What Will We Cover?

• Group Policy concepts
• Creating test and staging environments
• Group Policy tools
Helpful Experience

- Experience supporting Windows servers
- Experience supporting Microsoft networks
- Familiarity with Active Directory

Level 200

www.microsoft.com/technet/ADD-07
www.microsoft.com/technet/ADD-08
Agenda

- Preparing the Environment
- Creating a Staging Environment
- Managing Group Policy
Designing an OU Structure

- Contoso.com
  - BuiltIn
  - Computers
  - Domain Controllers
  - ForeignSecurityPrincipals
  - Users
Designing an OU Structure

Contoso.com

- Builtin
- Computers
- Domain Controllers
- ForeignSecurityPrincipals
- Users
- Lab Computers
- Sales Users
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demonstration

Organizing OUs
What Is Group Policy?
What Is Group Policy?

- Manage user and computer environments
What Is Group Policy?

• Manage user and computer environments
• Enforce IT policies
What Is Group Policy?

- Manage user and computer environments
- Enforce IT policies
- Simplify administrative tasks
What Is Group Policy?

- Manage user and computer environments
- Enforce IT policies
- Simplify administrative tasks
- Implement security settings
Group Policy Terms

- Group Policy Object
- Computer Configuration
- User Configuration
Group Policy Terms

Group Policy Object

Scope of Management

Computer Configuration

User Configuration

Domain

OU

Site
Group Policy Terms

Group Policy Object

Scope of Management

Computer Configuration

User Configuration
Group Policy Terms

Group Policy Object

Scope of Management

Computer Configuration

User Configuration
Common Desktop Scenarios

- Lightly managed
- Mobile
- Multiuser
- AppStation
- TaskStation
- Kiosk
Usage Scenarios – Lightly Managed

- For power users or developers
- Least restricted
- Free-seating
- Core set of applications

Usage Scenarios – Mobile

- Aimed at mobile users
- Data available at all times
- Partial free-seating
- Log off without disconnecting
Usage Scenarios – Multiuser

- Basic customization
- Free-seating
- Restricted write access
- Security-enhanced
- Assigned and published applications
Usage Scenarios – AppStation

- Minimal customization
- Few applications
- Free-seating
- Restricted write access
- Security-enhanced
Usage Scenarios – TaskStation

• For order entry or call centers
• Runs a single application
• No desktop or Start menu
Usage Scenarios – Kiosk

• Unattended public workstation
• Single application and user
• Security-enhanced
• No user changes or write access
• Always on
Agenda

• Preparing the Environment
• Creating a Staging Environment
• Managing Group Policy
Implementing a Staging Environment

1. Build staging environment

Production

Staging
Implementing a Staging Environment

2. Synchronize with production

![Diagram showing production and staging environments with XML files](image)

- CreateXMLFromEnvironment.wsf
- CreateEnvironmentFromXML.wsf
Implementing a Staging Environment

3 Test GPOs

Staging

Group Policy Modeling
Implementing a Staging Environment

3 Test GPOs

Group Policy Results

Staging

Group Policy Modeling
Implementing a Staging Environment

3 Test GPOs

Group Policy Results

Group Policy Results
Implementing a Staging Environment

4 Prepare for deployment

Staging

GPO Backups
Implementing a Staging Environment

4. Prepare for deployment

- GPO Backups
- Migration Tables
Implementing a Staging Environment

5. Deploy to production

Production

Staging

GPO Backups

Migration Tables
demonstration
Creating a Staging Environment
Agenda

• Preparing the Environment
• Creating a Staging Environment
• Managing Group Policy
Group Policy Management Console

- MMC snap-in
- Includes Group Policy Object Editor
- Reporting and modeling
- Supports cross-forest trusts
GPMC Service Pack 1

- Various bug fixes
- New languages
- Updated GPMC EULA
- Updated MSXML4

demonstration

Reviewing the GPMC
User and Computer Configuration
User and Computer Configuration

