

KOENIG SOLUTIONS · COURSE OUTLINE

Windows Server Administration Fundamentals

Learn to install, configure and maintain Windows Server, covering Active Directory, storage, performance and networking essentials.

6

MODULES

25

TOPICS

COURSE OVERVIEW

This course covers Windows Server roles, hardware components, storage solutions and maintenance practices, followed by administration through server interfaces, administrative tools and PowerShell basics. It then addresses Active Directory Domain Services, including organizational units, users, groups, computers and group policy management, alongside authentication and authorization concepts. Storage and file management topics cover file systems, disk management, storage spaces, RAID and permissions, while server performance management explores monitoring tools, event logs, and backup and recovery options. The course concludes with network essentials, including IP addressing, subnetting, DNS, DHCP, VPN, remote access and firewall configuration.

WHO THIS COURSE IS FOR

System Administrators

Network Administrators

IT Support Engineers

Infrastructure Engineers

Server Administrators

LEARNING OBJECTIVES

- Identify server roles and hardware components
- Install and configure Windows Server systems
- Explain Server Core and PowerShell basics
- Describe Active Directory Domain Services structure
- Configure organizational units, users, groups and group policy
- Apply file systems, disk management and storage spaces
- Monitor server performance using Task Manager and Event Viewer
- Configure DNS, DHCP, VPN and firewall settings

6 Modules, 25 Topics

01

Server Overview

TOPICS

Understanding Server Roles · Installing and Configuring Servers · Identifying Server Hardware Components · Understanding Enterprise Storage Solutions · Understanding Maintenance Practices

02

Managing Windows Server 2016

TOPICS

- Understanding Windows Server Interfaces
- Using Administrative Tools
- Understanding Server Core and PowerShell Basics
- Using Windows Server Manager
- Performing Basic Server Maintenance

03

Understanding Active Directory

TOPICS

- Overview of Active Directory Domain Services (AD DS)
- Understanding Organizational Units, Users, Groups, and Computers
- Understanding Group Policy and Policies Management
- Basics of Authentication and Authorization

04

Storage and File Management

TOPICS

- Understanding File Systems (NTFS, ReFS, and FAT32)
- Understanding Disk Management (Basic vs. Dynamic Disks)
- Configuring Storage Spaces and RAID
- Understanding File and Share Permissions

05

Understanding Server Performance Management

TOPICS

- Monitoring Performance using Task Manager and Performance Monitor
- Understanding Event Viewer and Logs
- Understanding Windows Server Backup and Recovery Options

06

Understanding Network Essentials

TOPICS

- Understanding IP Addressing, Subnetting, and Default Gateway
- Configuring DNS and DHCP
- Understanding VPN and Remote Access
- Understanding Firewalls and Network Security

WHAT IS INCLUDED

Everything You Need to Succeed

- Koenig course material for every module
- Hands-on exercises throughout the course
- Delivery by certified instructors and subject matter experts
- Course completion certificate from Koenig

Who We Are

Established in 1993, Koenig Solutions is a globally recognised training provider with 35+ technology partnerships, 5,000+ training programmes and a network of certified instructors and subject matter experts, supporting individuals and enterprise teams worldwide.

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