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¿Por qué ExecuTrain?

ExecuTrain es un proveedor de entrenamiento corporativo a nivel internacional y líder mundial en la capacitación empresarial. Contamos con 28 años y más de 62 mil personas capacitadas en zona occidente.

¿Por qué ExecuTrain?

Te guiamos en la definición de tus requerimientos de capacitación, en las diferentes etapas:

- Detección de necesidades, evaluación de conocimientos, plan de capacitación y seguimiento posterior para elegir el plan de capacitación como tú lo necesitas.
- El más amplio catálogo de cursos, desde un nivel básico hasta los niveles de conocimientos más especializados.
- En ExecuTrain el material y la metodología están diseñados por expertos en aprendizaje humano. Lo que te garantiza un mejor conocimiento en menor tiempo.
- Tú puedes confiar y estar seguro del aprendizaje porque nuestro staff de instructores es de primer nivel, algunos de los cuales son consultores en reconocidas empresas.
- No pierdas tu tiempo, los cursos están diseñados para un aprendizaje práctico.
- Nuestra garantía: Nuestro compromiso es que tú aprendas, si no quedas satisfecho con los resultados del programa, podrás volver a tomar los cursos hasta tu entera satisfacción o la devolución de tu dinero.

Modalidad de servicio

- Cursos de Calendario
- Cursos Privados: On site y en nuestras instalaciones.
- Cursos Personalizados: Adaptamos el contenido del curso y su duración dependiendo de la necesidad del cliente.
- E-Training: cursos a distancia de forma interactiva, mejorando la capacidad de aprendizaje de nuestros participantes guiados por un instructor en vivo.



Duración: 5 días

WS-011/ Windows Server 2019 Administration

Este curso de cinco días dirigido por un instructor está diseñado principalmente para profesionales de TI que tienen cierta experiencia con Windows Server. Está diseñado para profesionales que serán responsables de administrar la identidad, las redes, el almacenamiento y el cómputo utilizando Windows Server 2019, y que necesitan comprender los escenarios, los requisitos y las opciones disponibles y aplicables a Windows Server 2019. El curso enseña TI profesionales las habilidades de administración fundamentales necesarias para implementar y admitir Windows Server 2019 en la mayoría de las organizaciones.

Perfil de público

Este curso está destinado a profesionales de la tecnología de la información (TI) que tienen experiencia trabajando con Windows Server y están buscando un solo curso de cinco días que cubra componentes y tecnologías de administración centrales en Windows Server 2019. Este curso también ayuda a los administradores de servidores de Windows anteriores Versiones de servidor para actualizar sus conocimientos y habilidades relacionadas con Windows Server 2019. Además, este curso puede ayudar a las personas que buscan materiales de preparación para aprobar exámenes relacionados con Windows Server. El curso también es para personas con un rol de servicio de asistencia que deseen realizar la transición al mantenimiento del servidor.

Prerrequisitos

- Alguna exposición y experiencia con los conceptos y tecnologías de los Servicios de dominio de Active Directory (AD DS) en Windows Server 2012 o Windows Server 2016.
- Alguna exposición y experiencia con los conceptos y tecnologías de los Servicios de dominio de Active Directory (AD DS) en Windows Server 2012 o Windows Server 2016.
- Experiencia y comprensión de las principales tecnologías de red, como el direccionamiento IP, la resolución de nombres y el Protocolo de configuración dinámica de host (DHCP).
- Experiencia de trabajo y comprensión de Microsoft Hyper-V y conceptos básicos de virtualización de servidores.
- Conocimiento de las mejores prácticas básicas de seguridad.
- Experimente trabajar de manera práctica con los sistemas operativos cliente de Windows, como Windows 8, Windows 8.1 o Windows 10.
- Experiencia básica con Windows PowerShell.

Al finalizar el curso

Después de completar este curso, los estudiantes podrán:

- Use técnicas y herramientas administrativas en Windows Server 2019.
- Implementar servicios de identidad.
- Administrar servicios de infraestructura de red.
- Configurar servidores de archivos y almacenamiento.
- Administre máquinas virtuales usando virtualización Hyper-V y contenedores
- Implementar soluciones de alta disponibilidad y recuperación ante desastres.
- Aplicar características de seguridad para proteger recursos críticos.
- Configurar servicios de escritorio remoto.
- Configurar una implementación de infraestructura de escritorio basada en máquina virtual.
- Implementar acceso remoto y servicios web.
- Implemente la supervisión del servicio y la supervisión del rendimiento, y aplique la resolución de problemas.
- Realizar actualizaciones y migraciones relacionadas con AD DS y el almacenamiento

Módulos

Module 1: Windows Server Administration Overview
This module describes how to distinguish different Windows Server 2019 editions and techniques for deployment, servicing and activation. The module also introduces Windows Server Core and compares it with the Desktop Experience version. The module describes tools and concepts for administering Windows Server, such as Windows Admin Center, PowerShell, and delegation of privileges

Lessons

- Introducing Windows Server 2019
- Windows Server Core Overview
- Windows Server administration principles and tools overview

Lab : Deploying and configuring Windows Server

- Deploying and configuring Server Core
- Implementing and using remote server administration

After completing this module, students will be able to:

- Describe Windows Server as well as techniques for deployment, servicing and activation.
- Describe Windows Server Core, its specifics and ways to administer it.