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  - Sales Users
  - Lab Computers
  - Users
User and Computer Configuration
User and Computer Configuration

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Lab Computers settings
User and Computer Configuration

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Sales Users settings
Lab Computers settings
Group Policy Order of Precedence
Group Policy Order of Precedence

Local Security Policy
Group Policy Order of Precedence

- Local Security Policy
- Site Policy
Group Policy Order of Precedence

Local Security Policy
Site Policy
Domain Policy

Microsoft TechNet
Group Policy Order of Precedence

- Local Security Policy
- Site Policy
- Domain Policy
- Parent OU Policy
Group Policy Order of Precedence

- Local Security Policy
- Site Policy
- Domain Policy
- Parent OU Policy
- Child OU Policy
When is Group Policy Applied?

Startup and shutdown
When is Group Policy Applied?

Startup and shutdown

Logon and logoff
When is Group Policy Applied?

- Startup and shutdown
- Logon and logoff
- Defined intervals
When is Group Policy Applied?

- Startup and shutdown
- Logon and logoff
- Defined intervals
- Forced with GPUpdate.exe
Group Policy Processing

Synchronous Initial Processing
Group Policy Processing

Synchronous Initial Processing
Group Policy Processing

Synchronous Initial Processing

Asynchronous Initial Processing
Group Policy Processing

Synchronous Initial Processing

Asynchronous Initial Processing
demonstration
Modifying Group Policy Objects
Group Policy Modeling and Results

• Group Policy Modeling
  Simulates GPOs on user or computer

• Group Policy Results
  Reports actual policy settings
demonstration

Group Policy Modeling and Results

• Using Group Policy Modeling
• Using Group Policy Results
Backing Up and Restoring GPOs
Backing Up and Restoring GPOs
Backing Up and Restoring GPOs
Backing Up and Restoring GPOs
demonstration

Backing up and Restoring GPOs
Session Summary

• Manage and control your environment more easily with Group Policy

• Use a staging environment to test Group Policy before production deployment

• Use the GPMC to manage Group Policy
For More Information

Visit TechNet at
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Visit the following URL for additional information
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## Training Resources

<table>
<thead>
<tr>
<th>Course ID</th>
<th>Title</th>
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</thead>
<tbody>
<tr>
<td>2274</td>
<td>Managing a Microsoft Windows Server 2003 Environment</td>
</tr>
</tbody>
</table>

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### 1. No-Charge Online Support

<table>
<thead>
<tr>
<th><strong>Knowledge Base</strong></th>
<th>Search a vast database of articles to pinpoint the information you need.</th>
</tr>
</thead>
<tbody>
<tr>
<td><strong>Newsgroups</strong></td>
<td>Access over 20,000 active newsgroups on scores of topics.</td>
</tr>
<tr>
<td><strong>Product Support Centers</strong></td>
<td>Get answers to frequently asked questions, plus how-to articles and step-by-step instructions organized by product.</td>
</tr>
<tr>
<td><strong>DLL Help Database</strong></td>
<td>Search here to identify the software used to install a specific DLL version.</td>
</tr>
<tr>
<td><strong>Events and Errors Message Center</strong></td>
<td>Resolve event and error messages fast with explanations, recommendations, and links to support and resources.</td>
</tr>
<tr>
<td><strong>Support Webcasts</strong></td>
<td>Tune in to live technical presentations by Microsoft experts and take part in real-time Q&amp;A.</td>
</tr>
<tr>
<td><strong>Chats</strong></td>
<td>Chat online with Microsoft specialists or search the transcript archives.</td>
</tr>
<tr>
<td><strong>User Group Program</strong></td>
<td>Access information and support for IT and other interest-specific user groups.</td>
</tr>
<tr>
<td><strong>TechNet Security Resource Center</strong></td>
<td>Get ahead of security risks with resources that keep you current, including security newsletters and the Microsoft notification service.</td>
</tr>
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