

## 20741: Networking with Windows Server 2016

- **Formato do curso:** Presencial e Live Training
- **Localidade:** Porto
- **Data:** 08 Nov. 2021 a 12 Nov. 2021
- **Preço:** 1720€
- **Horário:** Laboral - das 9h00 às 17h00
- **Nível:** Intermédio
- **Duração:** 35 horas

Este curso permite aos formandos adquirir conhecimentos das soluções de networking do Windows Server 2016. Implementação e gestão de redes IP, remote access e software defined networking.

**The 70-741 certification exam retires on January 31, 2021**

### Destinatários

- Profissionais IT que desejam seguir uma carreira em sistemas Microsoft;
- Administradores de sistemas Microsoft;
- Administradores de sistemas redes Microsoft;
- Administradores de sistemas que desejam migrar para tecnologias Microsoft.

### Pré-requisitos

- Experiência em Windows Server 2008 ou Windows Server 2012;
- Experiência em infraestruturas empresariais Windows Server;
- Conhecimentos base em Open Systems Interconnection (OSI) model;
- Conhecimento base de infraestruturas de rede de computadores, protocolos e equipamentos;
- Conhecimento base nas topologias local area networks (LANs), wide area networks (WANs) e redes wireless;
- Conhecimentos base do modelo TCP/IP, segmentação e resolução de nomes;
- Experiência nas soluções Hyper-V e virtualization;
- Utilização de sistemas operativos cliente em ambiente empresarial.

## Objectivos

- Planificação e Implementação segmentação de redes IPv4;
  - Implementação de Dynamic Host Configuration Protocol (DHCP);
  - Implementação de IPv6;
  - Implementação de Domain Name System (DNS);
  - Implementação e gestão de IP address management (IPAM);
  - Planificação para remote access;
  - Implementação de DirectAccess;
  - Implementação de virtual private networks (VPNs);
  - Implementação de networking for branch offices;
  - Configuração de advanced networking features;
  - Implementação de software defined networking.
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## Programa

**Planning and implementing an IPv4 network** This module explains how to plan and implement an IPv4 addressing scheme to support organizational needs. This module also explains how to use fundamental networking tools and techniques to configure and troubleshoot IPv4-based networks. After completing this module, students will be able to:

- Plan IPv4 addressing.
- Configure an IPv4 host.
- Manage and troubleshoot IPv4 network connectivity.

**Implementing DHCP** This module explains how to plan and implement DHCP to support the IPv4 infrastructure. After completing this module, students will be able to:

- Explain the DHCP server role.
- Deploy DHCP.
- Manage and troubleshoot DHCP.

**Implementing IPv6** This module explains how to implement IPv6, and how to integrate IPv6 and IPv4 networks. After completing this module, students will be able to:

- Describe the features and benefits of IPv6.
- Configure an IPv6 host.
- Implement the coexistence between IPv4 and IPv6 networks.
- Transition from an IPv4 network to an IPv6 network.

**Implementing DNS** This module explains how to install, configure, and troubleshoot DNS within the organization's network. After completing this module, students will be able to:

- Implement DNS servers.
- Configure zones in DNS.
- Configure name resolution between DNS zones.

- Configure DNS integration with AD DS.
- Configure advanced DNS settings.

**Implementing and managing IPAM** This module explains how to implement and manage the IPAM feature in Windows Server 2016. This module also explains how to use IPAM to manage services such as DHCP and DNS. After completing this module, students will be able to:

- Describe IPAM functionality and components.
- Deploy IPAM.
- Manage IP address spaces by using IPAM.

**Remote access in Windows Server 2016** This module explains how to plan for remote access in Windows Server 2016 and how to implement Web Application Proxy. After completing this module, students will be able to:

- Describe remote access.
- Implement Web Application Proxy.

**Implementing DirectAccess** This module explains how to implement and manage DirectAccess in Windows Server 2016. After completing this module, students will be able to:

- Explain DirectAccess and how it works.
- Implement DirectAccess by using the Getting Started Wizard.
- Implement and manage an advanced DirectAccess infrastructure.

**Implementing VPNs** This module explains how to implement and manage remote access in Windows Server 2016 by using VPNs. After completing this module, students will be able to:

- Plan for VPNs.
- Implement VPNs.

**Implementing networking for branch offices** This module explains how to implement network services for branch offices. After completing this module, students will be able to:

- Describe the networking features and considerations for branch offices.
- Implement DFS for branch offices.
- Implement BranchCache for branch offices.

**Configuring advanced networking features** This module explains how to implement an advanced networking infrastructure. After completing this module, students will be able to:

- Describe high performance networking features.
- Configure advanced Hyper-V networking features.

**Implementing software defined networking** This module explains how to implement software defined networking. After completing this module, students will be able to:

- Describe software defined networking.
- Implement network virtualization.
- Implement Network Controller.

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