

**SERVER SİSTEMLƏRİNİN İDARƏ OLUNMASI**  
**(Windows Server 2016)**

**Module 1: Installing, upgrading, and migrating servers and workloads**

**Lesson 1:** Introducing Windows Server 2016

**Lesson 2:** Preparing and installing Nano Server and Server Core

**Lesson 3:** Preparing for upgrades and migrations

**Lesson 4:** Migrating server roles and workloads

**Lesson 5:** Windows Server activation models

**Lab:** Installing and configuring Nano Server

**Module 2: Configuring local storage**

**Lesson 1:** Managing disks in Windows Server

**Lesson 2:** Managing volumes in Windows Server

**Lab:** Configuring local storage

**Module 3: Implementing enterprise storage solutions**

**Lesson 1:** Overview of DAS, NAS, and SANs

**Lesson 2:** Comparing Fiber Channel, iSCSI, and Fiber Channel over Ethernet

**Lesson 3:** Understanding iSNS, DCB, and MPIO

**Lesson 4:** Configuring sharing in Windows Server 2016

**Lab:** Planning and configuring storage technologies and components

**Module 4: Implementing Storage Spaces and Data Deduplication**

**Lesson 1:** Implementing Storage Spaces

**Lesson 2:** Managing Storage Spaces

**Lab A:** Implementing Storage Spaces

**Lesson 3:** Implementing Data Deduplication

**Lab B:** Implementing Data Deduplication

**Module 5: Installing and configuring Hyper-V and virtual machines**

**Lesson 1:** Overview of Hyper-V

**Lesson 2:** Installing Hyper-V

**Lesson 3:** Configuring storage on Hyper-V host servers

**Lesson 4:** Configuring networking on Hyper-V host servers

**Lesson 5:** Configuring Hyper-V virtual machines

**Lesson 6:** Managing virtual machines

**Lab:** Installing and configuring Hyper-V

## **Module 6: Implementing failover clustering**

**Lesson 1:** Planning a failover cluster

**Lesson 2:** Creating and configuring a new failover cluster

**Lab A:** Implementing failover clustering

**Lesson 3:** Maintaining a failover cluster

**Lesson 4:** Troubleshooting a failover cluster

**Lesson 5:** Implementing site high availability with stretch clustering

**Lab B:** Managing a failover cluster

## **Module 7: Implementing Network Load Balancing**

**Lesson 1:** Overview of NLB

**Lesson 2:** Configuring an NLB cluster

**Lesson 3:** Planning an NLB Implementation

**Lab:** Implementing NLB

## **Module 8: Managing, monitoring, and maintaining virtual machine installations**

**Lesson 1:** WSUS overview and deployment options

**Lesson 2:** Update management process with WSUS

**Lab A:** Implementing WSUS and deploying updates

**Lesson 3:** Overview of Windows PowerShell DSC

**Lesson 4:** Overview of Windows Server 2016 monitoring tools

**Lesson 5:** Using Performance Monitor

**Lesson 6:** Monitoring event logs

**Lab B:** Monitoring and troubleshooting Windows Server 2016

## **Module 9: Implementing DHCP**

**Lesson 1:** Overview of the DHCP server role

**Lesson 2:** Deploying DHCP

**Lesson 3:** Managing and troubleshooting DHCP

**Lab:** Implementing DHCP

## **Module 10: Implementing DNS**

**Lesson 1:** Implementing DNS servers

**Lesson 2:** Configuring zones in DNS

**Lesson 3:** Configuring name resolution between DNS zones

**Lab A:** Planning and implementing name resolution by using DNS

**Lesson 4:** Configuring DNS integration with AD DS

**Lab B:** Integrating DNS with AD DS

**Lesson 5:** Configuring advanced DNS settings

**Lab C:** Configuring advanced DNS settings

## **Module 11: Implementing VPNs**

**Lesson 1:** Planning VPNs

**Lesson 2:** Implementing VPNs

**Lab:** Implementing VPN

## **Module 12: Implementing networking for branch offices**

**Lesson 1:** Networking features and considerations for branch offices

**Lesson 2:** Implementing DFS