



Desktop Management GPOs

Introduction and/or Background

Tx Rig is in the final stages of server deployment and is ready to create some Group Policies to manage desktops in the domain.

Objectives

In this project/lab the student will:

- Configure Print Management Services
- Configure a network printer for deployment
- Create and implement Active Directory Computer and Users Group Policies
- Use group policies to setup common mappings to a department share drive
- Lock down the desktop and deploy a printer for all employees in the department

Equipment/Supplies Needed

- VMWare Workstation Pro
- Windows Server 2019 Virtual Machine
- Windows 10 Virtual Machine

Assessment Criteria

- Print Screen Print Manage, displays your printer in Deployed Printers (PrtScr#1)
- Proof the network printer is installed on the client workstation (PrtScr#2)
- Proof the lockdown of users desktop setting GPO View GPO Report, show the various policies you enabled (PrtScr#3)
- Print Screen proof the desktop is locked down, and drive mappings are working (PrtScr#4)
- Answers to the Reflection questions in a text file

Assignment

Part 1: Install and configure Print Management Services and Objects

Check Server Manager > Tools - if you don't have a "Print Management" tool in your list then you will need to Install Print Management Role. Review textbook pages 375-382.

Goal: First step is to create a network printer, second step is to create a policy to push the printer down to the client PC.

1. Server Manager \ Tools \ Print Management
2. Expand Print Servers \ Your Server \ right click Printers \ right click Printer and select Add Printer.
 - a. Follow printer Install Wizard to create a printer
 - b. Add a TCP/IP by IP address Create a new port
 - c. Change Device Type to – TCP/P Device, enter 172.17.3.201 and uncheck “Auto detect” since you don’t have a physical printer to talk to or “find”, it will take a minute or so
 - d. Additional Port Info. (Since the printer cannot be found you will need to provide additional information
Standard – Generic Network Card \ install a new driver
 - e. Printer Installation: scroll down to Microsoft, from Printer list scroll down and select Microsoft PCL6 Class Driver, next
 - f. Printer Name: Enter MKTG-MSFTPCL6 \ change the share name to **MKTG-Microsoft PCL6** , enter a description for room location to help you locate the physical printer; and complete the wizard, do not send a test page. (If this printer model is not available, pick another similar model.)
3. Right click your printer and View printer properties of your newly created printer. There are multiple settings you can configure as needed.

Network Printer Installation Wizard

Printer Address
You can type the printer's network name or IP address.

Type of Device: TCP/IP Device

Host name or IP address: 172.17.3.201

Port name: 172.17.3.201

☐ Auto detect the printer driver to use.

Printer Name: MKTG-HLJ9000

☒ Share this printer

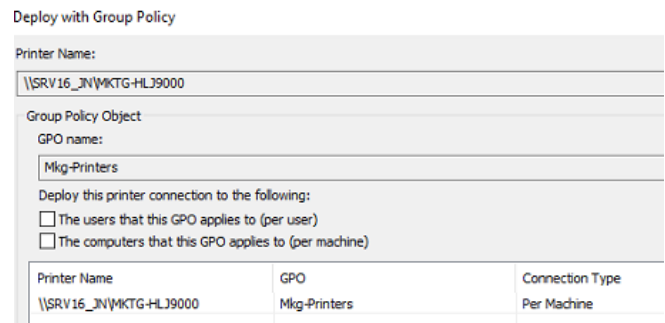
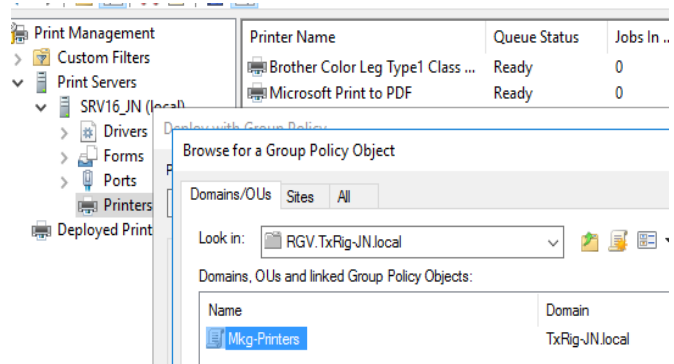
Share Name: MKTG-HLJ9000

