UBUNTU & OPEN SUSE CUPS DRIVERS INSTALLATION

SP40 plus

UBUNTU 32/64 Bits Cups Driver Installation

Printer Connection to the Host

This printer can be connected to the host by means of the following available interface ports:
1. Parallel standard Centronics or bi-directional IEEE 1284 type interface
2. Serial RS-232/C interface
3. USB 2.0 full speed interface
4. Other optionally available ports (10/100T Wired LAN, USB 2.0 high speed, dual serial RS232/C)
Proceed as follows:
Make sure that both the host and the printer are turned off.
Identify the connector for the interface you want to plug and firmly insert the cable into it.
Fix the cable by means of the corresponding hooks or screws. on either side of the connector.

Parallel Interface Connection

Serial Interface Connection

USB Interface Connection

Printer Setup

To use Compuprint SP40Plus with O.S. Linux (Ubuntu/Open SUSE/ Cups, you must change the default configuration of this printer (see instruction)

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Entering the Printer Setup Mode
To enter the Printer Setup Mode press and hold the READY key pressed for at least 1 second while powering the printer on.

The printer enters the Setup Mode.
The leds ST1, ST2 and READY are unlit, the DATA led is flashing.

You can now:
Print one of the Printer Setup Forms (Configuration Menu or Program1 – Program2 – Program 3 - Program4 Menu)
Insert a filled-in Printer Setup Form to set the corresponding Setup values.

Printing the Printer Setup Forms

If you already have the preprinted forms for the printer setup, go to "Filling in the Printer Setup Forms" later in this manual.

1. With the printer in Setup Mode, insert a blank sheet in A4 or Letter format.
2. The printer loads the sheet and stops.
3. If you press the ST1 key, the three leds change and you can select the Setup Page you want to print as follows:

O = unlit   ● = lit   ◐ = flashing

ST1 ○	READY ○	⏀ / DATA	○ ST2	SETUP STATUS
○	○	◐	○	Configuration Page
●	○	◐	○	Program 1 – Setup Page
○	○	◐	●	Program 2 – Setup Page
●	○	◐	●	Program 3 – Setup Page
○	●	◐	○	Program 4 – Setup Page
●	●	◐	○	Offset Tuning Set Up Page

Only the Program 1 Setup Page printout is reported because the other are exactly the same except for the marker.

The printer setup forms contain all printer parameters and the values that can be set. The current value is indicated by an asterisk (*).

Each Setup form is identified by a marker in the upper left corner of the page as follows:

■	Configuration Setup	( ) SP40plus
■■	Program 1	( ) SP40plus
■■ (2x2)	Program 2	( ) SP40plus
■■■■ (2x2)	Program 3	( ) SP40plus
■■■■■	Program 4	( ) SP40plus
■■■■	Offset Tuning Setup	( ) SP40plus

In this line an empty marker ( ) is printed within the printer model and the Code Version to be used for the white calibration check.

Remark: do not fill this empty marker

For the printer with operator panel with LCD, the SETUP operation are directly displayed on the LCD jointly with the above described leds combination.
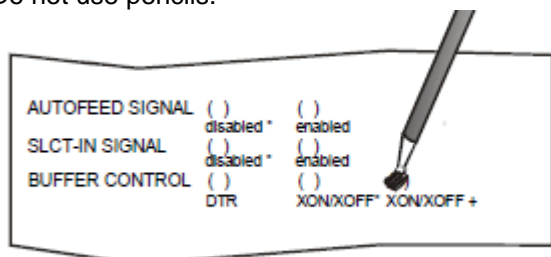
Now you must print this forms:

1) Configuration Setup
2) Program 1

Filling in the Printer Setup Forms

To change the values of the parameters, fill in the marker ( ) beside the value you want to set with a black or blue ball-point pen or a fiber-pen.
Do not use pencils.

If more than one value is set for a parameter, the printer ignores these parameters and maintains the currently set value.
Do not fill in the marker beside the title of the preprinted form, otherwise the printer will not be able to read that page.
For a detailed description of the parameters and values contained in the Configuration and Program1, Program2, Program3 and Program4 Menus, see "Setup Parameters" later in this manual.
For a detailed description of the Offset Tuning procedure, see "Offset Adjustment" later in this manual.
Now Fill Progr. 1 Marker on Configuration Setup form :

| CONFIGURATION SETUP | ( ) SP40 PLUS | : | Code Version xa.06 |

Parameter						
RESTORE TO MFG	( )no*	( )all	( )config	( )prog.1	( )prog.2	( )prog.3	( )prog.4
PROGRAM	●progr.1	( )progr.2	( )progr.3	( )progr.4	( )on interface	
ERROR BUZZER	( )disabled	( )enabled*				
JOB BUZZER	( )no beep*	( )1 beep	( )continuous			
INTERFACE TYPE	( )parallel	( )serial	( )serial_2	( )usb	( )automatic*	
IBM FINANCIAL	( )no*	( )honorCTS	( )ignoreCTS			
INPUT BUFFER	( )1 Kb	( )8 Kb*	( )16 Kb	( )32 Kb	( )64 Kb	
IGNORE PE	( )disabled	( )enabled*				
AUTOFEED SIGNAL	( )disabled*	( )enabled				
SLCT-IN SIGNAL	( )disabled*	( )enabled				
BUFFER CONTROL	( )DTR+SRTS*	( )SRTS	( )XON/XOFF	( )ETX/ACK	( )XON/XOFF+DTR+SRTS	
ROBUST XON	( )disabled	( )enabled*				
WORD LENGTH	( )7 bit	( )8 bit*				
BAUD RATE	( )1200 bps	( )2400 bps	( )4800 bps	( )9600 bps*	( )19200 bps	( )38400 bps
PARITY BIT	( )even	( )odd	( )space	( )mark	( )none*	
STOP BIT	( )1*	( )2				
USB MODE	( )2.0*	( )1.1				
COPIES	( )no	( )yes*				
LOW NOISE	( )no*	( )yes				
SAFE BOTTOM EDGE	( )no	( )yes*				
GET EDGE QUOTE	( )0/4"	( )1/4"*	( )2/4"	( )3/4"	( )4/4"	( )5/4" ( )6/4" (
PASSBOOK TYPE	( )setup	( )sw control*				
	( )fixed thick*( )vertical	( )horizontal				

Insert this module into the printer and wait the end of setup procedure.
Fill EPSON 570 Marker on PROGRAM 1 form :

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■  ■        PROGRAM 1              ( ) SP40 PLUS     :    Code Version xa.06


PROTOCOL          ●EPSON 570  ( )IBM X24E   ( )X24E AGM   ( )IBM 2390   ( )OLI. PR40+  ( )OLI. PR2   ( )OLI. PR2845 ( )IBM 4722
                  ( )IBM 9068  ( )HPR 4915

FONT              ( )Draft*    ( )Courier    ( )OCR-B      ( )Gothic     ( )Prestige    ( )Present    ( )OCR-A       ( )Script
                  ( )Boldface

QUALITY MODE      ( )lq*       ( )nlq              DRAFT MODE           ( )draft*    ( )hsd         ( )vhsd
DOWNLINE LOADING  ( )disabled  ( )enabled*
HORIZONTAL PITCH  ( )10 cpi*   ( )12 cpi    ( )15 cpi    ( )16.6 cpi   ( )17.1 cpi  ( )20 cpi
VERTICAL PITCH    ( )5 lpi     ( )6 lpi*    ( )8 lpi
LOCK              ( )no lock*  ( )font      ( )hor.pitch ( )font + hor.pitch
FORM LENGTH       ( )#lines    ( )A4*       ( )letter    ( )A5         ( )legal
              100 x ( )0 ( )1 ( )2
               10 x ( )0 ( )1 ( )2 ( )3 ( )4 ( )5 ( )6 ( )7 ( )8 ( )9   Minimum = 1
                1 x ( )0 ( )1 ( )2 ( )3 ( )4 ( )5 ( )6 ( )7 ( )8 ( )9   Maximum = 255   Current = 70
LEFT MARGIN    10 x ( )0 ( )1 ( )2 ( )3 ( )4 ( )5 ( )6 ( )7 ( )8 ( )9   Minimum = 0
                1 x ( )0 ( )1 ( )2 ( )3 ( )4 ( )5 ( )6 ( )7 ( )8 ( )9   Maximum = 90    Current = 0
RIGHT MARGIN  100 x ( )0 ( )1
               10 x ( )0 ( )1 ( )2 ( )3 ( )4 ( )5 ( )6 ( )7 ( )8 ( )9   Minimum = 0
                1 x ( )0 ( )1 ( )2 ( )3 ( )4 ( )5 ( )6 ( )7 ( )8 ( )9   Maximum = 190   Current = 93
TOP MARGIN     10 x ( )0 ( )1 ( )2 ( )3 ( )4 ( )5 ( )6 ( )7 ( )8 ( )9   Minimum = 0
                1 x ( )0 ( )1 ( )2 ( )3 ( )4 ( )5 ( )6 ( )7 ( )8 ( )9   Maximum = 90    Current = 0
BOTTOM MARGIN  10 x ( )0 ( )1 ( )2 ( )3 ( )4 ( )5 ( )6 ( )7 ( )8 ( )9   Minimum = 0
                1 x ( )0 ( )1 ( )2 ( )3 ( )4 ( )5 ( )6 ( )7 ( )8 ( )9   Maximum = 90    Current = 0