for branch offices

**Lab A:** Implementing DFS for branch offices

**Lesson 3:** Implementing BranchCache for branch offices

**Lab B:** Implementing BranchCache

## **Module 13: Configuring advanced networking features**

**Lesson 1:** Overview of high-performance networking features

**Lesson 2:** Configuring advanced Hyper-V networking features

**Lab:** Configuring advanced Hyper-V networking features

## **Module 14: Implementing Software Defined Networking**

**Lesson 1:** Overview of SDN

**Lesson 2:** Implementing network virtualization

**Lesson 3:** Implementing Network Controller

**Lab:** Deploying Network Controller

## **Module 15: Installing and configuring domain controllers**

**Lesson 1:** Overview of AD DS

**Lesson 2:** Overview of AD DS domain controllers

**Lesson 3:** Deploying a domain controller

**Lab:** Deploying and administering AD DS

## **Module 16: Managing objects in AD DS**

**Lesson 1:** Managing user accounts

**Lesson 2:** Managing groups in AD DS

**Lesson 3:** Managing computer objects in AD DS

**Lab A:** Managing AD DS objects

**Lesson 4:** Using Windows PowerShell for AD DS administration

**Lesson 5:** Implementing and managing OUs

**Lab B:** Administering AD DS

## **Module 17: Advanced AD DS infrastructure management**

**Lesson 1:** Overview of advanced AD DS deployments

**Lesson 2:** Deploying a distributed AD DS environment

**Lesson 3:** Configuring AD DS trusts

**Lab:** Domain and trust management in AD DS

## **Module 18: Implementing and administering AD DS sites and replication**

**Lesson 1:** Overview of AD DS replication

**Lesson 2:** Configuring AD DS sites

**Lesson 3:** Configuring and monitoring AD DS replication

**Lab:** Implementing AD DS sites and replication

## **Module 19: Implementing Group Policy**

**Lesson 1:** Introducing Group Policy

**Lesson 2:** Implementing and administering GPOs

**Lesson 3:** Group Policy scope and Group Policy processing

**Lab A:** Implementing a Group Policy infrastructure

**Lesson 4:** Troubleshooting the application of GPOs

**Lab B:** Troubleshooting Group Policy infrastructure

## **Module 20: Managing user settings with Group Policy**

**Lesson 1:** Implementing administrative templates

**Lesson 2:** Configuring Folder Redirection, software installation, and scripts

**Lesson 3:** Configuring Group Policy preferences

**Lab:** Managing user settings with Group Policy

## **Module 21: Securing Active Directory Domain Services**

**Lesson 1:** Securing domain controllers

**Lesson 2:** Implementing account security

**Lesson 3:** Implementing audit authentication

**Lesson 4:** Configuring managed service accounts

**Lab:** Securing AD DS

## **Module 22: Deploying and managing AD CS**

**Lesson 1:** Deploying CAs

**Lesson 2:** Administering CAs

**Lesson 3:** Troubleshooting and maintaining CAs

**Lab:** Deploying and configuring a two-tier CA hierarchy

## **Module 23: Deploying and managing certificates**

**Lesson 1:** Deploying and managing certificate templates

**Lesson 2:** Managing certificate deployment, revocation, and recovery

**Lesson 3:** Using certificates in a business environment

**Lesson 4:** Implementing and managing smart cards

**Lab:** Deploying and using certificates

## **Module 24: Monitoring, managing, and recovering AD DS**

**Lesson 1:** Monitoring AD DS

**Lesson 2:** Managing the Active Directory database

**Lesson 3:** Active Directory backup and recovery options for AD DS and other identity and access solutions

**Lab:** Recovering objects in AD DS

**Müddət:** 12 həftə (48 saat + 4 saat)

**Qeyd:** Mövzu başlıqları qısa şəkildə təqdim olunub. Tədris laboratoriya əsaslı həyata keçirilir.