Location: Bldg G Room S132

Part 2: Create a GPO to push down the MKTG printer

1. Open Server Manager, Tools, Group Policy Management
2. Navigate to RGV Organizational Unit, under your TxRig-your initials Domain
3. Right Click RGV, select “Create a GPO in this domain and link it here”, name it MKTG-Printers

4. Server Manager, Tools, Print Management, walk to your Printers (select Print Servers, your server, then printers)
5. Right click your printer and select Deploy with Group Policy.
6. GPO Name: select Browse and double click Open RGV OU and select the Mktg-Printers GPO you previously created
7. Deploy with Group Policy, check "The computers that this GPO applies to (per machine)", click "Add", then "OK".
8. Open Active Directory Users and Computers. All computer accounts are located in the "Computers" container. Select your windows computer and move it to the RGV OU.
9. In Print Management, select "Deployed Printers". You should see the printer listed in the list. **Take a screenshot (PrtScr#1).** Close the Print Management Tool.
10. Go to Server Manager, Tools, Group Policy Management
11. Navigate to the MKT-Printers GPO
12. Scope: Enforce and Link Enabled both need to be set to YES
13. Scope: Security Filtering: Click "Add". Change Object Type to "Computers"; type the name of your computer and click "Check Names". With your computer selected, click "OK".



Test Configuration Client to verify the deployment of your network printer

1. Optional: Create a snapshot of your virtual machine before you attempt any policy changes, this will give you an opportunity to restore if you need to make changes.
2. Login to your virtual client using user account Carl Long (If you don't recall his password, or you have logon restriction set, change as needed so that you can logon as the user)
3. To speed up GPO applying: open Command Prompt
Type the following **gpupdate /force**
You should see a message indicating the policy update completed successfully

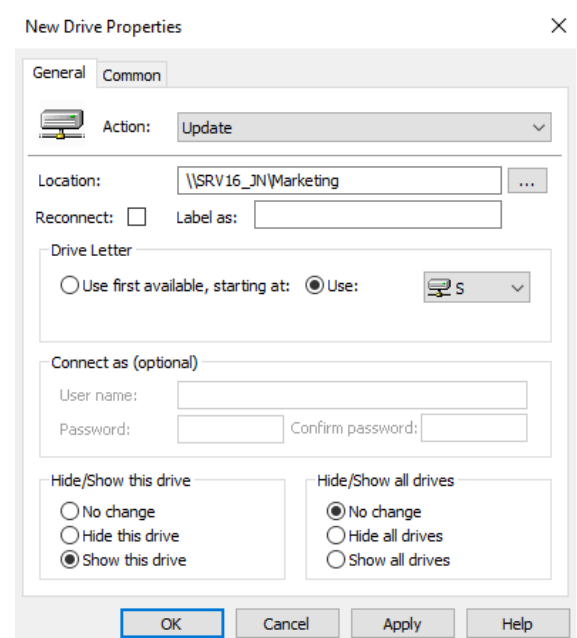
```
C:\Users\chavez>gpupdate /force
Updating policy...

Computer Policy update has completed successfully.
User Policy update has completed successfully.
```

4. Verify the network printer was deployed to the computer:
In the Search Window, type "Printers", then open the "Printers and Scanners" app. Scroll down. (It may help to reboot your client computer VM and log back in.) If you see the network printer then you have success. **Take a screenshot (PrtScr#2).**