IBM C-SET         ( )IBM set 1* ( )IBM set 2        IBM COMPRESS        ( )17.1 cpi* ( )20 cpi
EPSON C-SET       ( )italic    ( )graphic*
NATION C-SET      ( )USA*      ( )FRANCE     ( )GERMANY    ( )ENGLAND    ( )DENMARK1   ( )SWEDEN     ( )ITALY       ( )SPAIN1
                  ( )JAPAN     ( )NORWAY     ( )DENMARK2   ( )SPAIN2     ( )LATIN A1
CODE PAGE         ( )CP437*    ( )CP437G     ( )96GREEK    ( )CP850      ( )CP851      ( )CP852      ( )CP853       ( )CP855
                  ( )CP857     ( )CP858      ( )CP860      ( )CP862      ( )CP863      ( )CP864      ( )CP865       ( )CP866
                  ( )CP867     ( )CP876      ( )CP877      ( )CP1098     ( )CP1250     ( )CP1251     ( )CP1252      ( )CP1257
                  ( )GOST      ( )TASS       ( )MAZOWIA    ( )CP437SL    ( )UKRAIN     ( )KOI8-U     ( )8859/1      ( )8859/2
                  ( )8859/3    ( )8859/4     ( )8859/5     ( )8859/6     ( )8859/7     ( )8859/8     ( )8859/9      ( )8859/15
                  ( )ROMAN-8   ( )ID 12      ( )CP874      ( )ID 14      ( )ID 17      ( )SANYO      ( )KU          ( )PHILIP
OLIVETTI C-SET    ( )CODE PAGE ( )INTERN.*   ( )GERMANY    ( )PORTUGAL   ( )SPAIN 1    ( )DEN/NORW   ( )FRANCE      ( )ITALY
                  ( )SWE/FIN   ( )SWISS      ( )G. BRITAIN ( )USA ASCII  ( )GREECE     ( )ISRAEL     ( )SPAIN 2     ( )JUGOSLAVIA
                  ( )TCV 370   ( )CANADA     ( )SDC        ( )TURKEY     ( )ARABIC     ( )CIBC       ( )PC-DEN/NORW ( )PC-DEN OPE
                  ( )PC-210    ( )PC-220     ( )OLI-UNIX
OLIVETTI COMPRES  ( )17.1 cpi* ( )16.6 cpi         VERT. RESOLUTION ( )1/216 inch ( )1/240 inch*
CUT SHEET EJECT   ( )on front* ( )on rear          PRINT DIRECTION  ( )unidir.   ( )bidir.    ( )sw control*
LINE MODE         ( )LF=LF,CR=CR*( )CR=LF+CR ( )LF=LF+CR  ( )LF&CR=LF+CR
WRAP MODE         ( )truncate  ( )autowrap*        REFERENCE EDGE   ( )left*     ( )right
SLASHED ZERO      ( )no*       ( )yes             EJECT ON FF       ( )no        ( )yes*
RESET WITH EJECT  ( )no        ( )yes*
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Insert this module into the printer and wait the end of setup procedure.
Push Ready button.

Note: Debian GNU/Linux, ubuntu installation procedures

It is necessary to install from the source code.

Necessary package:

• "gcc"
• "libcupsys2-dev"
• "libcupsimage2-dev"

After making sure that your PC is connected to the internet, perform the following operation to install the three packages above.

$ su - (Use the "su" command to enable root account privileges.)

Open Terminal Windows (CRTL + ALT + T)

 # apt-get update
 # apt-get install gcc
 # apt-get install libcupsys2-dev
 # apt-get install libcupsimage2-dev

It is not possible to obtain administrator rights using su command on ubuntu, so instead enter the sudo command at the top of the command.
(For example: $ sudo apt-get install gcc)

Copy the Compucupsdrv_linux_vx.x.tgz file to your PC and perform the following operation.

 # tar -xzvf Compucupsdrv_linux_vx.x.tgz
 # cd Compucupsdrv_linux_vx.x
 # make setup
 # make install

Install SP40PLUS on Centronix Interface:

Click on System Settings Icon:
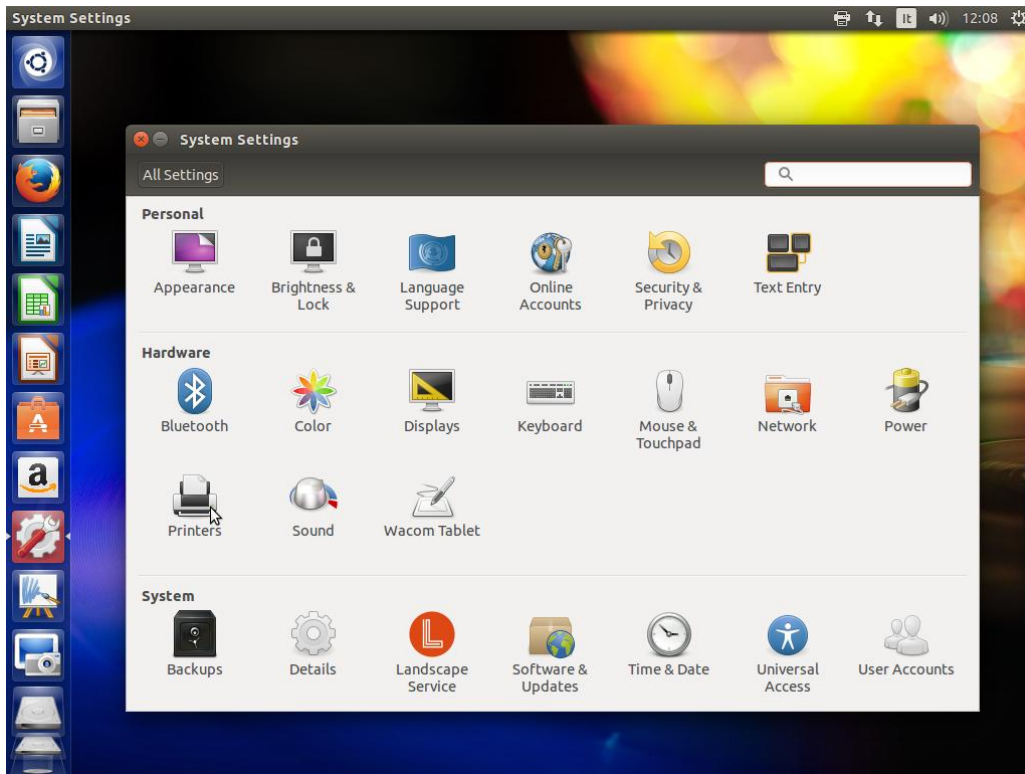
select Printers:
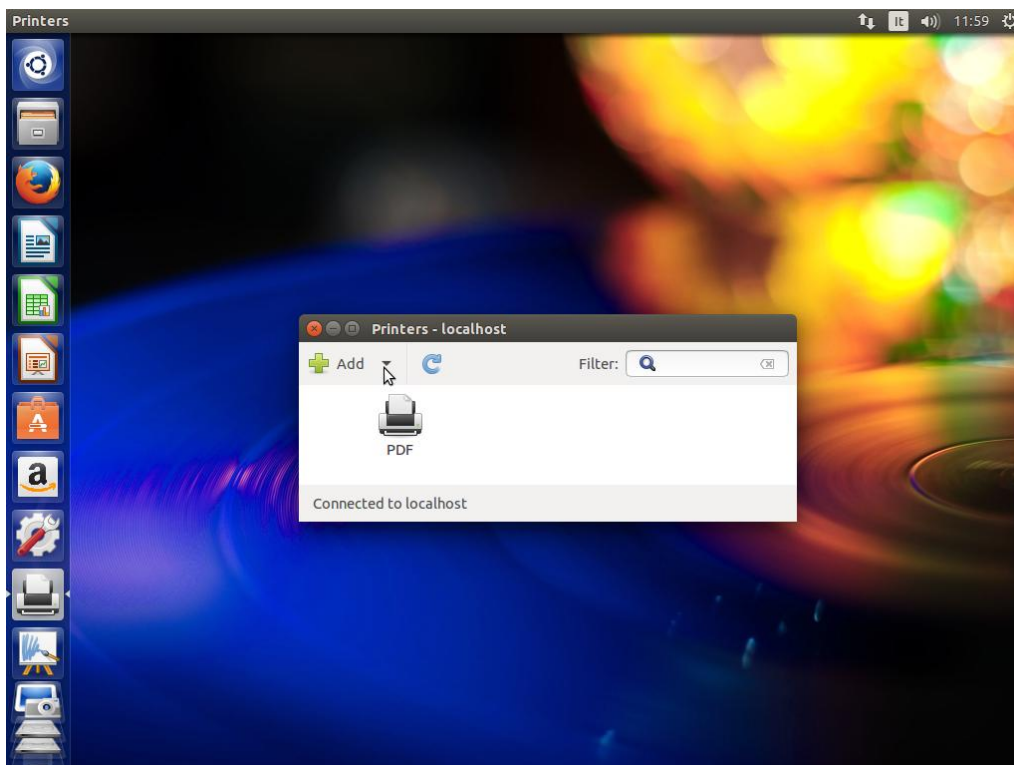
Click on ADD:
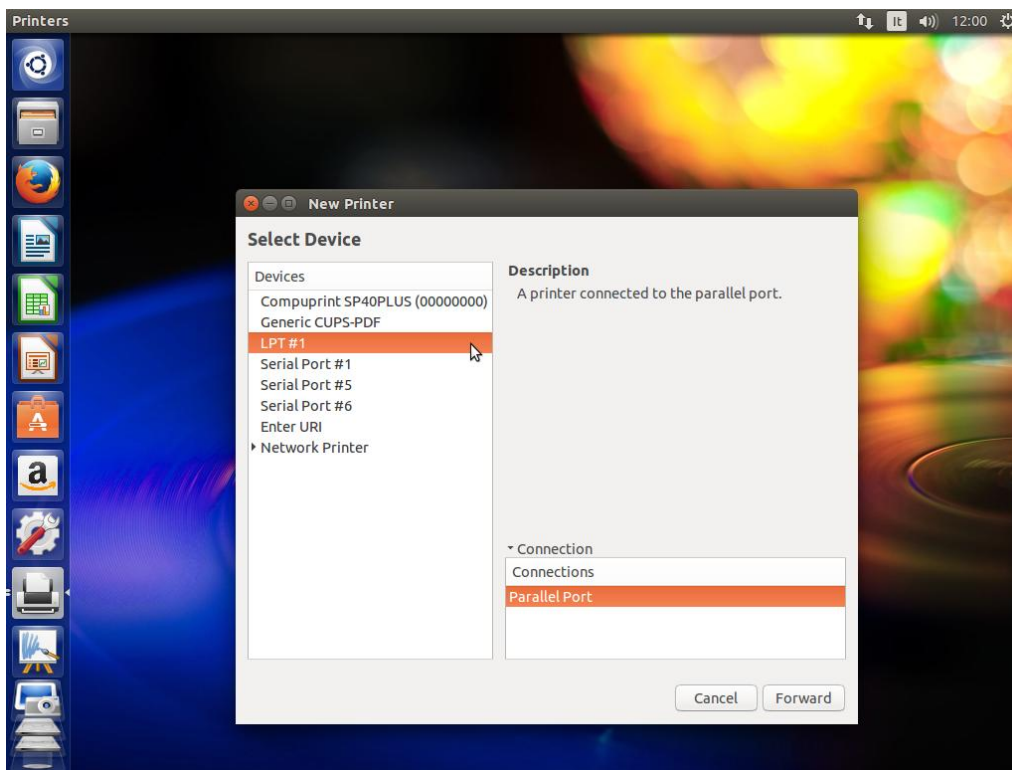
Select LPT#x port and click on Forward Button.

