

-CIS232 – Homework – Printing

1. Display the contents of your `dhcpd.conf` file.
2. Use Yast to create a `tcp/ip`, shared printer. Use any HP printer. Use an available IP address on your private network. Name the queue *yourInitials* followed by HP followed by the model number (i.e *JCA-HP4050*). Configure the shared printers such that only computers on your private network are allowed access to the printers and publish the printer to the computers on your private network. In addition, ensure that your server does NOT accept announcements from CUPS servers. Provide the following Yast screenshots:
 - a. The Printer Configurations page
 - b. The detailed settings of the HP printer (edit screen)
 - c. The Print Via Network Screen
 - d. The Share Printers screen.
3. Create a `tcp/ip` printer using System / Print Settings (kde). Use any Epson printer. Use an available IP address on your private network. Name the queue *YourInitials-Epson* followed by the model number (ie. *JCA-Epson2020*). Provide the following screenshots from the `printing-localhost` interface:
 - a. The screen which shows the printers within this interface
 - b. The properties screen of the Epson printer.
4. Use the CUPS web interface to create a `tcp/ip`, shared printer. Use any Canon printer. Use an available IP address on your private network. Name the queue *YourInitials-Canon* followed by the model number (i.e., *JCA-Canon2111*) Provide the following screenshots from the web interface:
 - a. The *printers* tab within the web interface
 - b. The detailed settings of the Canon printer.
5. At the client, provide a screenshot of
 - a. The Printer Configuration Page in Yast. Make sure that the location column is visible.
 - b. The Print Via Network Screen
 - c. The Share Printers screen.
6. While still at the client, execute the command that will list detailed information about all printers available on this computer.
7. At the client, while logged in as a user, perform each of the following tasks. Include the command used *and* the command's output.
 - a. Set the Epson printer/queue to be the default.
 - b. Execute a command that will display the default printer/queue
 - c. Send a print job to the default printer/queue.
 - d. Display the active print jobs in the default queue.
 - e. What user did you use?

8. At the client, log in as a different user than used in #6 and perform each of the following tasks. Include the command used *and* the command's output.
 - a. Without changing the default printer/queue, send 2 or 3 print jobs to the HP printer/queue.
 - b. Display the active print jobs in the HP queue.
 - c. Without changing the default printer/queue, send 2 or 3 print jobs to the Canon printer/queue.
 - d. Display the active print jobs in the Canon queue.
9. At the server, use the web browser interface to display a list of all the existing print jobs. Provide a screenshot of this list.
10. While still at the server, perform the following tasks from the command prompt. Provide the command used for each and its output.
 - a. Cancel any *one* of the existing print jobs.
 - b. Pause the Canon printer
 - c. Configure the Epson printer to reject jobs.
 - d. Execute the command that will display a list of all printers and their current status (i.e, idle, paused, etc.)
 - e. Enable the Canon Printer
 - f. Allow the Epson printer to accept jobs.
 - g. Execute the same command you used in 9d.
11. Send a print job to any printer. Configure it with at least two options. Provide the command used and explain the purpose of each of the options you selected. Use options different than those I used in class.
12. Execute the command that checks the status of cups.
13. Create a 2nd HP printer – use the same printer driver as your existing HP printer – and create a printer class. The class name must be HP-Class. Include both HP printers in the class. The individual printers within the class should only accept jobs received from the class. After configuring this execute the following command. Include the command and its output as your answer to this question.
 - a. `lpstat -s -a`
14. Execute the command to send a print job to the print class and display a list of jobs in the class. Include both commands and outputs as your answer to this question.