Module 2: Identity Services in Windows Server
This module introduces identity services and describes Active Directory Domain Services (AD DS) in a Windows Server environment. The module describes how to deploy domain controllers in AD DS, as well as the Azure Active Directory (AD) and the benefits of integrating Azure AD with AD DS. The module also covers Group Policy basics and how to configure group policy objects (GPOs) in a domain environment. Finally, the module describes the role of Active Directory certificate services and certificate usage.

Lessons

- AD DS Overview
- Deploying Windows Server domain controllers

- Azure AD overview
 - Implementing Group Policy
 - Active Directory Certificate Services overview
- Lab : Implementing Identity Services and Group Policy**
- Deploying new domain controller on Server Core
 - Configuring Group Policy
 - Deploying and using certificate services
 - Explain Group Policy basics and configure GPOs in a domain environment
 - Describe the role of Active Directory certificate services and certificate usage

After completing this module, students will be able to:

- Describe AD DS in a Windows Server environment.
- Deploy domain controllers in AD DS.
- Describe Azure AD and benefits of integrating Azure AD with AD DS.

Module 3: Network Infrastructure services in Windows Server
This module describes how to implement core network infrastructure services in Windows Server. The module covers how to deploy, configure and manage DNS and IPAM. The module also describes how to use Remote Access Services.

Lessons

- Deploying and managing DHCP
- Deploying and managing DNS service
- Deploying and managing IPAM
- Remote Access Services in Windows Server

Lab : Implementing and configuring network infrastructure services in Windows Server

- Deploying and configuring DHCP
- Deploying and configuring DNS
- Implementing Web Application Proxy

After completing this module, students will be able to:

- Describe, deploy and configure DHCP service.
- Deploy, configure and manage DNS.
- Describe, deploy and manage IPAM.

Module 4: File Servers and Storage management in Windows Server This module describes how to configure file servers and storage in Windows Server. The module covers file sharing and deployment of Storage Spaces technology. The module describes how to implement data deduplication, iSCSI based storage in Windows Server, and finally, how to deploy DFS.

Lessons

- Volumes and File Systems in Windows Server
- Implementing sharing in Windows Server
- Implementing Storage Spaces in Windows Server
- Implementing Data Deduplication
- Implementing iSCSI
- Deploying Distributed File System

Lab : Implementing storage solutions in Windows Server

- Implementing Data Deduplication
- Configuring iSCSI storage
- Configuring redundant storage spaces
- Implementing Storage Spaces Direct

After completing this module, students will be able to:

- Implement sharing in Windows Server
- Deploy Storage Spaces technology
- Implement the data deduplication feature
- Implement iSCSI based storage
- Deploy and manage Distributed File System (DFS)

Module 5: Hyper-V virtualization and containers in Windows Server This module describes how to implement and configure Hyper-V VMs and containers. The module covers key features of Hyper-V in Windows Server, describes VM settings, and how to configure VMs in Hyper-V. The module also covers security technologies used with virtualization, such as shielded VMs, Host Guardian Service, admin-trusted and TPM-trusted attestation, and KPS.

Lessons

- Hyper-V in Windows Server
- Configuring VMs

- Securing virtualization in Windows Server
 - Containers in Windows Server
 - Overview of Kubernetes
- Lab : Implementing and configuring virtualization in Windows Server**
- Creating and configuring VMs
 - Installing and configuring containers

After completing this module, students will be able to:

- Describe the key features of Hyper-V in Windows Server.
- Describe VM settings and deploy and configure VMs in Hyper-V.
- Explain the use of security technologies for virtualization.
- Describe and deploy containers in Windows Server.
- Explain the use of Kubernetes on Windows.

Module 6: High Availability in Windows Server This module describes current high availability technologies in Windows Server. The module describes failover clustering and considerations for implementing it, and how to create and configure failover clustering. The module also explains stretch clusters and options for achieving high availability with Hyper-V VMs.

