Installing and Configuring Windows Server 2012 R2

Varighed: 5 Days   **Kursus Kode: M20410**   **Leveringsmetode: Elearning (Self-paced)**

Beskrivelse:

This version of this course 20410A utilizes pre-release software in the virtual machines for the labs.
This Microsoft On-Demand course is part one, of a series of three courses, which provide the skills and knowledge necessary to implement a core Windows Server 2012 infrastructure in an existing enterprise environment. The three courses in total collectively cover implementing, managing, maintaining, and provisioning services and infrastructure in a Windows Server 2012 environment. While there is some cross-over in skillset and tasks across the courses, this course primarily covers the initial implementation and configuration of those core services, such as Active Directory Domain Services, networking services, and initial Hyper-V configuration.
EXCLUSIVE! This course is also available as part of our Microsoft Total Access collection subscription which includes access to all available Microsoft Official Course On-Demand titles for 12 months. Learn more about the MicrosoftTotal Access collection on
http://emea.gkondemand.com/ or call your Training Advisor for details.

Målgruppe:

This GK Digital Learning course is intended for Information Technology (IT) Professionals who have good Windows operating system knowledge and experience and want to acquire the skills and knowledge necessary to implement the core infrastructure services in an existing Windows Server 2012 environment. Although students would benefit from having some previous Windows Server experience, they must have good hands-on Windows Client experience with Windows Vista, Windows 7, or Windows 8.

Agenda:

- **After completing this course, students will be able to:**

- Install and configure Windows Server 2012

- Describe Active Directory Domain Services and install a domain controller

- Create and configure user, group, and computer objects

- Use Windows PowerShell and other command-line tools to create and configure AD DS objects

- Configure IPv4 for simple scenarios

- Install and configure a DHCP server

- Install and configure DNS service

- Configure IPv6 for simple scenarios

- Configure local storage on a server

- Create and secure files shares and shared printers

- Create and manage Group Policy objects

- Secure Windows Servers by Using Group Policy Objects

- Implement Server Virtualization with Hyper-V

Forudsætninger:

Before attending this course, students must have:

- A good understanding of networking fundamentals.
- An understanding and experience configuring security and administration tasks in an Enterprise environment.
- Experience supporting or configuring Microsoft Windows clients.

Indhold:

Module 1: Deploying and Managing Windows Server 2012

This module introduces the new Windows Server 2012 administrative interface.This module coversthe different roles and features that are available with the Windows Server 2012 operating system. It also discusses the various installation options from which you can choose when deploying Windows Server 2012.

Lessons

- Windows Server 2012 Overview
- Overview of Windows Server 2012 Management
- Installing Windows Server 2012
- Post-Installation Configuration of Windows Server 2012
- Introduction to Windows PowerShell

Lab : Deploying and Managing Windows Server 2012

- DeployingWindows Server 2012
- Configuring Windows Server 2012 Server Core
- Managing Servers
- UsingWindows PowerShell to Manage Servers

Module 2: Introduction to Active Directory Domain Services This module introduces Active Directory Domain Services (AD DS) in Windows Server 2012. It covers general ADDS infrastructure including forests, trees, schema, Global Catalog, Operations Masters,as well asthe installation and configuration ofDomain Controllers.Lessons

- Overview of Active Directory Domain Services
- Overview of Domain Controllers
- Installing a Domain Controller

Lab : Installing Domain Controllers

- Installing a Domain Controller
- Installing a Domain Controller by using IFM

Module 3: Managing Active Directory Domain Services Objects This module covers configuring Active Directory Objects such as users, groups and computers. It also covers functionality of Active directory Administrative tools and the configuration of user profiles. Additionally, it covers delegating permissions to perform AD DS administration.Lessons

- Managing User Accounts
- Managing Groups Accounts
- Managing Computer Accounts

Module 5: Implementing IPv4 This module covers IPv4 addressing. It details the various IPv4 components, covers Subnetting and Supernetting as well as details on general troubleshooting and configuring IPv4 addresses.Lessons

- Overview of TCP/IP
- Understanding IPv4 Addressing
- Subnettingand Supernetting
- Configuring and Troubleshooting IPv4

Lab : Implementing IPv4

- Identifying Appropriate Subnets
- Troubleshooting IPv4

Module 6: Implementing DHCP This module covers the installationand configuration of DHCP as well as managing a DHCP database. It also covers security and monitoring of DHCP, including auditing and logging.Lessons

