

Certificaciones Profesionales enTI

Temario



CURSO OD20741B Networking with Windows Server 2016



Course Outline

Module 1: 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.

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Lessons

- Planning IPv4 addressing
- Configuring an IPv4 host
- Managing and troubleshooting IPv4 network connectivity

Lab : Planning an IPv4 network

• Planning the IPv4 address assignments

Lab : Implementing and troubleshooting an IPv4 network

- Verifying the IPv4 communication
- Troubleshooting IPv4

After completing this module, students will be able to:

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







Module 2: Implementing DHCP

This module explains how to plan and implement DHCP to support the IPv4 infrastructure.

Lessons

- Overview of the DHCP server role
- Deploying DHCP
- Managing and troubleshooting DHCP

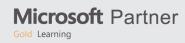
Lab : Implementing DHCP

- Planning the DHCP server implementation
- Implementing the DHCP configuration
- Validating the DHCP implementation

After completing this module, students will be able to:

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







Module 3: Implementing IPv6

This module explains how to implement IPv6, and how to integrate IPv6 and IPv4 networks.

Lessons

- Overview of IPv6 addressing
- Configuring an IPv6 host
- Implementing IPv6 and IPv4 coexistence
- Transitioning from IPv4 to IPv6

Lab : Configuring and evaluating IPv6 transition technologies

- Reviewing the default IPv6 configuration
- Implementing DHCPv6
- Configuring network integration by using ISATAP
- Configuring native IPv6 connectivity
- Configuring 6to4 connectivity

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.







Module 4: Implementing DNS

This module explains how to install, configure, and troubleshoot DNS within the organization's network.

Lessons

- Implementing DNS servers
- Configuring zones in DNS
- Configuring name resolution between DNS zones
- Configuring DNS integration with Active Directory Domain Services (AD DS)
- Configuring advanced DNS settings

Lab : Planning and implementing name resolution by using DNS

- Planning DNS name resolution
- Implementing DNS servers and zones

Lab : Integrating DNS with AD DS

Integrating DNS with AD DS

Lab : Configuring advanced DNS settings

- Configuring DNS policies
- Validating the DNS implementation
- Troubleshooting DNS

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.





Module 5: 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.

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Lessons

- Overview of IPAM
- Deploying IPAM
- Managing IP address spaces by using IPAM

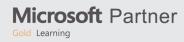
Lab : Implementing IPAM

- Installing the IPAM Server feature
- Provisioning the IPAM Server
- Managing IP address spaces by using IPAM

After completing this module, students will be able to:

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







Module 6: 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.

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Lessons

- Overview of remote access
- Implementing Web Application Proxy

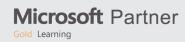
Lab : Implementing Web Application Proxy

- Implementing Web Application Proxy
- Validating the Web Application Proxy deployment

After completing this module, students will be able to:

- Describe remote access.
- Implement Web Application Proxy.







Module 7: Implementing DirectAccess

This module explains how to implement and manage DirectAccess in Windows Server 2016.

Lessons

- Overview of DirectAccess
- Implementing DirectAccess by using the Getting Started Wizard
- Implementing and managing an advanced DirectAccess infrastructure

Lab : Implementing DirectAccess by using the Getting Started Wizard

- Verifying readiness for a DirectAccess deployment
- Configuring DirectAccess
- Validating the DirectAccess deployment

Lab : Deploying an advanced DirectAccess solution

- Preparing the environment for DirectAccess
- Implementing the advanced DirectAccess infrastructure
- Validating the DirectAccess deployment

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.







Module 8: Implementing VPNs

This module explains how to implement and manage remote access in Windows Server 2016 by using VPNs.

Lessons

- Planning VPNs
- Implementing VPNs

Lab : Implementing a VPN

- Implementing a VPN
- Validating the VPN deployment
- Troubleshooting VPN access

After completing this module, students will be able to:

- Plan for a VPN solution.
- Implement VPNs.

Module 9: Implementing networking for branch offices

This module explains how to implement network services for branch offices.

Lessons

- Networking features and considerations for branch offices
- Implementing Distributed File System (DFS) for branch offices
- Implementing BranchCache for branch offices

Lab : Implementing DFS for branch offices

- Implementing DFS
- Validating the deployment

Lab : Implementing BranchCache

- Implementing BranchCache
- Validating the deployment

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.



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Module 10: Configuring advanced networking features

This module explains how to implement an advanced networking infrastructure.

Lessons

- Overview of high performance networking features
- Configuring advanced Microsoft Hyper-V networking features

Lab : Configuring advanced Hyper-V networking features

Creating and using Hyper-V virtual switches Configuring and using the advanced features of a virtual switch

After completing this module, students will be able to:

- Describe the high performance networking enhancements in Windows Server 2016.
- Configure the advanced Microsoft Hyper-V networking features.

Module 11: Implementing Software Defined Networking

This module explains how to implement software defined networking.

Lessons

- Overview of Software Defined Networking
- Implementing network virtualization
- Implementing Network Controller

Lab : Deploying Network Controller

- Preparing to deploy Network Controller
- Deploying Network Controller

After completing this module, students will be able to:

- Describe Software Defined Networking.
- Implement network virtualization.
- Implement Network Controller.



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