Windows Server 2008: Server Administrator

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Prerequisites: The users must have an understanding of computers and computer networks. Previous experience with Microsoft Server is helpful.

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Course description: Microsoft Windows Server 2008 has many features that need to be considered before administering a network. This course will cover many aspect of administration of Windows Server 2008, starting with preparing for deployment, network infrastructure and Active Directory. Once the server is in place Group Policies will need to be created and the course will show you how to do that. After that comes application servers, file and print services. The most important part of any network is security and we will cover that. From there the courses moves to server administration, monitoring and maintenance and then cover disaster recovery. At the end the newest of technologies virtualization is covered with the Microsoft Hyper V technology.

Course outline:

Planning Server Deployment

- Introduction
- Deploying Windows Server
- 2008
- Document Everything
- Help for the Planning Process
- Industry Standards
- Microsoft Operations
 Framework
- Planning and Managing
- Service Level Agreement
- Solution Accelerators
- Single Server Versions
- Licenses
- What to Consider
- Planning for Upgrading Server
- Clean Install is the Best
- Bitlocker
- Device Driver Issues
- Planning the Installation
- · Hands On VS. Automated
- Activating the OS
- Upgrade or Migrate
- Which Edition of Server 2008

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- 32 Bit vs. 64 Bit
- Summary

TCP_IP Addressing

- Introduction
- TCP/IP Overview
- Address Ranges

- Classless Inter Domain Routing
- Private Addresses
- TCP/IP Address Planning
- Address Planning Scenario 1
- Address Planning Scenario 2
- Manual or Dynamic Addressing
 Variable Length Subnet Mask
- Internal Subnets
- Client Configuration
- DHCP Considerations
- Packet Routing
- Summarv
- Summary

DHCP and IPV6 Overview

Introduction

- DHCP and IPV6: Demo
- TCP/IP v6 Overview
- IPv6 Address
- Routers
- Global Addresses
- Link Local Address
- Unique Local Address
- Address States
- Next Generation TCP/IP
- ISATAP
- 6 to 4
- Teredo
- Summary
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Namespace Planning

Introduction

- OSI Stack Overview
- TCP/IP Stack
- Choosing Domain Name
- DNS Servers
 Single Name Resolution
- Single Name Resolution
- WINS Servers
- Access From the Internet
- Practice Planning
- Summary

Active Directory Prep Overview Introduction

- AD DS Overview
- AD DS Terms
- Domain Functional Level
- Forest Functional Level
- Domain Controller
- Organizational Unit
- Read Only Domain Controller
- Master of Operations
- Relative ID Master
- Global Catalog
- Active Directory: Demo
 Summary
- Outfindary

Active Directory Trust

- Introduction
- Trust Relationships
- AD DS Preparations
- Deployment Considerations
- Infrastructure Design

- One Name Domains
- Multiple Name Domains
- Domain Funtional Levels
- Forest Functional Level

Certificate Services

Federation Services

Group Policy Overview

Group Policy Overview

Policies vs. Preferences

Group Policy Application

Group Policy Application

· Application of Policies

Organizational Units

How Settings Apply

Group Policy: Demo

Group Policy Planning

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Preference Settings Categories

Site Planning

Considerations

Summarv

Introduction

New Features

What's New

WMI Filtering

Summary

Introduction

Considerations

Physical Network Preparations

Lightweight Directory Services

Rights Management Services

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- Group Policy Tools
- GPO Replication
- ADMX and ADML
- Central Store
- Starter GPOs
- Number of GPOs Needed
- Maintaining GPOs
- Delegating Control of GPOs
- Folder Redirection
- GP Software Installation
- · Which Method to use
- · Deploying Scripts with GP
- Group Policy Planning: Demo
- Summary

Application Servers Overview

- Introduction
- Application Servers Overview
- Traditional Application Concerns
- Web Application Concerns
- Updating Application Servers
- Authentication
- Windows Server 2008 Features
- Application Servers: Demo
- Summary

Application Servers

- Introduction
- Web Server Authentication
- SSL
- Web Application Concerns
- What does SQL do
- SQL Server Editions
- SQL Databases
- SQL Data Access
- Transaction Commitment Process
- Transaction Logs and Backup
- · Restoring from a Backup
- SQL Performance Considerations
- Testing Compatability
- Deploying Applications
- Windows Terminal Server
- Terminal Server Changes
- Terminal Server Concerns
- Application Server: Demo
- Summary

