SETC Training Corporate Logo

Server 2022 Training: Installation, Management & Troubleshooting (SRV16C, 4 jours)

Description

The course Installation, Management & Troubleshooting (Server 2019 Training) explores Windows Server 2019 system administration. The training covers server installation & configuration including Active Directory domain services, domains & forests, DNS, DHCP & more. The course discusses Active Directory user accounts & security groups, file systems & file sharing, the Windows firewall, IPv4 & IPv6 addressing, disks & partitions to name a few. You learn to monitor a Windows Server 2019 and to troubleshoot everything from server startup to connectivity problems & security breaches. This is a complete exploration of Windows Server 2019.

Tarifs

- Tarification: $3,750/person
- Rabais de 10% lorsque vous inscrivez 3 personnes.

Plan de cours

Introducing Windows Server 2022

- Windows Server 2016 Overview
- Installing Windows Server 2016 R2
- Upgrading from Server 2008 R2
- Windows Server 2016 Configuration
- Windows Server 2016 Management
- The Role of the Domain Controller
- Introduction to Active Directory: Forests, Trees and Domains
- The Role of GPOs
- Working with PowerShell

Working with Active Directory Domain Services

- Understanding the Domain Structure
- About Read-Only Domain Controllers
- Installing Active Directory Domain Services
- Configuring Active Directory Domain Services
- Understanding the Role of Organizational Units
- Exploring Security Groups
- Working with User Accounts
- Working with Computer Accounts
- Working with Service Accounts
- Delegating Administration
- Exploring NTFS Permissions

More on Active Directory Management

- Implementing Audit and Control
- Exploring Command Line Tools for ADDS Administration
- Exploring PowerShell Extensions for ADDS Administration
- Performing Common Operations with PowerShell
- Performing Bulk Operations with PowerShell

Implementing TCP IP

- TCPIP Addressing Essentials: IPv4
- Overview of IP Communication: Local and Remote

The Logical Network in IPv4: IP Addresses and Subnets
Considering the Role of VLANs
About Network Services: DHCP and DNS
Configuring IPv4 Networking
Using NIC Teams
Troubleshooting IPv4 Networking
Overview of IPv6 (Optional)
Configuring IPv6 Networking (Optional)
Configuring IPv6 Services (Optional)

Implementing Dynamic Addressing with DHCP

Considerations for a DHCP Implementation: Routers and Virtual Networks
Overview of the DHCP Leasing Process
Installing the DHCP Role
Creating and Managing Scopes
Managing and Monitoring DHCP
Troubleshooting DHCP

Implementing DNS

Understanding the Host Name Resolution Process
The Role of the DNS Server: Primary and Stub Zones
Installing the DNS Role
Creating Forward Lookup Zones
Creating Reverse Lookup Zones
Understanding the ADDS Records
Creating A and AAAA Records
Managing and Monitoring DNS
Troubleshooting DNS
About Name Resolution on Linux Machines (Optional)

Implementing Local Storage

Overview of Disks, Volumes and File Systems
Installing File and Storage Services
Working with Disks
Working with FDISK
Creating and Managing Volumes
Creating and Managing Storage Spaces
Checking for Drive Integrity and Faults
Troubleshooting Local Storage

Implementing File and Print Services

Creating and Managing Shares
Working with Shadow Copies
Implementing Share Security
Installing and Managing DFS
Creating and Managing a DFS Tree
Working with iSCSI
Configuring Network Printing

Exploring Group Policy

The Role of Group Policy
About GPOs and where they are Linked
Working with Templates and OUs
Creating a GPO
Linking a GPO

Pushing Changes with GPO
Determining Net Effect

Mastering Security

Using GPOs for Security
Controlling Default Behaviors
Restricting User Actions and OS Configuration
Configuring Windows Firewall
Restricting Software
Troubleshooting GPOs

Mastering Troubleshooting

The Importance of the Information Management Process
Configuring and Working with Event Logs
Overview of Troubleshooting Methods
Using Tools to Detect Weaknesses and Survey the Topology
Using Network Sniffers to understand the traffic
Deciphering the Packets and Taking Action