Part 3: Configure GPO Settings to Manage Desktop for the MKTG

1. On your server VM, open File Explorer and create the folder c:\Marketing
2. Share the folder as "Marketing" using Advanced sharing and accept all defaults for permissions
3. Server Manager, Tools, Group Policy Management
4. Create a new GPO in the RGV OU named MKTG GPO, edit this PO
5. User Configuration:
 - a. Policies, Administrative Templates, Start Menu and Taskbar, scroll down to locate
 - i. Remove Run Menu from Start Menu – set to Enable
 - b. Policies, Administrative Templates, Control Panel
 - i. Prohibit Access to Control Panel and PC settings – Enable
 - c. **Task: Map common drive to dept. share folder created in Module 4 – Marketing GPO**
 - i. Preferences, Windows Settings, Drive Maps, New, Drive Map:
 - ii. Location enter the UNC (Universal naming convention) path to the Marketing Share Folder – to view the UNC Path, view the properties of the Marketing Folder you created in Module 4: UNC Path Syntax **\\server name\share path of share folder name**
 - iii. Assign a drive letter: Example: UNC Path is \\srv19_jn\marketing Drive letter set **to S: drive**

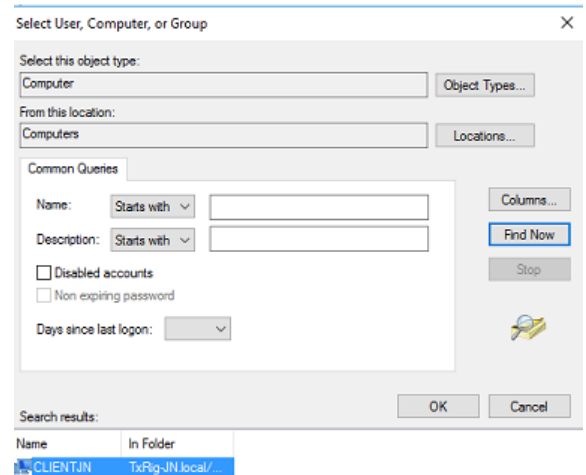


iv. Show this drive

d. Close GPO Editor

Step 4: Assign the Permission for the Computers to use this GPO

1. View Properties of GPO you created for "MTG Dept. GPO"
2. Scope Tab \ Security Filtering \ select Add, browse AD to find the group you created in Module 3 for the Marketing Dept. group object
3. Add your Marketing Group object
Scope Link: Verify location RGV OU is set to Enforced and Linked Enable are both set to **YES**



Step 5: Test Impact Configured Domain Policies

Note: If needed you can remove any logon time restrictions and reset password

1. Login to the domain using either Sharon Guttridge or Carl Long's user accounts.
2. Windows Panel, in run box enter services.msc
3. Scroll down to Group Policy client, verify this service is set Startup Type: is set to automatically
4. Open your command line
5. Type the following **gpupdate /force**

You should see a message indicating the policy update completed successfully

```
C:\Users\chavez>gpupdate /force
Updating policy...

Computer Policy update has completed successfully.
User Policy update has completed successfully.
```

6. Hit enter to execute the command
7. Restart your client
8. Logon as Carl Long.

9. Attempt to open Control Panel. Take a screenshot of the error message.
(PrtScr#3)
10. Open File Explorer. Verify drive mapping worked. Take a screenshot.
(PrtScr#4)

Reflection

1. How can you use group policies to ensure your users are following company policies?
2. Describe what if any troubleshooting you had to do to get the domain GPO working

Rubric

Checklist/Single Point Mastery

| <u>Concerns</u> Working Towards Proficiency | <u>Criteria</u> Standards for This Competency | <u>Accomplished</u> Evidence of Mastering Competency |
|--|--|---|
| | Criteria #1: Print Screen Print Manage, displays your printer in Deployed Printers (PrtScr#1) (20 points) | |
| | Criteria #2: Proof the network printer is installed on the client workstation (PrtScr#2) (20 points) | |
| | Criteria #3: Proof the lockdown of users desktop setting GPO View GPO Report, show the various policies you enabled (PrtScr#3) (20 points) | |
| | Criteria #4: Print Screen proof the desktop is locked down, and drive mappings are working (PrtScr#4) (20 points) | |
| | Criteria #5: Answers to the Reflection questions in a text file (20 points) | |