File and Print

- Introduction
- Windows Server Resource Access
- Public Folders
- Sharing Resources
- Protecting File Resources
- Sharing Considerations

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NTFS Permissions

- NTFS Permission Planning
- Share vs. NTFS Permissions

Demo: Configure Firewall

Remote Access - Protocol

NPS Server Configuration

Network Access Protection

Scenarios for Guest Network

System Health Validation

Remediation Server Group

DHCP Enforcement

802.1x Access Points

• Demo: Client Services

Server 2008 Admin Overview

Administration of Server 2008

· Common Day to Day Tasks

VPN Enforcement

• NPS as RADIUS Server

NPS as RADIUS Proxy

· Demo: Role for NPS

Demo: Create VPN

• Demo: Policy for VPN

Network Policy Server

Summary

Remote Access

Introduction

RADIUS

Summary

Introduction

Health Policy

Overview

IPsec

Summary

Introduction

Summary

Introduction

Server Core

Powershell

Summary

Introduction

Server Core Roles

Server Core Features

Server Manager

Command Line Tools

Remote Administration

· Demo: Server Manager

Demo: Active Directory

Demo: Command Line

Server Core Administration

Server Core Administration

Promoting Server Core to DC

• Demo: Delegate Computers Demo: Add User with

Monitoring and Maintenance

· Logged onto Server Core

Who is the Server Admin

· Demo: Delegate Roles

· Demo: Creating Firewall Rule

Proactively Monitoring

Monitoring Factors

Baseline

WSUS

Tools used for Monitoring

Monitoring Performance

Monitoring Tools in Detail

· Applications and Services Logs

Configuring Forwarded Events

Collecting Computer Config

Planning Event Forwarding

· WSUS installs as a Role

· High Availability Options

Network Load Balancing

WSUS Process

Demo: Reports

High Availability

Summary

Introduction

NLB Options

Disk Drives

• RAID 0 + 1

• RAID 1 + 0

• Which RAID to use

· Demo: Set Up RAID

Clustering Servers

Client and Shadow Copies

 Cluster Server Components Cluster Server Hardware

Network Infrastructure

Cluster Server Failover

NLB or Failover Cluster

Cluster Server Uses

Quorum Processes

Who Should Backup

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Quorum Types

Shadow Copies

Backups

• RAID 0

• RAID 1

• RAID 5

• RAID 6

Summary

Introduction

Features

iSCSI

Overview

Test Updates

Keeping Systems Up to Date

Demo: Performance Monitor

Custom Configuration

- File and Print: Demo
- Summary

Resource Management

- Introduction
- Encrypted File System
- Preparing for EFS
- Performance File Servers
- · Availability File Servers
- Data Storage
- Managing Storage
- Requirements
- Quotas
- Quota Types
- Quotas Set Limits
- File Screen Templates
- · Resource Management -
- Reports Demo: Resource Manager
- Demo: Reports
- Summary

DFS and Printing

- Introduction
- Distributed File System
- DFS Namespace
- DFS Namespace Two Types
- DFS Data Availability
- DFS Replication
- DFS Deployment
- Considerations
- Sharing Printers
- Print Server Review
- Printer Options
- Print Management Console
- Print Drivers
- · Group Policy for Printers
- Demo: Print Services
- Demo: Print Management
- Demo: Deploy Printer
- Summary

Network Security Overview

· Firewall Advanced Security

Connection Security Rules

Firewall Rule Considerations

Security Configuration Wizard

- Introduction
- Network Security
- Mitigation Steps
- Network Profiles

Creating Isolation

Protecting Against

Considerations

Viruses and Malware

User Account Control

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- Demo: Shadow Copies
- Summary

Virtualization Planning

- Introduction
- Overview • Different Virtualization Tech
- Hyper-V
- Features of Hyper-VHyper-V Architecture
- Installation Requirements
- Installation Considerations
- Demo: Hyper-V Role
- Summary

Configuring And Virtualization

- Introduction
- Hyper-V Configuration
- Drive Considerations
- When to use Hyper-V
- Snapshots
- Managing Hyper-V Hosts
- Using VMM
- Hyper-V Failover Cluster
- Managing Virtual Machines
- Backing up a Virtual Machine
- Demo: Create a VOS
- Summary