A)   Now choose: Select printer from database:
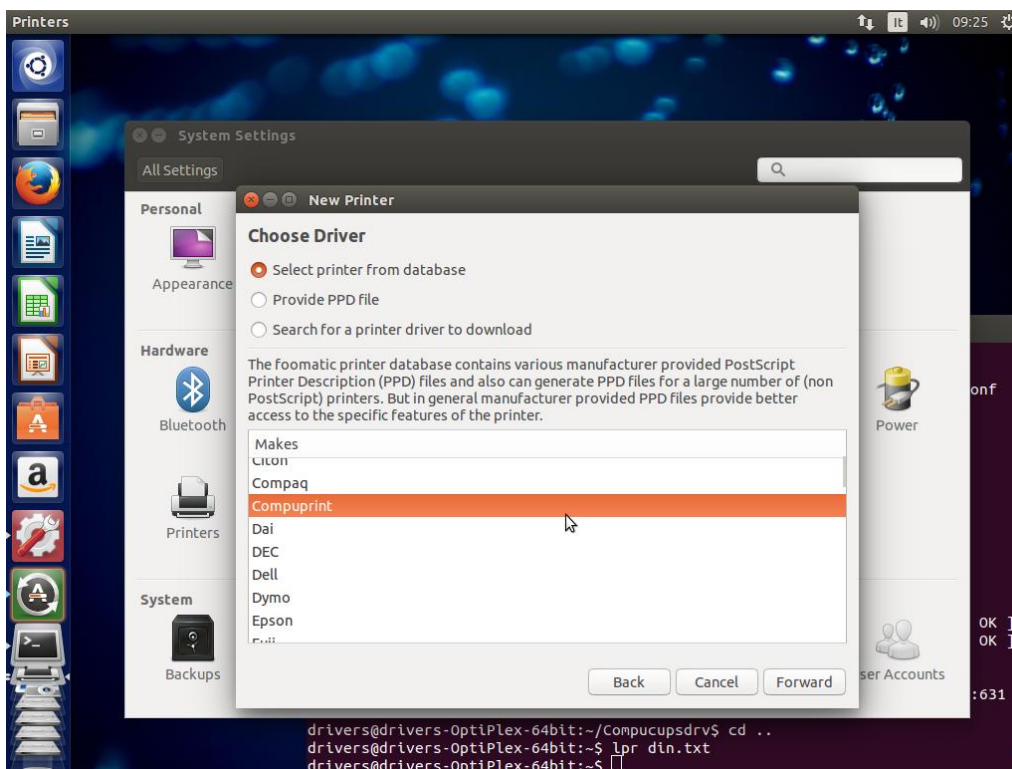
Select Compuprint:
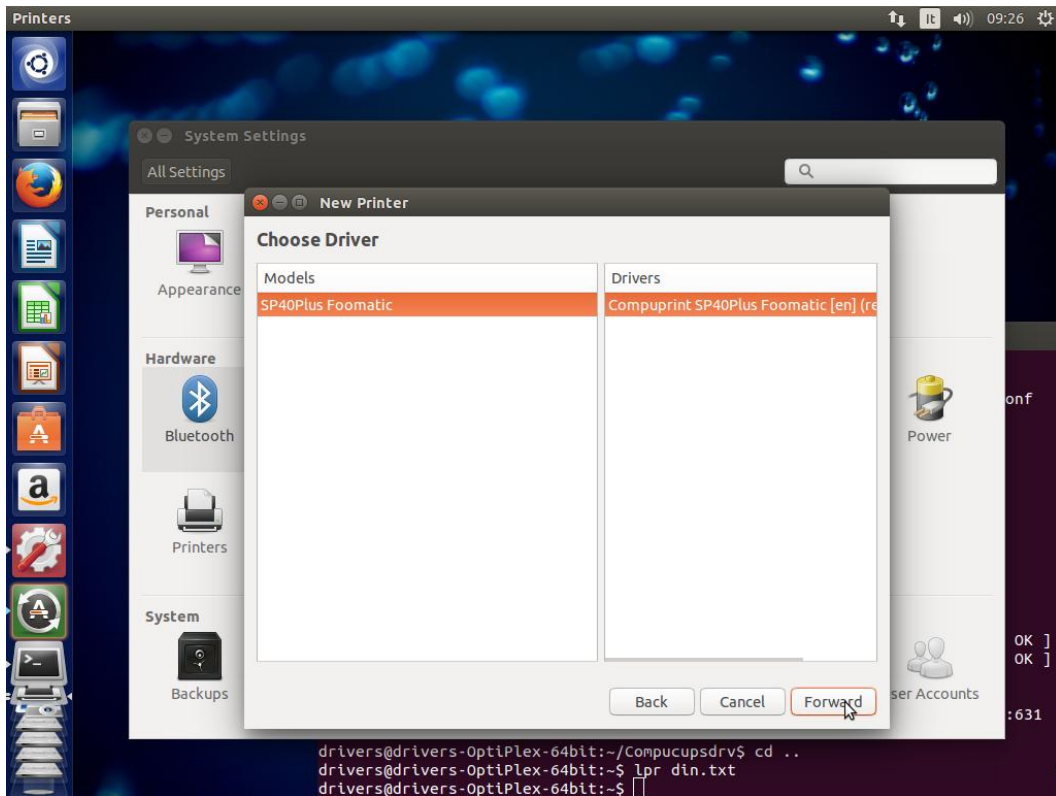
B) Select SP40Plus Foomatic model and click on Forward Button
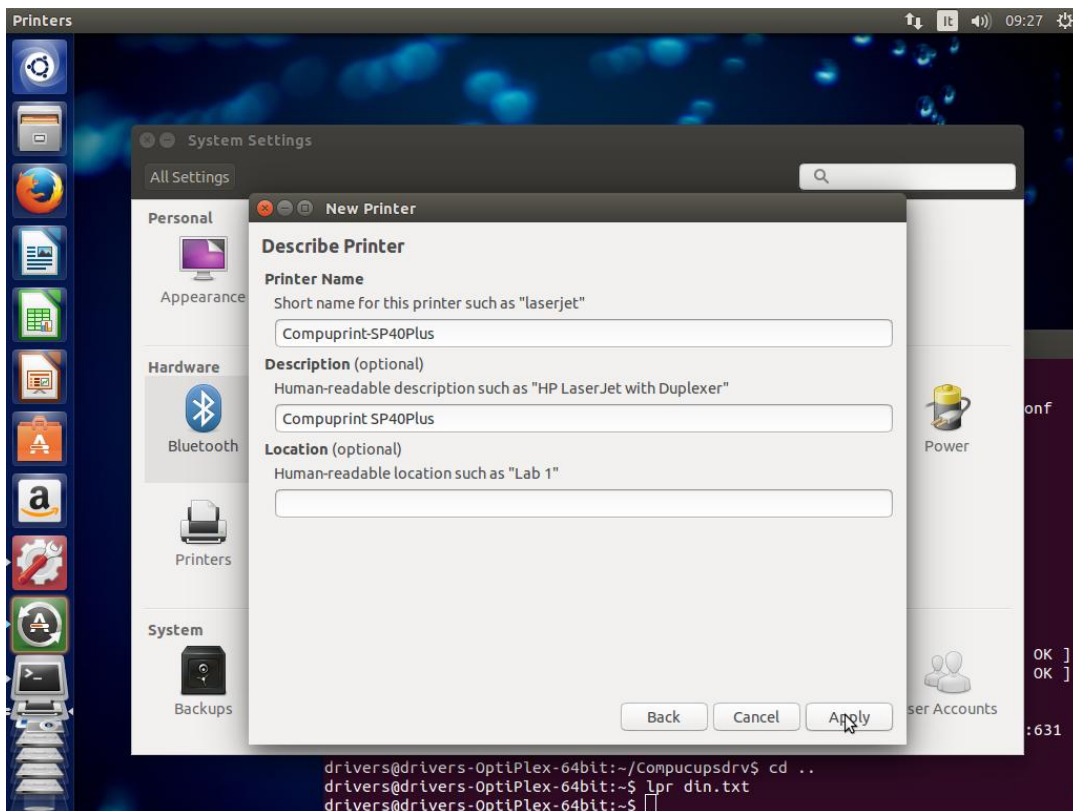
Select APPLY
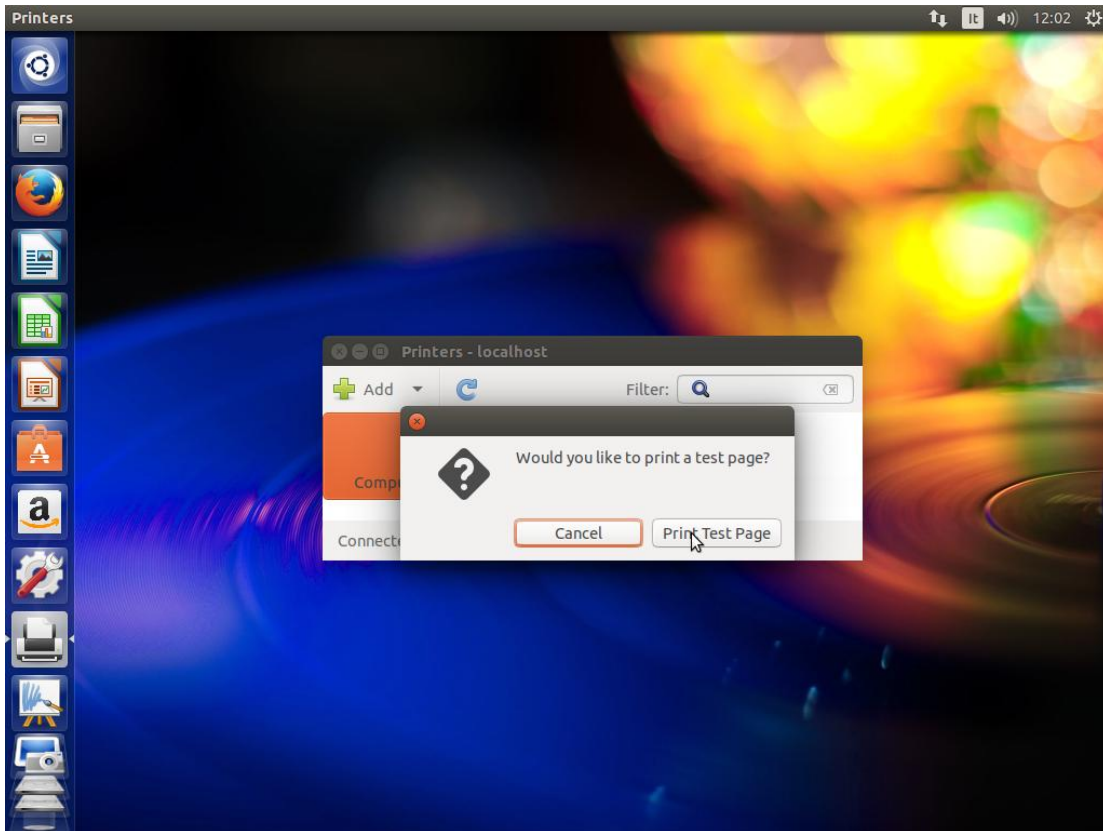
Insert an A4 sheet into the Printer and press: Print Test Page Button.
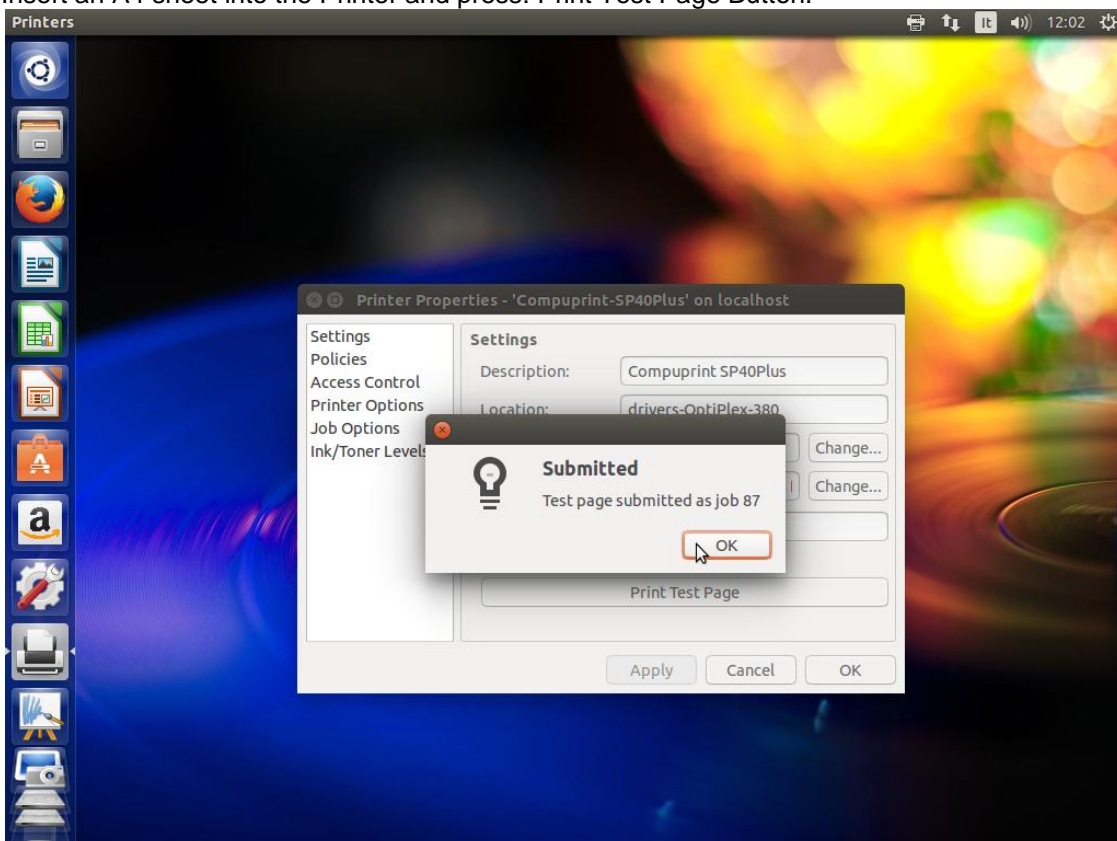
Press OK
Check Printer output like this:
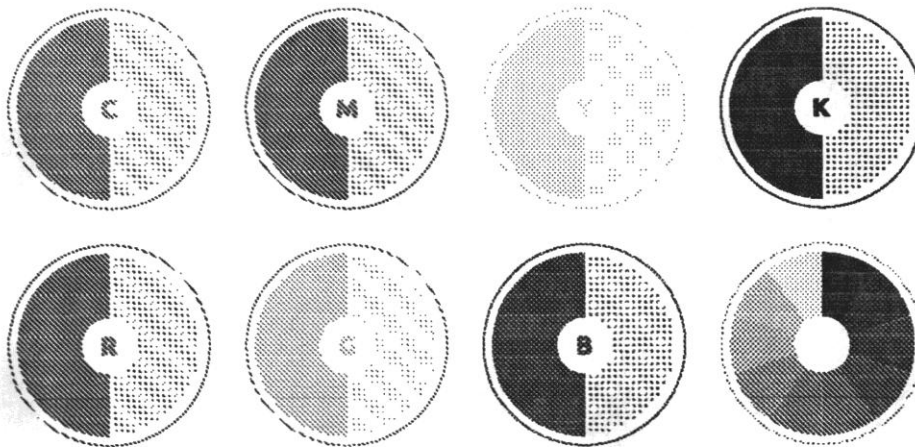
Printer test page   ubuntu