Lessons

- Planning for failover clustering implementation
- Creating and configuring failover cluster
- Overview of stretch clusters
- High availability and disaster recovery solutions with Hyper-V VMs

Lab : Implementing failover clustering

- Configuring storage and creating a cluster
- Deploying and configuring a highly available file server
- Validating the deployment of the highly available file server

After completing this module, students will be able to:

- Describe failover clustering and the considerations for implementing it.
- Create and configure failover clusters.
- Describe stretch clusters.
- Describe options to achieve high availability with Hyper-V VMs.

Module 7: Disaster recovery in Windows Server
 This module describes disaster recovery technologies in Windows Server and how to implement them. The module covers how to configure and use Hyper-V Replica and describes Azure Site Recovery. The module also covers how to implement Windows Server backup and describes the Azure Backup service.

Lessons

- Hyper-V Replica
- Backup and restore infrastructure in Windows Server

Lab : Implementing Hyper-V Replica and Windows Server Backup

- Implementing Hyper-V Replica
- Implementing backup and restore with Windows Server Backup

After completing this module, students will be able to:

- Describe and implement Hyper-V Replica.
- Describe Azure Site Recovery
- Describe and implement Windows Server backup.
- Describe the Azure Backup service.

Module 8: Windows Server security
 This module describes Windows Server security features and how to implement them. The module covers credentials used in Windows Server and explains how to implement privileged access protection. In addition to describing methods and technologies for hardening Windows Server security, the module explains how to configure Just Enough Administration (JEA) and how to secure SMB traffic. Finally, the module covers Windows Update, its deployment and management options.

Lessons

- Credentials and privileged access protection
- Hardening Windows Server
- JEA in Windows Server
- Securing and analyzing SMB traffic
- Windows Server update management

Lab : Configuring security in Windows Server

- Configuring Windows Defender Credential Guard
- Locating problematic accounts
- Implementing LAPS

After completing this module, students will be able to:

- Describe credentials used in Windows Server.
- Explain how to implement privileged access protection.
- Describe methods and technologies to harden security in Windows Server.
- Describe and configure Just Enough Administration (JEA).
- Secure SMB traffic in Windows Server.
- Describe Windows Update and its deployment and management options.

Module 9: RDS in Windows Server
 This module describes key Remote Desktop Protocol (RDP) and Virtual Desktop Infrastructure (VDI) features in Windows Server. The module covers how to deploy session-based desktops and describes personal and pooled virtual desktops.

Lessons

- Overview of RDS
- Configuring a session-based desktop deployment
- Overview of personal and pooled virtual desktops

Lab : Implementing RDS in Windows Server

- Implementing RDS
- Configuring Session Collection Settings and using RDC
- Configuring a virtual desktop template

After completing this module, students will be able to:

- Describe Remote Desktop Services (RDS) in Windows Server.
- Describe and deploy session-based desktops.
- Describe personal and pooled virtual desktops.

Module 10: Remote access and web services in Windows Server

This module describes how to implement virtual private networks (VPNs), Network Policy Server (NPS), and Microsoft Internet Information Services (IIS). The module describes Always On VPN functionality, as well as how to configure NPS and Web Server (IIS) in Windows Server.

Lessons

- Implementing VPNs
- Implementing Always On VPN
- Implementing NPS
- Implementing Web Server in Windows Server

Lab : Deploying network workloads

- Implementing VPN in Windows Server
- Deploying and Configuring Web Server

After completing this module, students will be able to:

- Describe VPN options in Windows Server.
- Describe Always On VPN functionality.
- Describe and configure NPS.
- Describe and configure Web Server (IIS).

Module 11: Server and performance monitoring in Windows Server

This module describes how to implement service and performance monitoring, and apply troubleshooting in Windows Server. The module highlights monitoring tools and describes how to monitor performance, including event logging and how to perform event logging monitoring for troubleshooting purposes.

Lessons

- Overview of Windows Server monitoring tools
 - Using Performance Monitor
 - Monitoring event logs for troubleshooting
- Lab : Monitoring and troubleshooting Windows Server**
- Establishing a performance baseline
 - Identifying the source of a performance problem
 - Describe monitoring tools in Windows Server.

- Describe performance monitoring and use it in Windows Server.
- Describe event logging and perform event logging monitoring for troubleshooting purposes.

Module 12: Upgrade and migration in Windows Server

This module describes how to perform upgrades and migrations for AD DS, Storage, and Windows Server. The module covers tools to use for AD DS migration. The module also covers the Storage Migration Service, and finally, Windows Server migration tools and usage scenarios.

Lessons

- AD DS migration
- Storage Migration Service
- Windows Server migration tools

Lab : Migrating Server workloads

- Implementing Storage Migration Service

After completing this module, students will be able to:

- Describe tools to use for AD DS migration.
- Describe the Storage Migration Service.
- Describe Windows Server migration tools and their usage scenarios.