- Installing a DHCP Server Role
- Configuring DHCP Scopes
- Managing a DHCP Database
- Securing and Monitoring DHCP

Lab : Implementing DHCP

- Implementing DHCP
- Implementing DHCP Relay

Module 7: Implementing DNS This module covers name resolution for Windows Server and clients. It details the installation ofa DNS server and configuring Active Directory Integrated DNS zones.Lessons

- Name Resolution for Windows Client and Servers
- Installing and Managinga DNS Server
- ManagingDNS Zones

Lab : Implementing DNS

- Installing and Configuring DNS
- Creating Host Records in DNS
- Managing the DNS Server Cache

Module 8: Implementing IPv6 This module covers understanding andimplementing IPv6 addressing. It covers configuration and troubleshooting as well as co-existence with IPv4 using transition technologies.Lessons

- Overview of IPv6
- IPv6 Addressing
- Coexistence with IPv4
- IPv6 Transition Technologies

Lab : Implementing IPv6

Module 10: Implementing File and Print Services This module covers securing files, folders and network file shares, in addition to using shadow copies to protect network file shares. It also covers configuring network printing and creating a printer pool.Lessons

- Securing Files and Folders
- Protecting File Shares with Shadow Copies
- Configuring Network Printing

Lab : Implementing File and Print Services

- Creating and Configuring a File Share
- Configuring Volume Shadow Copy
- Creating and Configure a Printer Pool

Module 11: Implementing a Group Policy Infrastructure This module will cover creating and managing Group Policy objects as well as how to configure group policy processing. It will also cover Implementing a central store for administrative templates.Lessons

- Overview of Group Policy
- Group Policy Processing
- Implementing a Central Store for Administrative Templates

Lab : Implementing Group Policy

- Configuring a Central Store
- Creating GPOs

Module 12: Securing Windows Servers by Using Group Policy Objects This module covers increasing security on Windows servers by using Group Policy objects. It also covers configuring security settings via group policy.Lessons

- Windows Security Overview
- Configuring Security Settings
- Restricting Software
- Configuring Windows Firewall with Advanced Security

Lab : Lab A: Increasing Security for Server Resources

- Using Group Policy to Secure Member Servers
- Auditing File System Access
- Auditing Domain Logons

Lab : Lab B: Configuring AppLocker and Windows Firewall

- Configuring AppLocker Policies
- Configuring Windows Firewall

Module 13: Implementing Server Virtualization with Hyper-V This module covers installing

- Delegating Administration

Lab : Managing Active Directory Domain Services Objects

- Delegating Administration for a Branch Office
- Creating and Configuring User Accounts in AD DS
- Managing Computer Objects in AD DS

Module 4: Automating Active Directory Domain Services AdministrationThis module covers using command-line tools to configure and administer Active Directory Domain Services. It introduces Windows PowerShell andActive Directory Cmdlets to perform bulk administrative operations.Lessons

- Using Command-line Tools for Administration
- Using Windows PowerShell for Administration
- Performing Bulk Operations with Windows PowerShell

Lab : Automating AD DS Administration by Using Windows PowerShell

- Creating User Accounts and Groups by Using Windows PowerShell
- Using Windows PowerShell to Create User Accounts in Bulk
- Using Windows PowerShell to Modify User Accounts in Bulk

- Configuring an IPv6 Network
- Configuring an ISATAP Router

Module 9: Implementing Local StorageThis module covers the storage configuration options for Windows Server 2012, including managing disks and volumes and implementing file systems. It also coverscreating and managing Storage Pools.Lessons

- Overview of Storage
- Managing Disks and Volumes
- Implementing Storage Spaces

Lab : Implementing Local Storage

- Installing and Configuring a New Disk
- Resizing Volumes
- Configuring a Redundant Storage Space

and configuring Hyper-V virtual machines as well as understanding and describing Microsoft Virtualization technologies. It also covers configuring virtual storage and virtual networks.Lessons

- Overview of Virtualization Technologies
- Implementing Hyper-V
- Managing Virtual Machine Storage
- Managing Virtual Networks

Lab : Implementing Server Virtualization with Hyper-V

- Installing theHyper-V Server Role
- Configuring Virtual Networking
- Creating and Configuring a Virtual Machine
- Using Virtual Machine Snapshots

Flere Informationer:

For yderligere informationer eller booking af kursus, kontakt os på tlf.nr.: 44 88 18 00

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