Media Limits: 0.25 x 0.50 to 8.01 x 11.19 inches
Job ID: Compuprint-SP40PLUS-147
Driver: COMPUPRINT.PPD
Driver Version: 1.1
Description: Compuprint SP40PLUS
Printer Location: drivers-OptiPlex-380
Make and Model: Compuprint SP40Plus Foomatic (recommended)
Printer: Compuprint-SP40PLUS
Created at: Thu May 7 12:31:47 2015
Printed at: Thu May 7 12:31:47 2015
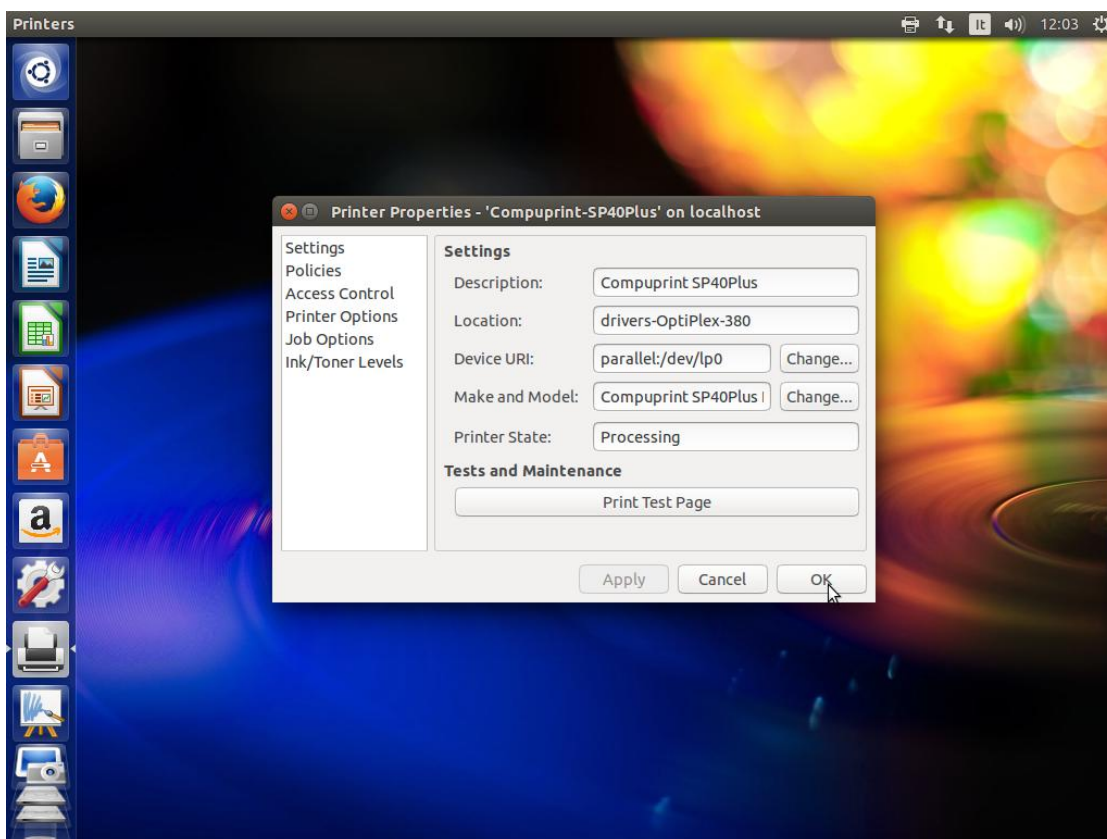
Click on OK Button:
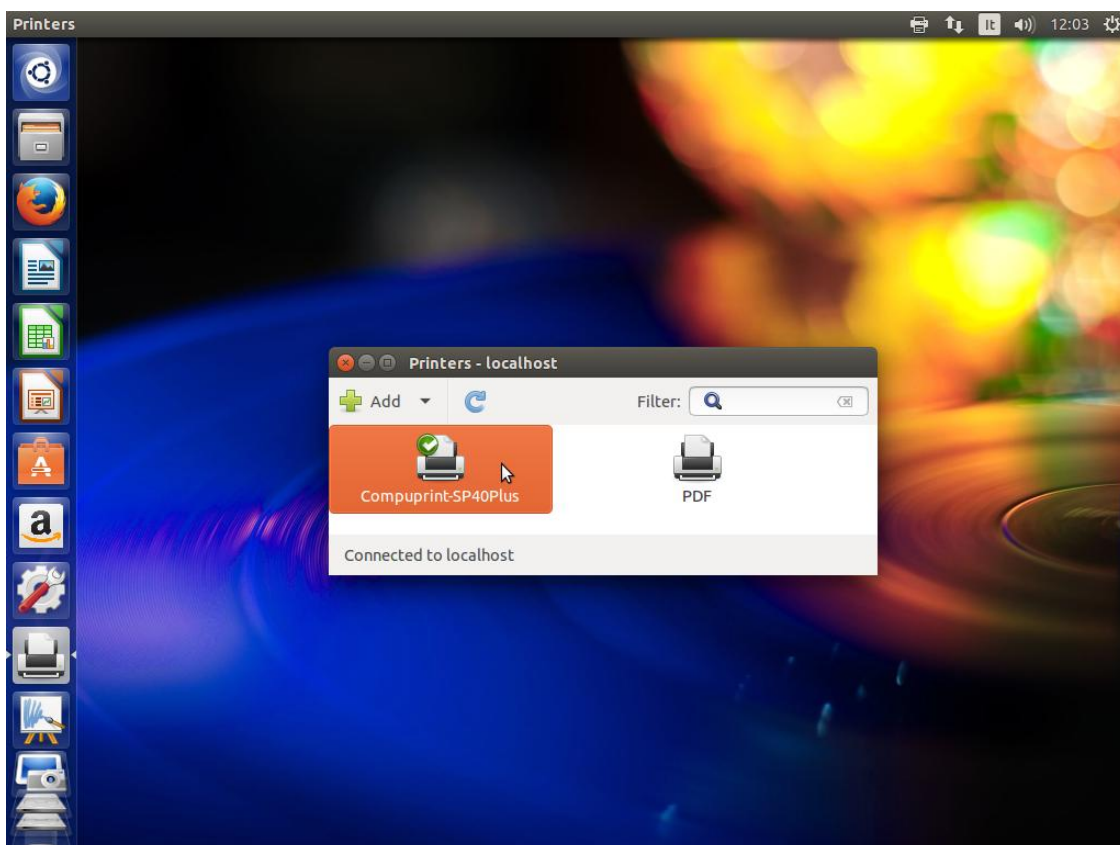
Printer is now installed and ready.

