Microsoft Security

CB103

05
Days

Microsoft Security

Outline

In this course, students will learn about the Windows Server 2016 operating system. Countless companies throughout the world rely on the Windows Server to manage their organization's computers. Students will be taught how to set up domain environments using Active Directory, which enables central control of all computers and users in a domain. This course will also cover how to manage network services, such as DNS and DHCP servers, & the differences between Windows Server 2016 and newer versions, such as 2019.

In addition, the lessons will include the security aspects & hardening of those environments & systems.

Target Audience

Technically-savvy or IT-related professionals who want to sharpen their skills in the IT world.

Prerequisites

Before attending this course, students must have:

- Experience working with Windows clients 7, 8, 8.1, or 10.
- Basic understanding of virtual environments.
- Basic knowledge of networking.

Objectives

The objectives of the course are to teach students about the Windows server and equip them with solid knowledge and hands-on experience in Windows server environments.

Upon course completion, participants will be able to:

- Install Windows server 2016.
- Create and manage domain environments.
- Configure advanced features of the Dynamic Host Configuration Protocol (DHCP) & IP addresses.
- Configure Domain Name System (DNS) services.
- Create basic PowerShell scripts.
- Implement group policies.
- Harden Microsoft operating systems.

Content

Day 1 — Module 01
Introduction to Windows Client

- Networking Review
- Windows Environment
- Client Configuration
- Introduction to CM D
- Users and Groups
- Remote Connection
- Windows Maintenance
- Client Security Features

Day 1 — Module 02
Windows Server 2012 & Enterprise Creation

- Windows Server 2012 Overview
- Installation
- Configuration

Day 1 — Module 03
Active Directory

- Fundamentals
- Active Directory Objects
- Server Core Configuration

Day 2 — Module 04
Domain Name System

- Fundamentals
- DNS Zones and Records
- DNS Configuration
- Link-Local Multicast Name Resolution

Day 2 — Module 05
PowerShell

- PowerShell Fundamentals
- PowerShell as a Tool
- PowerShell for Active Directory
- PowerShell as a Weapon

Day 3 — Module 06
Group Policy

- GPO Introduction
- GPO Management
- Group Policy Management Editor
- WMI Filters & Troubleshooting
- Additional GPO Extensions

Day 3 — Module 07
Shares and Permissions

- File Sharing
- NTFS Permissions
- Distributed File System

Day 4 — Module 08
DHCP

- Introduction
- DHCP Installation
- DHCP Configuration
- DHCP Failover

Day 4 — Module 09
Disk Management

- MBR vs GPT
- Basic vs Dynamic Disk
- Dynamic Disk Features
- RAID
- Disk Management Tool
- Disk Partition Commands
- File Server Resource Manager

Day 5 — Module 10
Microsoft Endpoint Security

- Host Encryption
- AppLocker
- Windows Firewall

Day 5 — Module 11
Security Policies & Authentication

- Network Operation Hardening
- Account Security Policies
- Local Security Policies
- Additional Security Measures
- NTLM Authentication
- Kerberos Authentication

Day 5 — Module 12
Project Final

- Final Project overview
- Troubleshoot

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Set up domain environments using Active Directory, which enables central **control of all computers and users** in a domain"

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