

## **1. Install CUPS Print Server**

1.1 *sudo apt-get install cups -y*

## **2. Start CUPS Print Service**

2.1 *sudo systemctl start cups*

## **3. Enable CUPS Print Service**

3.1 *sudo systemctl enable cups*

## **4. Configure CUPS Print Server**

4.1 *sudo nano /etc/cups/cupsd.conf*

4.2 Make these changes in the cupsd.conf file and save the file

4.2.1 *# Show shared printers on the local network.*

- *Browsing On*

- *BrowseLocalProtocols dnssd*

4.2.2 *# Only listen for connections from the local machine.*

- *Port 631*

- *Listen /run/cups/cups.sock*

4.2.3 *# Restrict access to the server...*

- *<Location />*

- *Order allow,deny*

- *Allow @Local*

- *</Location>*

4.2.4 *# Restrict access to the admin pages...*

- *<Location /admin>*

- *AuthType Default*

- *Require valid-user*

- *Order allow,deny*

- *Allow @Local*

- *</Location>*

## **5. Restart CUPS Print Service**

5.1 *sudo systemctl restart cups*

## **6. Add the CUPS localhost printer to the system**

6.1 Type “printer” in the Activities search bar, and then select the “Printer Settings”

6.2 Click on the “Add” button in the “Printer Settings”

## **7. Configure a CUPS server (often the local machine) using the CUPS API (Application Programming Interface)**

7.1 *system-config-printer*

## **8. Lists the available devices and drivers known to the CUPS server(The -v option is used to list the available devices.)**

8.1 *sudo lpinfo -v*

## **9. Configure printer and class queues provided by CUPS**

(-p : Specifies the name of the printer to add.

- printer name : Here the printer name is EPSON-M100-Series.
- -E : Enables the destination and accepts jobs.
- -v : Sets the device-uri attribute of the print queue.
- -m : Sets the PPD file for the printer from the model directory or by using one of the driver interfaces.)

9.1 *sudo lpadmin -p CUPS-BRF-Printer -E -v cups-brf:/*

## **10. The cupsaccept command instructs the printing system to accept print jobs to the specified destinations**

10.1 *sudo cupsaccept CUPS-BRF-Printer*

10.2 *sudo cupsenable CUPS-BRF-Printer*

## **11. lpstat displays status information about the current classes, jobs, and printers.**

(-p: Shows the printers and whether or not they are enabled for printing. If no printers are specified then all printers are listed.

- -d: Shows the current default destination.
- -r: Shows whether the CUPS server is running.
- -l: Shows a long listing of printers, classes, or jobs.
- -o: Shows the jobs queue on the specified destinations. If no destinations are specified all jobs are shown.)

11.1 *lpstat -p -d*

## **12. lpoptions displays or sets printer options and defaults**

12.1 *sudo lpoptions -d CUPS-BRF-Printer*

## **13. lp command submits files for printing or alters a pending job/lpr submits files for printing**

13.1 *lp usb2.c*

13.2 *lpr usb2.c*