Install SP40PLUS on USB Interface:

Click on System Settings Icon: and select Printers:
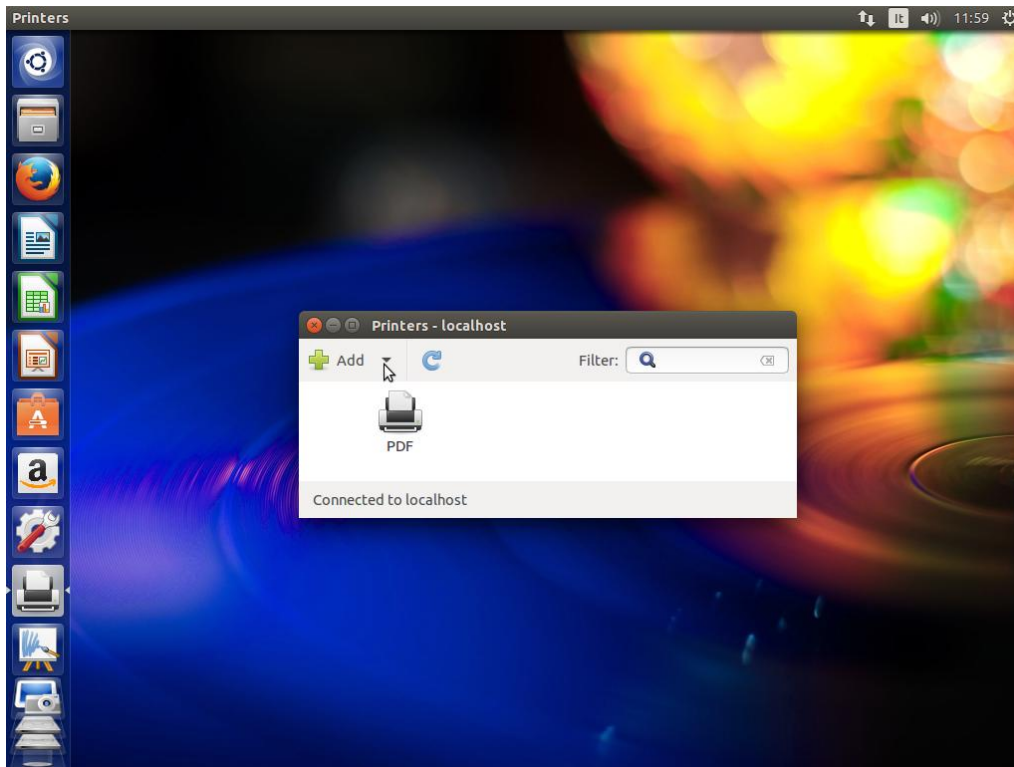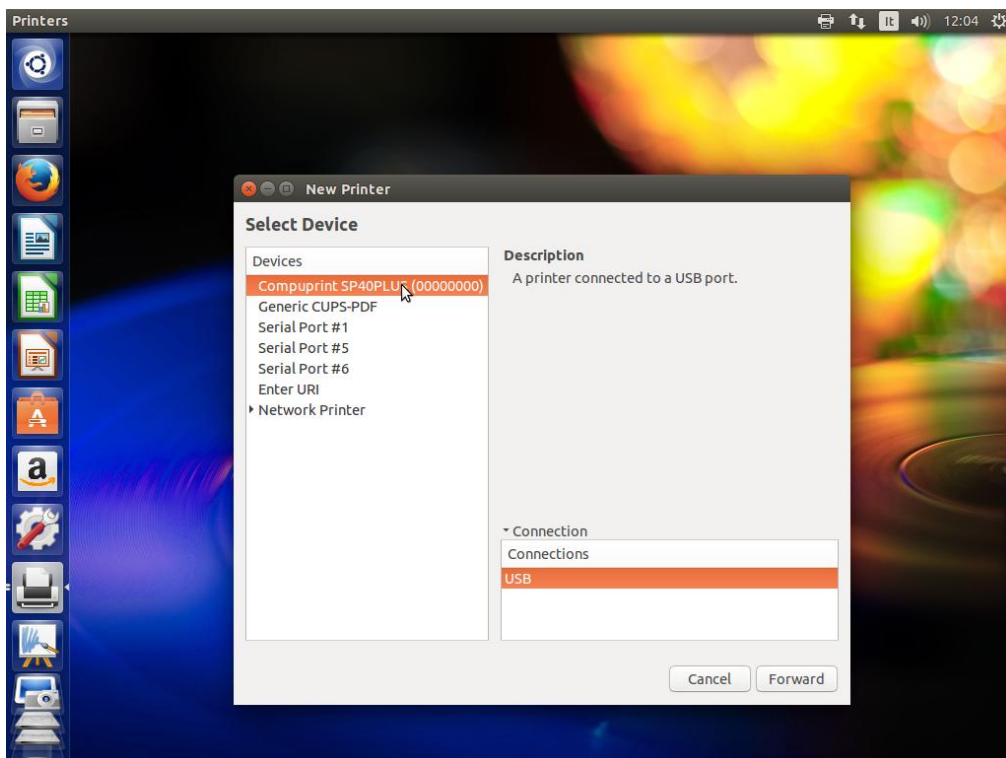
Click on ADD:

Select: CompuprintSP40PLUS (00000000), click on Forward and repeat all point from **B)**

Install SP40PLUS on Serial Interface:

