GBW016 – 2008 Server // Win 7
Key Microsoft skills for 800xA 2008 R2 and Win7 (5 days)

Course goal

The course is focused on the key Microsoft skills required to configure and maintain an 800xA control system installation. This course is instructor led over 5 days.

Learning objectives

Upon completion of this course the participants will be able to:

- Install and configure Windows Server 2008r2
- Install and Configure Windows 7.
- Configure networking and network services.
- Configure Active Directory Domain Services (AD DS).
- Manage Active Directory Domain Services (AD DS).
- Configure Active Directory object administration and Domain Trust.
- Create and manage Group Policy objects.
- Configure user and computer settings by using Group Policy.
- Implement security settings by using Group Policy.
- Monitor and maintain Windows Server 2008.
- Manage Windows Server 2008 backup, restore, and recovery.
- Methods used to transfer primary roles from a failed Domain Server to a new Domain server.

Participant profile

This training is targeted to system engineers, administrators and system integrators with experience of maintaining Windows operating systems.

Duration

The duration is 5 days.

Prerequisites

A good working knowledge of Windows Operating system.

Topics

Installing Windows
Installation of Windows Server 2008 R2
Installation of Windows 7
Logical aspects of Active Directory:-
Schema, Configuration and Domain partitions
Domains, Trees and Forests.
Organisational units.
Kerberos Authentication
Physical aspects of Active Directory:-
Active Directory Replication, Connection Objects, KCC, Sites and Services, Subnets.
DC Promo, Global Catalog Servers, Tombstone Lifetime
Operations Masters:-
Schema Master, Domain Naming Master, PDC Emulator, RID Master, Infrastructure Master.
Transferring and Seizing Roles
Internet Information Service
Overview of IIS, configuring SSL
Virtualisation Overview of Hyper-V

Course type and methods

This is an instructor led course with interactive classroom discussions and associated lab exercises.

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Course outline

Module 1: Overview of the Windows Server 2008 Management
In this module, students learn the Windows Server 2008 environment including the roles, features, and the tools used to perform effective server management.
Lessons
• Lesson 1: Understanding the Windows Server 2008 Environment
• Lesson 2: Overview of Windows Server 2008 Server Roles and Features
• Lesson 3: Windows Server 2008 Administration Tools

Module 2: Managing Windows Server 2008 Infrastructure Roles
In this module, students learn about IPv6 addressing and how to install and configure the DNS and DHCP server infrastructure roles.
Lessons
• Lesson 2: Overview of the Domain Name System Server Role
• Lesson 3: Configuring DNS Zones
• Lesson 4: Overview of the DHCP Server Role
• Lesson 5: Configuring DHCP Scopes and Options

Module 6: Configuring and Securing Remote Access
In this module, students will learn how to secure remote access using features such as a Virtual Private Networks, Network Access Protection (NAP), and Direct Access.
Lessons
• Lesson 1: Configuring a Virtual Private Network Connection
• Lesson 2: Overview of Network Policies
• Lesson 5: Overview of Direct Access
• Lesson 6: Deploying Direct Access

Module 7: Managing Active Directory Domain Services
In this module, students will learn about the Active Directory infrastructure and how to manage AD DS objects.
Lessons
• Lesson 1: Overview of the Active Directory Infrastructure
• Lesson 2: Working with Active Directory Administration Tools
• Lesson 3: Managing User Accounts
• Lesson 4: Managing Computer Accounts
• Lesson 5: Managing Groups
• Lesson 6: Using Queries to Locate Objects in AD DS

Module 8: Configuring Active Directory Object Administration and Domain Trust
In this module, students will learn how to configure and manage AD DS object permissions; and configure trust between AD DS domains
Lessons
• Lesson 1: Configuring Active Directory Object Administration
• Lesson 2: Configuring Active Directory Trusts

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Module 9: Creating and Managing Group Policy Objects
In this module, students will learn how to create and manage Group Policy Objects (GPOs).
Lessons
• Lesson 1: Overview of Group Policy
• Lesson 2: Configuring the Scope of Group Policy Objects
• Lesson 3: Managing Group Policy Objects
• Lesson 4: Evaluating and Troubleshooting Group Policy Processing

Module 10: Using Group Policy to Configure User and Computer Settings
In this module, students will understand the specific settings that can be managed using Group Policy
Lessons
• Lesson 1: Using Group Policy to Configure Folder Redirection and Scripts
• Lesson 2: Using Administrative Templates to Manage Users and Computers
• Lesson 4: Deploying Group Policy Preferences

Module 11: Implementing Security Settings Using Group Policy
In this module, students will learn how to secure network clients using Group Policy.
Lessons
• Lesson 1: Overview of Security Settings
• Lesson 3: Restricting Group Membership and Access to Software (AppLocker)

Module 13: Monitoring and Maintaining Windows Server 2008.
In this module, students will learn how to plan for and implement performance baselines and perform server monitoring using monitoring tools.
Lessons
• Lesson 1: Planning Maintenance Tasks
• Lesson 2: Calculating a Server Baseline
• Lesson 3: Interpreting Performance Counters
• Lesson 4: Selecting Appropriate Monitoring Tools

Module 14: Managing Windows Server 2008 Backup, Restore, and Recovery
In this module, students will learn how to plan for and identify backup and restore strategies and to identify steps needed to recover from server start up issues.
Lessons
• Lesson 1: Planning and Implementing File Backups on Windows Server 2008
• Lesson 2: Planning and Implementing File Recovery
• Lesson 3: Recovering Active Directory
• Lesson 4: Troubleshooting Windows Server Startup

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