

Managing Windows Environments with Group Policy

Duration: 5 Day(s)

Course Overview

In this course you will learn how to reduce costs and increase efficiencies in your network. You will discover how to consolidate the administration of an enterprise IT infrastructure with Group Policy, and you will learn to control and manage computer systems and domain users running Windows Server and Windows clients. Create Group Policies, implement administrative and security templates, and determine best practices when deploying software packages. Walk away with the experience and tools needed to optimize your enterprise systems and networks, implement administrative and security templates, and determine best practices when deploying software packages.

Review this course online at <https://www.alta3.com/courses/50255>

Objectives

- Design and implement effective Group Policy management solutions.
- Understand the architecture and processing of Group Policies.
- Utilize Windows PowerShell for advanced Group Policy administration.
- Implement and deploy security settings and software packages.

Who Should Attend

- Enterprise network administrators
- IT support specialists
- System administrators
- Network design professionals

Prerequisites

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

Course Outline

Module 1: Introduction to Configuration Management

1. Configuration Management Overview
2. Configuration Management Using Group Policy
3. Group Policy Features Introduced with Later Versions of Windows
4. Using Windows PowerShell in the Configuration Management Process

Module 2: Using Group Policy Management Tools

5. Local and Domain Policies
6. Using Group Policy Management Console
7. Understanding Group Policy Refresh

Module 3: Designing a Group Policy Infrastructure

8. Design Stages for a Group Policy Infrastructure
9. Planning your Group Policy Design
10. Designing Your Group Policy Solution
11. Deploying Your Group Policy Solution
12. Managing Your Group Policy Solution

Module 4: Understanding the Architecture of Group Policy Processing

13. Group Policy Components in AD DS
14. Understanding the Group Policy Deployment Order
15. Modifying Group Policy Processing

Module 5: Troubleshooting and Backing Up GPOs

16. Using Group Policy Troubleshooting Tools
17. Integration of RSoP Functionality
18. Using Logging Options
19. Backing Up, Restoring, Importing, and Copying GPOs
20. Building Migration Tables

Module 6: Securing Windows Using Group Policy

21. Exploring the Windows Security Architecture
22. Securing User Accounts
23. Exploring Security Policies
24. Windows Firewall with Advanced Security
25. Implementing Domain Security

Module 7: Implementing Application Security Using Group Policy

26. Managing UAC Settings
27. Defending Against Malware
28. Using AppLocker to Restrict Software
29. Implementing Windows 8 App Security Settings

Module 8: Configuring the Desktop Environment with Group Policy

30. Exploring Script Types and Controlling Script Execution
31. Defining the Desktop, Start Menu, and Taskbar Settings
32. Defining the Control Panel Settings
33. Defining the Windows Components Settings
34. Configuring the Printer Management and Pruning Settings

- 35. Defining the Network Settings
- 36. New Settings for Windows 8 Client and Windows Server 2012

Module 9: Implementing User State Virtualization

- 37. Configuring Folder Redirection
- 38. Managing Offline Files
- 39. Implementing User Experience Virtualization
- 40. OneDrive for Business

Module 10: Assigning and Publishing Software Packages

- 41. Using MSI Packages to Distribute Software
- 42. Using Group Policy as a Software Deployment Method
- 43. Deploying Software
- 44. Setting Up Distribution Points
- 45. Using the Systems Center Configuration Manager to Distribute Software

Module 11: Configuration Management with Windows PowerShell

- 46. Using Windows PowerShell
- 47. Writing PowerShell Scripts
- 48. Windows PowerShell Library for Group Policy
- 49. Windows PowerShell-Based Logon Scripts
- 50. Using PowerShell Desired State Configuration

Module 12: Creating and Deploying Administrative Templates

- 51. Introducing Administrative Templates
- 52. Legacy ADM Templates
- 53. Managing ADMX Templates
- 54. Converting and Creating Custom ADMX Templates
- 55. Using the ADMX Central Store

Module 13: Configuring Group Policy Preferences

- 56. Introducing Group Policy Preferences
- 57. Comparing Preferences and Policy Settings
- 58. Configuring Preferences Settings