Click on System Settings Icon: and select Printers:
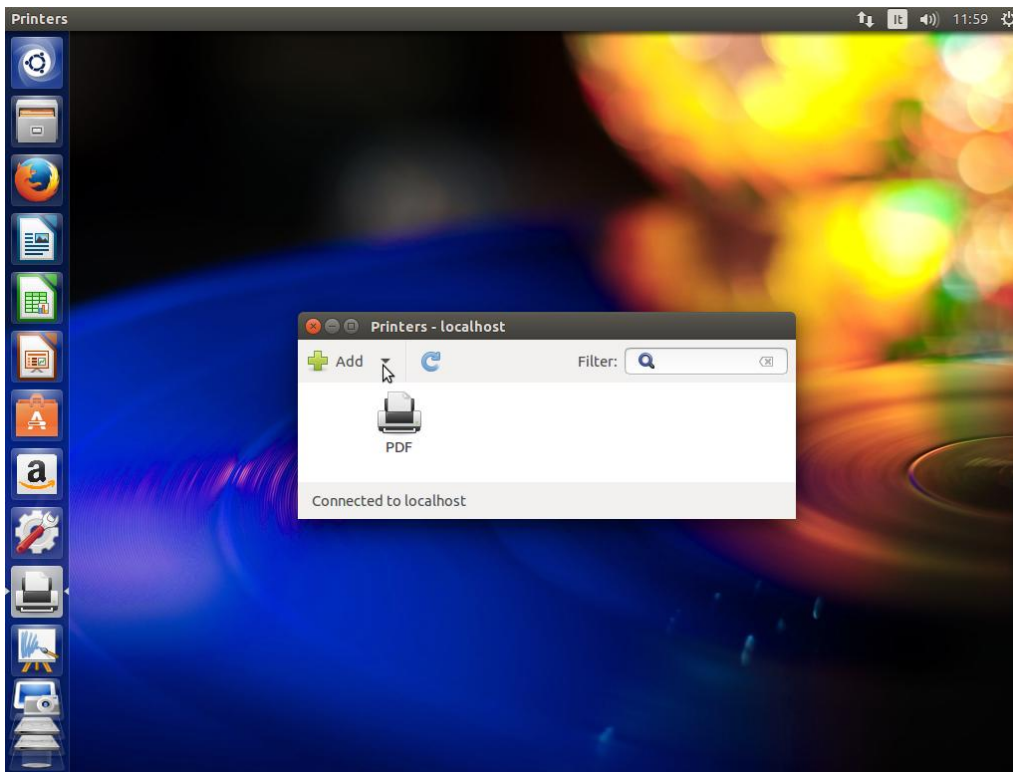
Click on ADD:
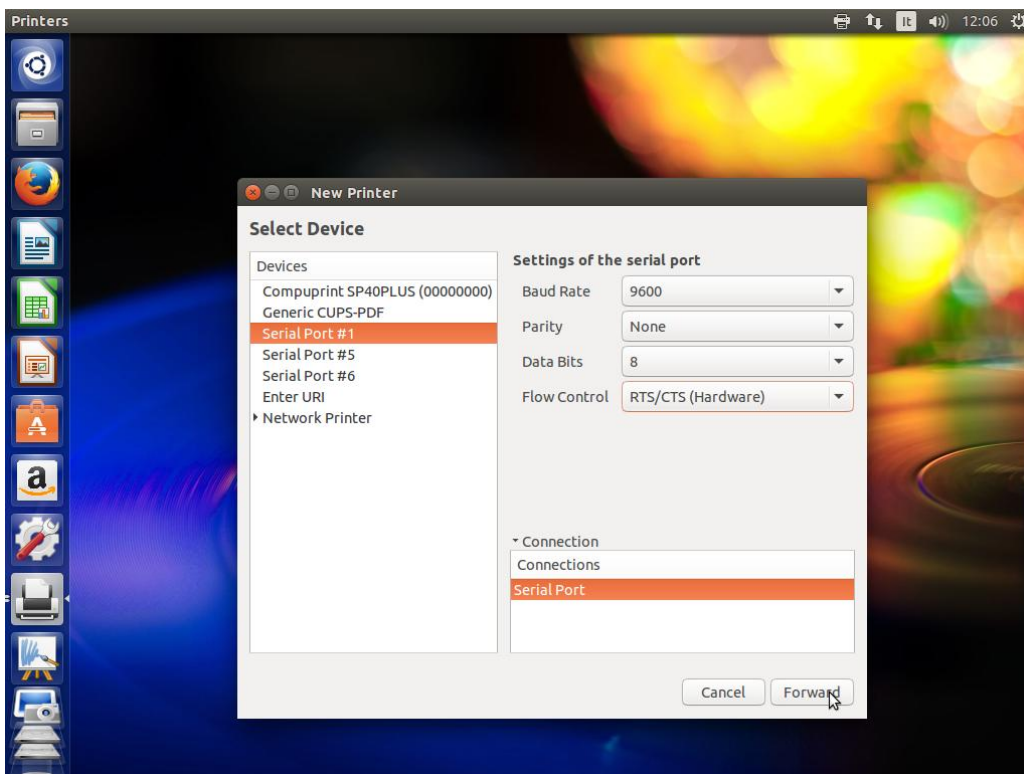
Select SERIAL PORT #x, change Settings of the serial port to: Baud Rate 9600, Parity None, Data Bits: 8, Flow Control RTS/CTS (Hardware) and press Forward. Now repeat all point from **A)**

