

Troubleshooting Windows Server 2016 Core Technologies

Module 1 : Implement a troubleshooting methodology

- Overview of the troubleshooting process
- Overview of troubleshooting tools
- Use remote administration tools
- Troubleshoot Windows PowerShell commands and scripts
- Lab: Implement a troubleshooting methodology
- Implement a troubleshooting methodology
- Lab: Use troubleshooting tools
- Use troubleshooting tools
- Lab: Troubleshoot a remote server computer
- Use remote tools to administer a remote server
- Lab: Troubleshoot a script
- Troubleshoot a script

Module – 2 : Troubleshoot network connectivity

- Troubleshooting with Message Analyzer
- Troubleshooting IP settings
- Troubleshoot network connectivity
- Troubleshooting DHCP
- Troubleshooting client name resolution
- Lab: Resolve network connectivity issues
- Resolve a network problem
- Lab: Troubleshoot DHCP
- Resolve DHCP issues
- Install and configure the DHCP server role
- Configure DHCP failover
- Lab: Resolve name resolution issues
- Resolve a name resolution issue (1)
- Resolve a name resolution issue (2)

Module 3 : Troubleshoot authentication issues

- Troubleshoot user and computer account authentication
- Troubleshoot AD DS replication issues
- Troubleshoot authentication to Office 365
- Lab: Resolve sign-in problems
- Resolve a sign-in problem (1)
- Resolve a sign-in problem (2)
- Lab: Resolve sign-in problems at branch offices
- Resolve sign-in problems at branch offices

Module 4 : Troubleshoot application access issues

- Troubleshooting access to Windows Server apps
- Troubleshooting issues with certificates
- Troubleshooting access to web-based apps
- Lab: Troubleshoot application access issues
- Troubleshoot application startup
- Troubleshoot application security warnings
- Troubleshoot application authentication

Module 5 : Troubleshoot file access issues

- Troubleshooting access to files and folders
- Manage and troubleshoot BitLocker
- Lab: Troubleshooting file access
- Troubleshoot file access (1)
- Troubleshoot file access (2)
- Lab: Test BitLocker on a Windows 2016 Server
- Test BitLocker on Windows Server 2016

Module 6 : Troubleshoot storage issues

- Troubleshooting server storage issues
- Troubleshoot DFS
- Troubleshoot advanced file services
- Lab: Troubleshooting server storage issues
- Repair data redundancy
- Troubleshoot file replication
- Troubleshoot Dynamic Access Control
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Module 7 : Troubleshoot Group Policy

- Group Policy overview
- Troubleshoot Group Policy application
- Lab: Troubleshooting GPO application
- Troubleshoot GPOs (1)
- Troubleshoot GPOs (2)
- Troubleshoot GPOs (3)

Module 7 : Troubleshooting AD DS

- Overview of AD DS administration tools
- Control AD DS administration
- Backup and restore AD DS objects
- Troubleshoot issues related to domain controllers
- Troubleshoot AD DS trusts
- Lab: Deploy LAPS
- Troubleshoot local administrator password configuration
- Install and configure LAPS
- Deploy and test LAPS
- Lab: Recover AD DS objects
- Recover missing user accounts
- Lab: Resolve common AD DS problems
- Restore the Toronto AD DS site
- Restore the TOR-DC1 and FSMO roles
- Restore the Adatum Contoso forest trust

Module 8 : Troubleshoot remote access to data and apps

- Troubleshoot VPN connectivity
- Overview of remote access for apps
- Troubleshoot Remote Desktop Services
- Lab: Troubleshoot remote access to data and apps
- Resolve common remote access problems
- Troubleshoot VPN connectivity
- Troubleshoot access to a RemoteApp program

Module 9 : Troubleshoot visualization issues

- Issues with VM configuration
- Troubleshoot VM resources
- Lab: Troubleshooting Hyper-V
- Troubleshoot replication

- Troubleshoot PowerShell Direct access
- Troubleshoot Hyper-V networking
- Troubleshoot Hyper-V VM storage
- Troubleshoot VM startup

Module 10 - Troubleshooting high availability

- Considerations for implementing load balancing
- Troubleshooting failover clustering
- Troubleshooting Hyper-V clusters
- Lab: Troubleshooting high availability
- Troubleshooting high availability for a virtual machine
- Troubleshooting storage for high availability
- Troubleshooting a failover cluster

Students who attend this training can meet the prerequisites by attending the following courses, or obtaining equivalent knowledge and skills:

20740C: Installation, Storage, and Compute with Windows Server 2016

20741D: Networking with Windows Server 2016

20742B: Identity with Windows Server 2016

Prerequisites

In addition to their professional experience, students who attend this training should already have the following technical knowledge:

Networking fundamentals, including IPv4 and Domain Name System (DNS)

Principles and management of AD DS

Basic understanding of public key infrastructure (PKI)

Windows PowerShell basics

Hyper-V

Load balancing

Failover clustering