Networks, the Web Application Proxy and the DirectAccess alternative to remote access. The actual purpose for this course is to prepare our students for the [Microsoft 70-741: Networking with Windows Server 2016 exam](#).

The average salary for a Windows Server Administrator is **\$69,077** per year.

Course Objective:

After completing this course, students will be able to:

- Plan and implement an IPv4 network.
- Implement Dynamic Host Configuration Protocol (DHCP).
Implement IPv6.
- Implement Domain Name System (DNS).
- Implement and manage IP address management (IPAM).
- Plan for remote access.
- Implement DirectAccess.
- Implement virtual private networks (VPNs).
- Implement networking for branch offices.
- Configure advanced networking features.
- Implement Software Defined Networking.

Audience:

This course is intended for:

- Network administrators who are looking to reinforce existing skills and learn about new networking technology changes and functionality in Windows Server 2016.

- System or Infrastructure Administrators with general networking knowledge who are looking to gain core and advanced networking knowledge and skills on Windows Server 2016.

Prerequisites:

Students who attend this training should already have the following technical knowledge:

- Experience working with Windows Server 2008 or Windows Server 2012
- Experience working in a Windows Server infrastructure enterprise environment
- Knowledge of the Open Systems Interconnection (OSI) model
- Understanding of core networking infrastructure components and technologies such as cabling, routers, hubs, and switches
- Familiarity with networking topologies and architectures such as local area networks (LANs), wide area networks (WANs) and wireless networking
- Some basic knowledge of the TCP/IP protocol stack, addressing and name resolution
- Experience with and knowledge of Hyper-V and virtualization
- Hands-on experience working with the Windows client operating systems such as Windows 8.1 or Windows 10

Suggested prerequisites courses:

- [Administering Windows Server 2012 - MOC On Demand \(MS-20411\)](#)
- [Configuring Advanced Windows Server 2012 Services - MOC On Demand \(MS-20412\)](#)
- [Windows Server 2016: Advanced Virtualization](#)

Course Outline:

- Topic A - Plan and Implement IP Addressing Schemes for IPv4 Networks
- Topic B - Configuring IPv4 Hosts
- Topic C - Managing and Troubleshooting IPv4 Connectivity
- Topic D - Implementing IPv6 for Network Hosts
- Topic E - Implementing IPv6 Transitioning and Coexistence