UBUNTU 32/64 Bits (Alternative methods) and SUSE Driver (CUPS) Installation

Open Mozilla Firefox Browser and type address: http://localhost:631
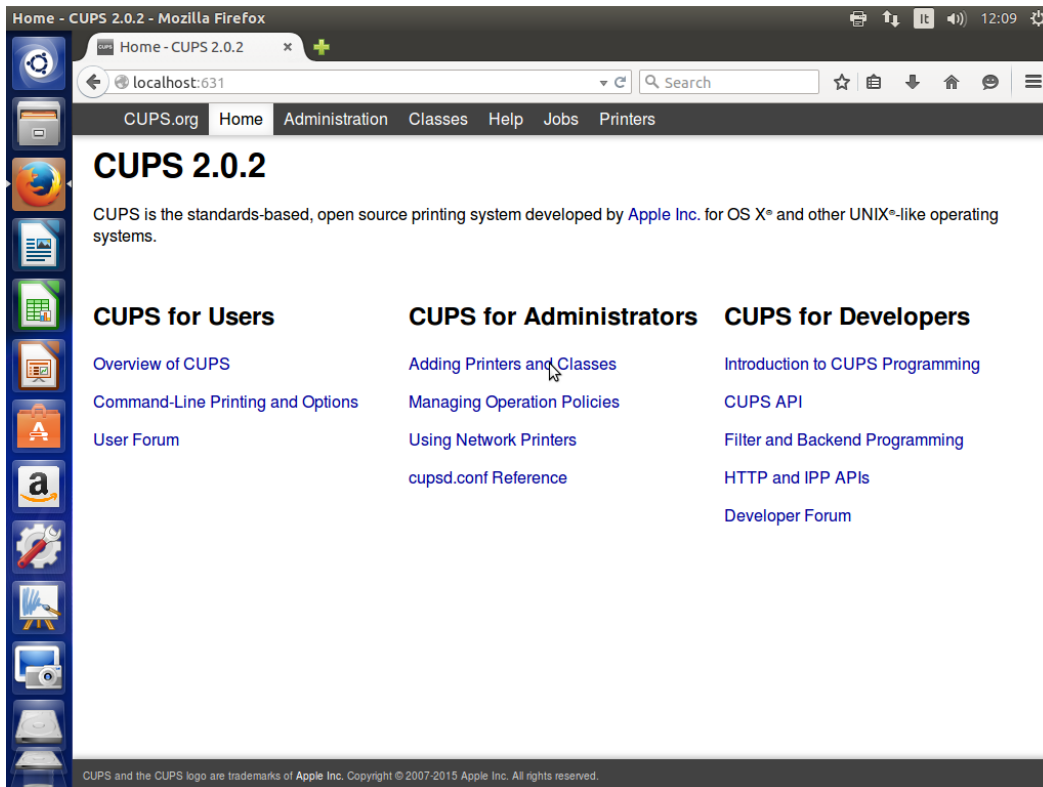
From main menu, select ADMINISTRATION:
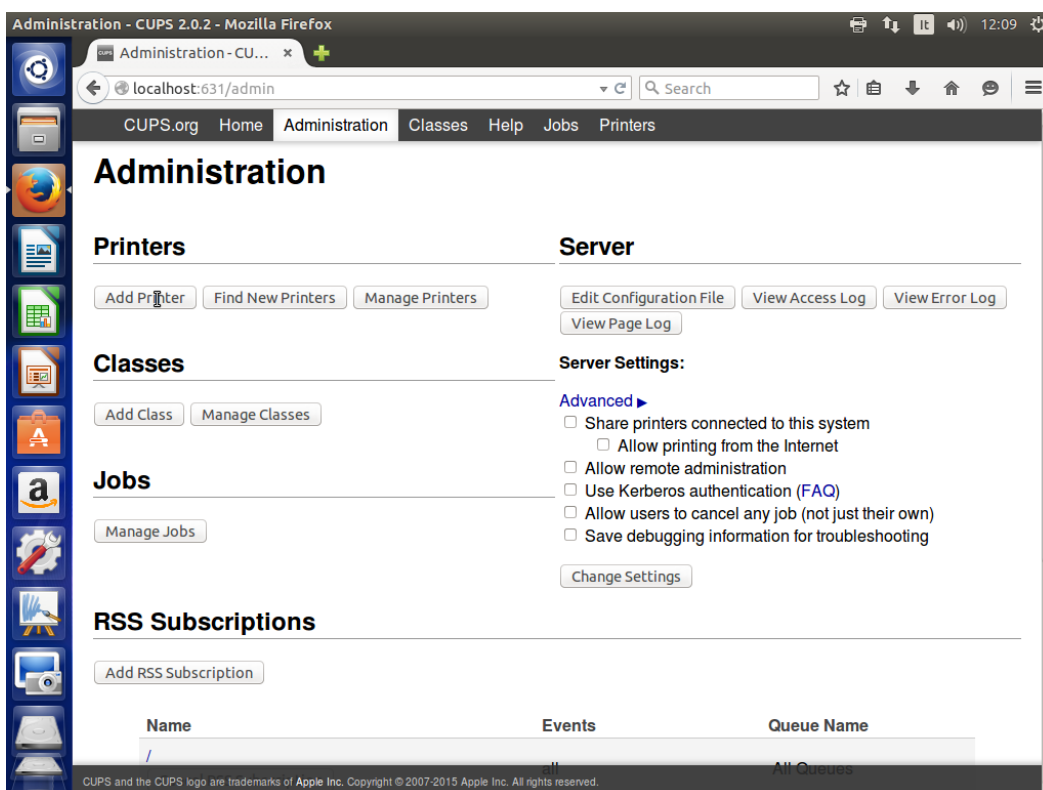
Press Add Printer Button:
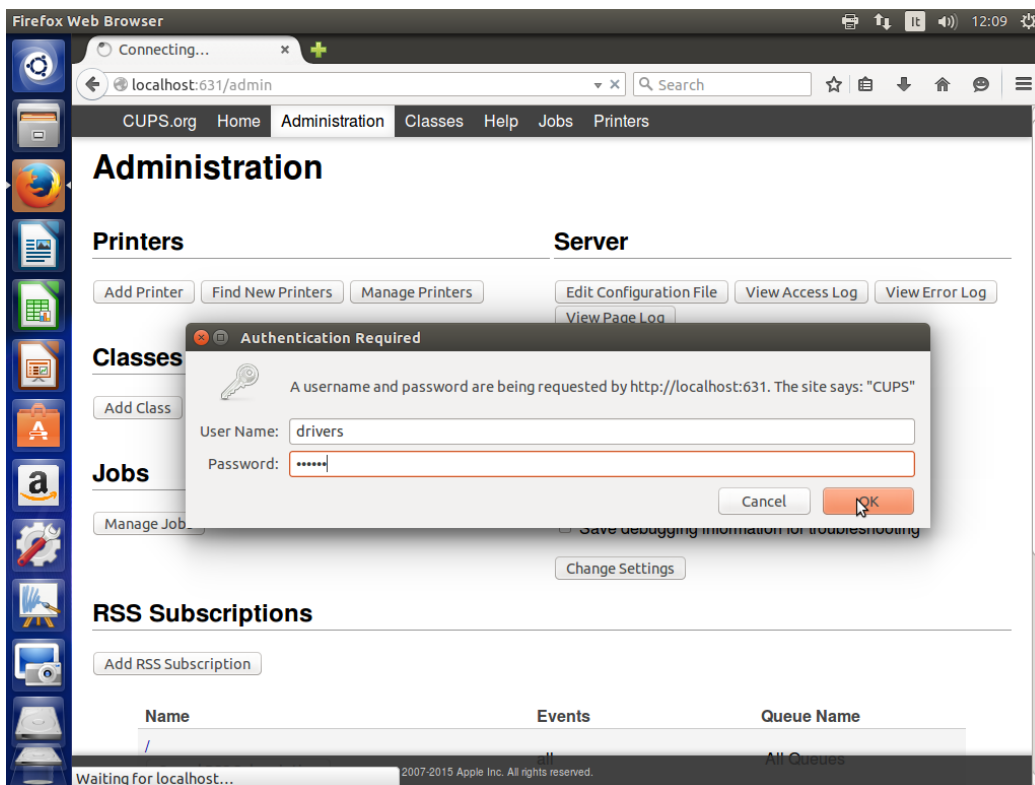
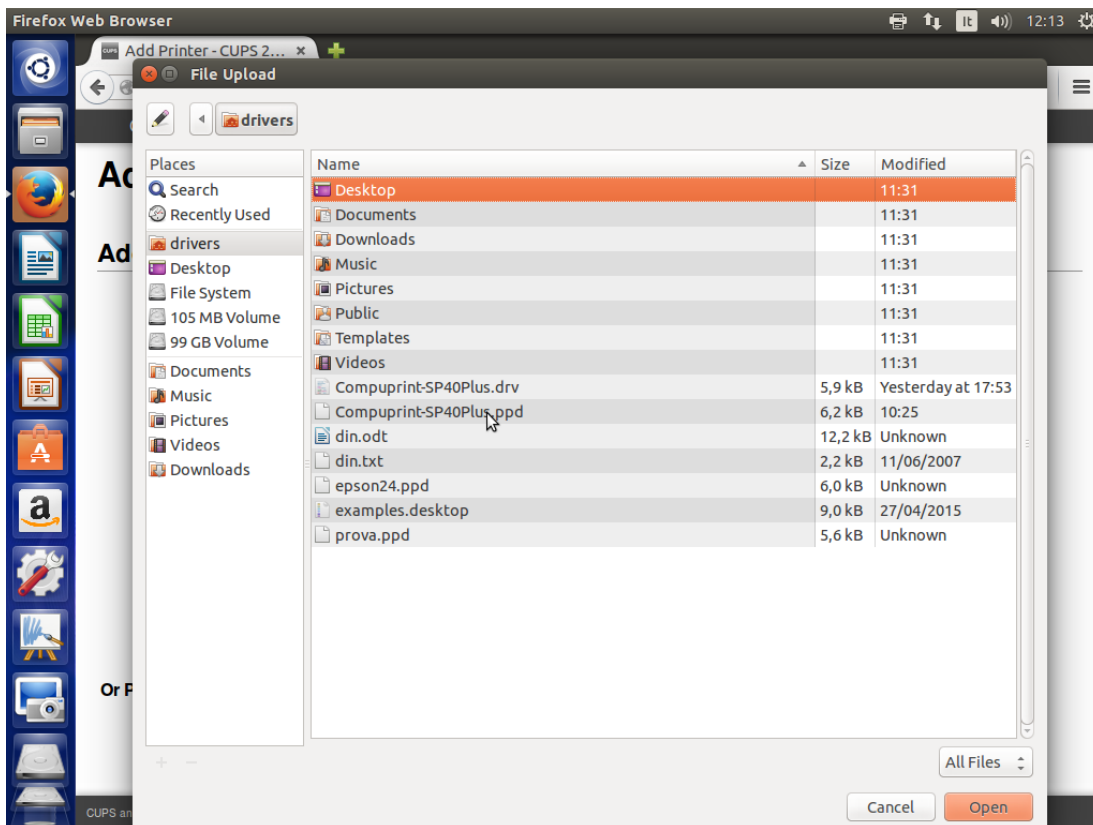Insert User Name and Password of system administrator
