

CIS 231 – Printing Homework – #2

Do not complete questions 1 thru 6 in this assignment until you've completed and received a grade for the first printing assignment

Printer Table: The first three printers should already exist on your server from the first printing assignment. The others will be used in this assignment to create printer pools and printing priorities.

Refer to this table while doing the remaining questions in this assignment.

DO NOT ADD ANYTHING until you need to in order to complete a problem.

Printer Number	IP Address/ TCP/IP Port (Replace # with the Student # that was assigned to you)	Make / Model / Driver
1	192.168.#.12	Epson AL-C2600
2	192.168.#.13	HP Color Laserjet 4650 PCL 5
3	192.168.#.14	HP Laserjet 400 MFP M425 PCL 6 Class Driver
4	192.168.#.16	HP Color Laserjet 4650 PCL 5
5	192.168.#.17	HP Laserjet 400 MFP M425 PCL 6 Class Driver
6	192.168.#.18	HP Laserjet 400 MFP M425 PCL 6 Class Driver

1. Assume you want to delegate the task of adding and configuring printers on the network to one of the users in the Marketing container. Perform the steps necessary to give this user the appropriate rights. Do not give the user more rights than he/she needs – in other words, don't make him/her a member of the Administrators or Domain Admins group!)
 - a. How did you go about providing the user with the appropriate rights?
 - b. How did you test this?
 - c. Provide a screenshot of the user's 'member of' tab.
2. Using the shared printer you created in the first printing assignment for printer 3 in the above printer table, configure a printer pool. Your pool must consist of three print devices. Use the appropriate printers from the printer table as your second and third print devices in the pool. Do not add printers to complete this problem.
 - a. Provide a numbered or bulleted list of the steps that you performed to create this pool. Include screenshots for each of the following:
 - b. The Printers node under the Print Server in Print Management. Make sure all columns are visible.
 - c. The Ports node under the Print Server in Print Management. Make sure the port name and printer name columns are fully visible.
 - d. Explain why you might configure a printer pool
 - e. Explain why printers in a printer pool should be located in the same general location
 - f. Explain why printers in a printer pool must be the same type printer.
 - g. Explain what, if anything needs to be done at the client machines so that they can use the pool.

3. Assume your boss wants his/her print jobs to have high priority when printing to the Epson printer. You should currently have a printer share for this printer from the first printer assignment. Configure priority printing so that your boss's print jobs have higher priority than other print jobs when sending jobs to this printer (pick a user from the Marketing department to be your boss – you will need to create a group to properly configure the security for this problem.) Configure printer priorities for your boss; append "HighP" to the end of the new printer and share names to distinguish this as a high priority printer, make sure others don't have access to the printer and make sure they can't find it in the directory. Provide screenshots as specified (make sure you refresh your screens)
- The Printers node under the Print Server in Print Management
 - The Ports node under the Print Server in Print Management
 - The Advanced tab of the high priority printer
 - The Advanced tab of the original printer
 - The Security tab of the high priority printer. Be sure the picture includes verification that you set permissions on this printer as requested above.
 - The Share tab of the high priority printer
 - Active Directory users and Computers – the contents of the Marketing Container.
 - The members tab for each group created. (The number of screenshots used here should match the number of groups created.)
4. You should already have a GPO that's configured to deploy the Epson printer to all users in the Marketing container. Create a 2nd GPO and link it to the Marketing container. This GPO must be configured to deploy the high priority printers *only to* the users who have rights to the printer. Include HighPriority as part of the GPO name. Ensure this printer is deployed. After successfully configuring this policy, provide the following screenshots:
- Within Group Policy Management click on the GPO object which is configured to deploy the high priority printer to the Marketing container and then click on the settings tab in the right pane. Provide a screenshot of this window. I want both the left and right panes in the screenshot – no cropping. Be sure that I can see everything that's configured; expand whatever needs expanding.
 - While at the same screen as in 4a, click on the Scope tab. Provide a screenshot of this window. I want both the left and right panes in the screenshot – no cropping.
 - Within any one of the client machines, while logged in as a user who has rights to the high priority printer from the Marketing container, provide a screenshot of the Printers folder. Do the same for a user who doesn't have rights to the high priority printer.
 - Within Print Management, click on the *Deployed Printers* node in the left pane. Take a screenshot of this; both the left and right panes must be included in the image.
5. Create and configure a GPO that would be used to deploy 2 of the original three printers (any two) to all of your client computers. Use print management; do not use scripts. You will need to create a new container object for this problem; name it CompanyComputers. Confirm that the printers are being added through the computer policy. If you linked a deploy printer GPO at the domain level in homework #1, you definitely want to confirm that it's not using that one.
- Within Active Directory Users and Computers provide a screenshot which shows the contents of the CompanyComputers container.
 - Within Group Policy Management click on the GPO object which is linked to the CompanyComputers container and then click on the settings tab in the right pane. Provide a screenshot of this window. I want both the left and right panes in the screenshot – no cropping. Be sure that I can see everything that's configured; expand whatever needs expanding.
 - Within Windows 7, while logged in the user created as part of this problem, provide a screenshot of the Printers folder.

- d. Within Windows 10, while logged in as the same user used in 5c, provide a screenshot of the Printers folder.
 - e. Within Print Management, click on the *Deployed Printers* node in the left pane. Take a screenshot of this; both the left and right panes must be included in the image. All columns must be visible.
6. Create a custom filter in Print Management. The filter must be named “Shared with jobs” and must be configured to display all shared printers that have print jobs in their queue.
- a. After creating the filter, click on it within the left pane of Print Management and provide a screenshot which shows the items that are displayed for this filter.
 - b. Provide a screenshot of the *Filter Criteria* tab of the “Shared with Jobs” custom filter.
 - c. Provide a screenshot of the Printers node under the Print Server in Print Management.
7. Assume you have some print jobs ‘stuck’ in the print queue. While viewing the job list in the queue you attempt to delete them. It says ‘deleting’ but they aren’t deleted. Explain *exactly* what you could do to resolve this problem.
8. Assume the partition on which you have the print spool folder is getting full and you want to move the print spooler to a different hard drive. Explain all the steps that would need to be completed if you wanted to move the print spool folder to a different drive. Be very specific in your explanation.