50255 Managing Windows Environments with Group Policy

Overview

In this course you will learn how to reduce costs & increase efficiencies in your network. You will discover how to consolidate the administration of an enterprise IT infrastructure with Group Policy, & you will learn to control & manage computer systems.

Prerequisite Comments

Experience with the Microsoft Windows Server 2008/2012 environments and a fundamental understanding of Active Directory

Target Audience

This course is intended for Enterprise network staff responsible for help desk support, system administration, and network design.

Course Objectives

At the completion of this course, students will have knowledge about:

- Features and functions of Group Policy
- Use Group Policy management tools to manage security policies
- Design a Group Policy infrastructure
- Group Policy processing architecture
- Back up, restore, import, and copy Group Policy Objects through the Group Policy Management Console
- Use Windows PowerShell to manage Group Policy
- Implement security using Group Policy
- Configure the desktop environment with Group Policy
- Configure roaming profiles and Folder Redirection
- Assign and publish software packages
- Implement AppLocker and software restriction policies
- Create and deploy Administrative Templates
- Configure Group Policy preferences

Course Outline
Introduction to Configuration Management

Configuration Management Overview
Configuration Management Using Group Policy
Group Policy Features Introduced with Later Versions of Windows
Using Windows PowerShell in the Configuration Management Process
Lab: Introducing Configuration Management

Using Group Policy Management Tools

Local and Domain Policies
Using Group Policy Management Console
Understanding Group Policy Refresh
Lab: Using Group Policy Management Tools

Designing a Group Policy Infrastructure

Design Stages for a Group Policy Infrastructure
Planning your Group Policy Design
Designing Your Group Policy Solution
Deploying Your Group Policy Solution
Managing Your Group Policy Solution
Lab: Designing a Group Policy Infrastructure

Understanding the Architecture of Group Policy Processing

Group Policy Components in AD DS
Understanding the Group Policy Deployment Order
Modifying Group Policy Processing
Lab: Understanding the Group Policy Processing Architecture

Troubleshooting and Backing Up GPOs

Using Group Policy Troubleshooting Tools
Integration of RSoP Functionality
Using Logging Options
Backing Up, Restoring, Importing, and Copying GPOs
Building Migration Tables
Lab: Troubleshooting and Backing Up GPOs

Securing Windows Using Group Policy

Exploring the Windows Security Architecture
Securing User Accounts
Exploring Security Policies
Windows Firewall with Advanced Security
Implementing Domain Security
Security Policy Options for Window Client and Windows Server
Lab: Securing Windows Using Group Policy
Implementing Application Security Using Group Policy

Managing UAC Settings
Defending Against Malware
Using AppLocker to Restrict Software
Implementing Windows 8 App Security Settings
Lab: Implementing Application Security Using Group Policy

Configuring the Desktop Environment with Group Policy

Exploring Script Types and Controlling Script Execution
Defining the Desktop, Start Menu, and Taskbar Settings
Defining the Control Panel Settings
Defining the Windows Components Settings
Configuring the Printer Management and Pruning Settings
Defining the Network Settings
Discovering the new Group Policy Settings
Lab: Configuring the Desktop Environment with Group Policy

Implementing User State Virtualization

Configuring Folder Redirection
Managing Offline Files
Implementing User Experience Virtualization
OneDrive for Business
Lab: Implementing User State Virtualization

Assigning and Publishing Software Packages

Using MSI Packages to Distribute Software
Using Group Policy as a Software Deployment Method
Deploying Software
Setting Up Distribution Points
Using the Systems Center Configuration Manager to Distribute Software
Lab: Assigning and Publishing Software Packages

Configuration Management with Windows PowerShell

Introducing Windows PowerShell
Using Windows PowerShell
Writing PowerShell Scripts
Windows PowerShell Library for Group Policy
Windows PowerShell-Based Logon Scripts
Lab: Configuration Management with Windows PowerShell
Implementing PowerShell Desired State Configuration

Introducing Group Policy Preferences
Comparing Preferences and Policy Settings
Options for Applying Preferences
Configure Preference Settings
Lab: Using PowerShell Desired State Configuration

Configuring Group Policy Preferences

Introducing Group Policy Preferences
Comparing Preferences and Policy Settings
Options for Applying Preferences
Configuring Preferences Settings
Lab: Configuring Group Policy Preferences