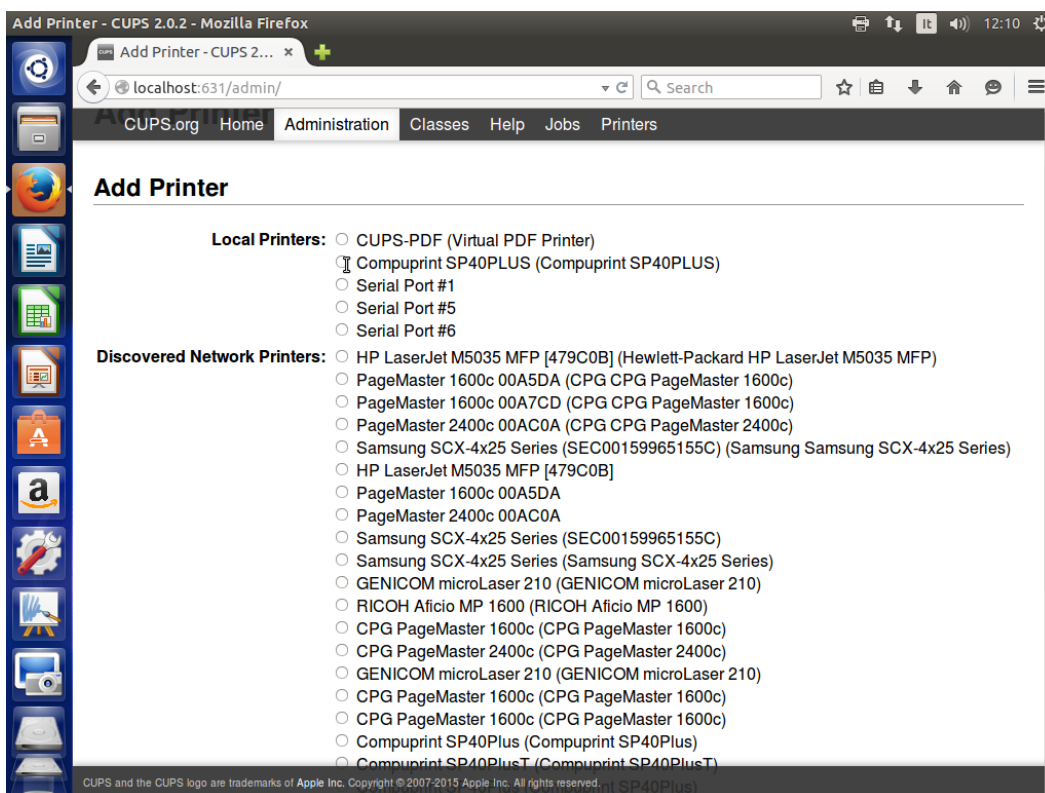
On Local Printers select: Compuprint SP40PLUS (for USB Interface) or Serial #x (for serial interface) or LPT#x (for centronics interface).
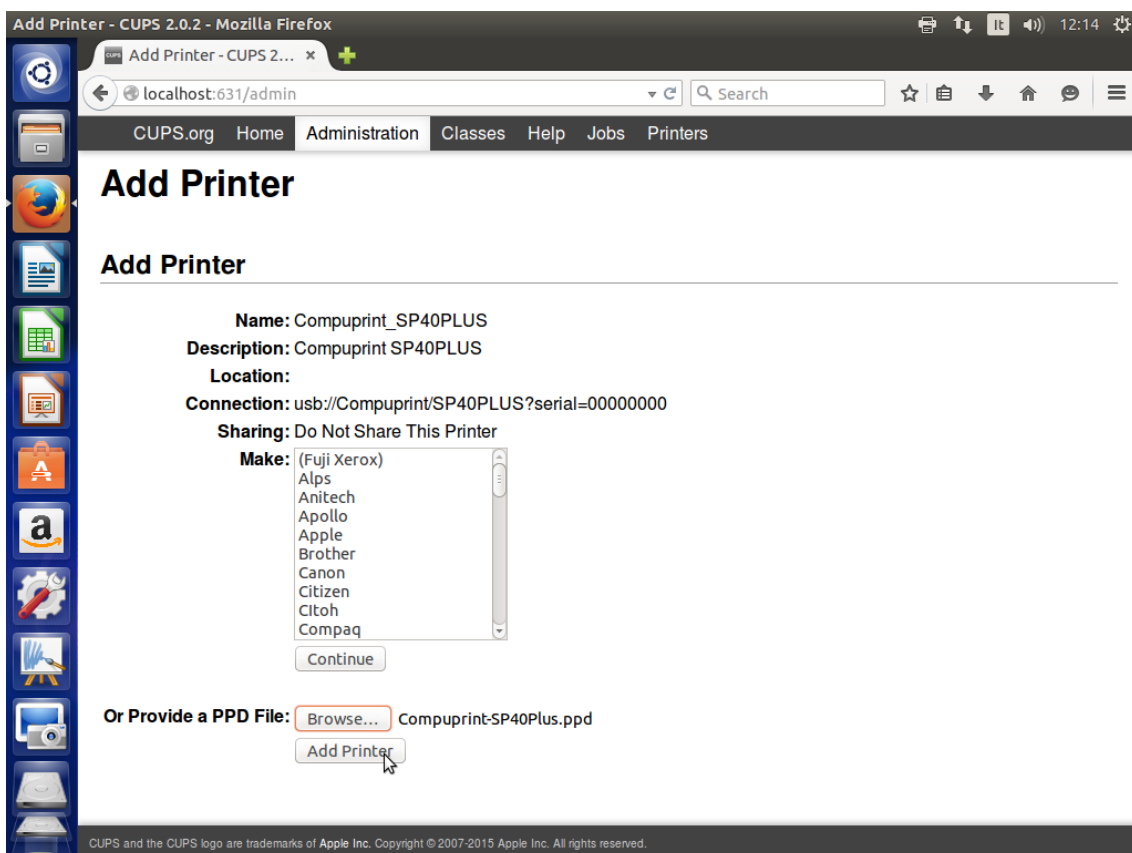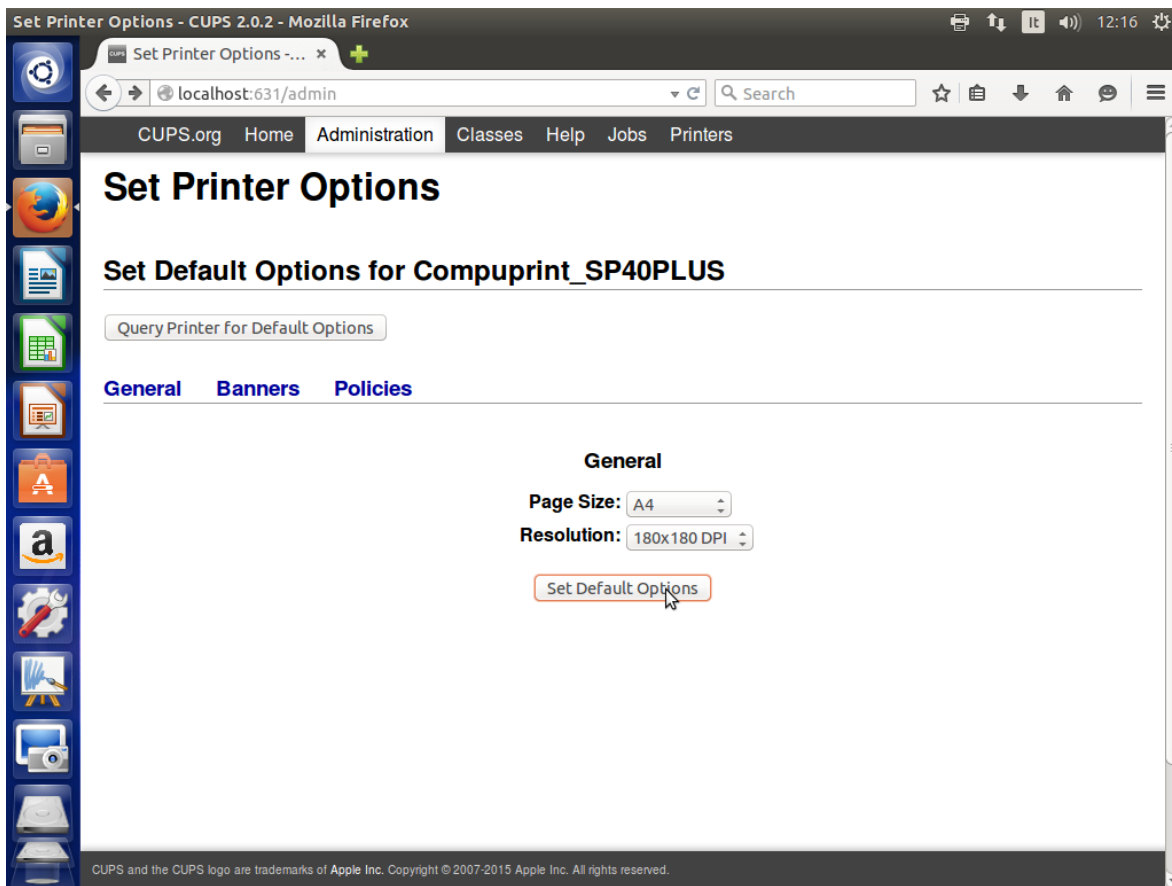Press CONTINUE button
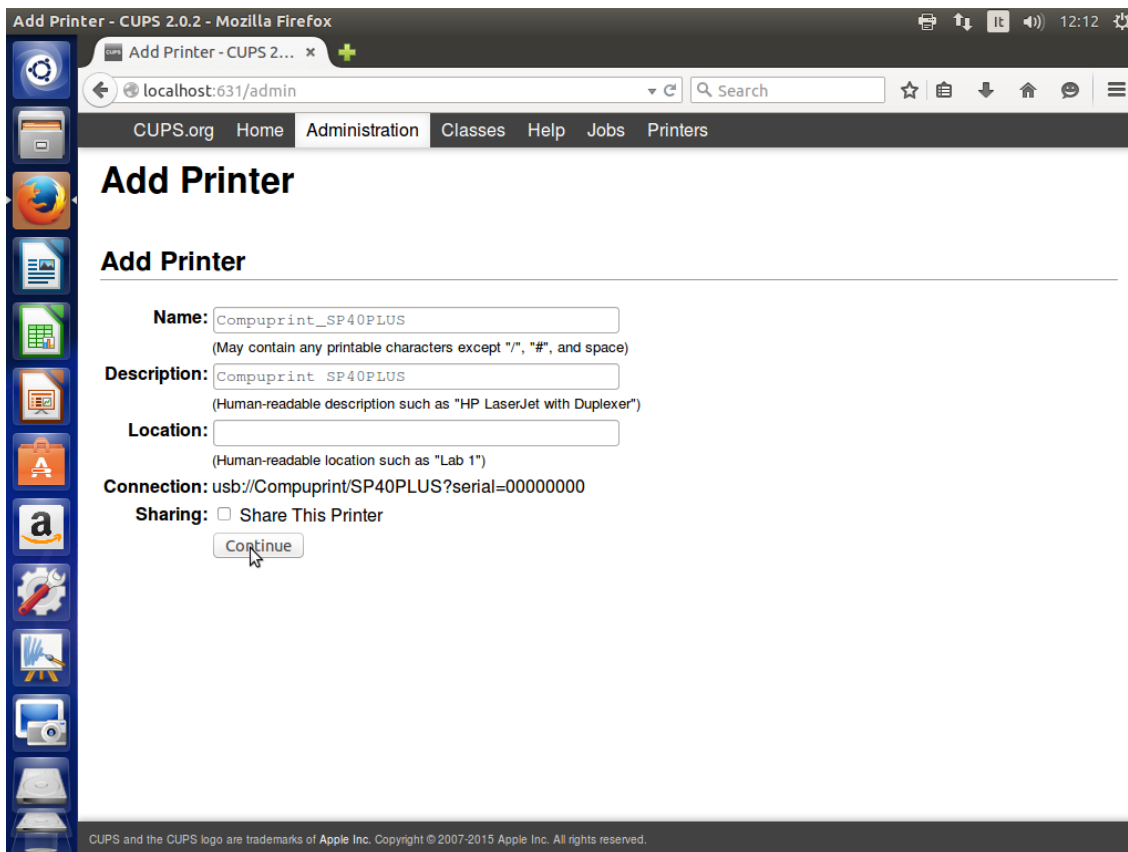
Press CONTINUE button
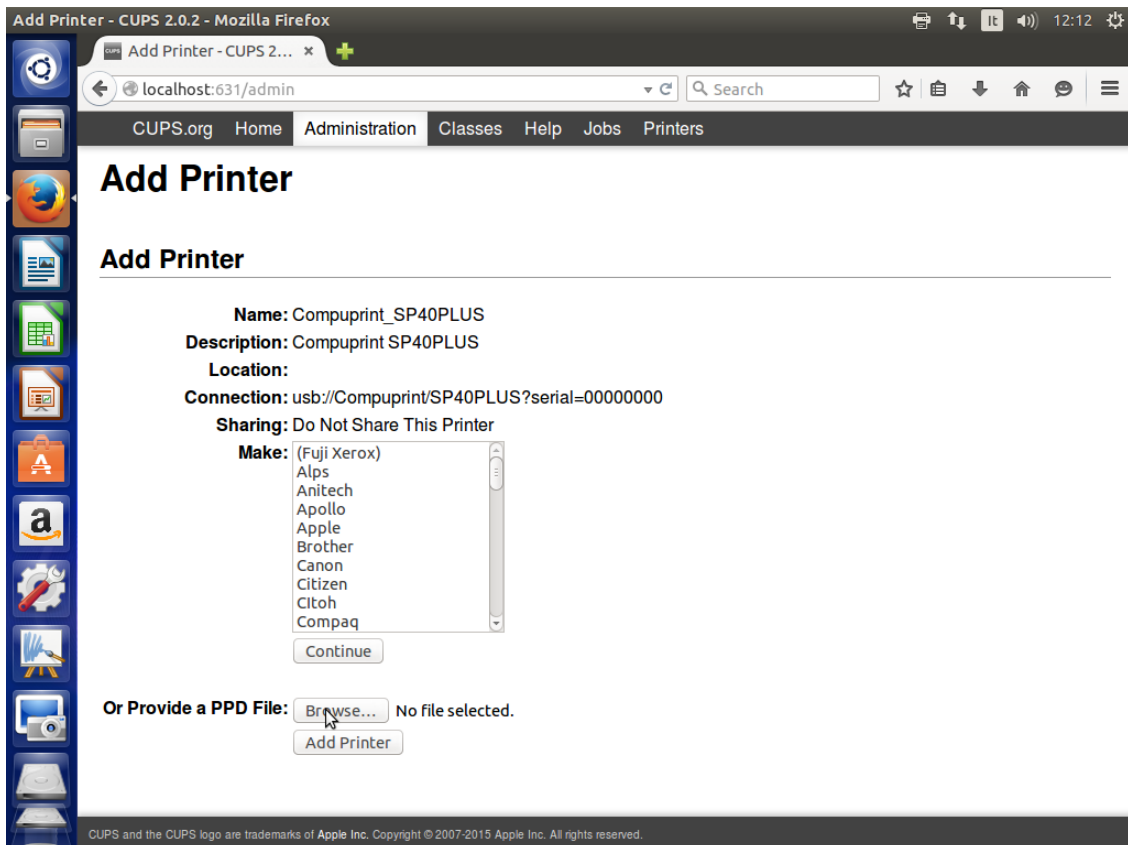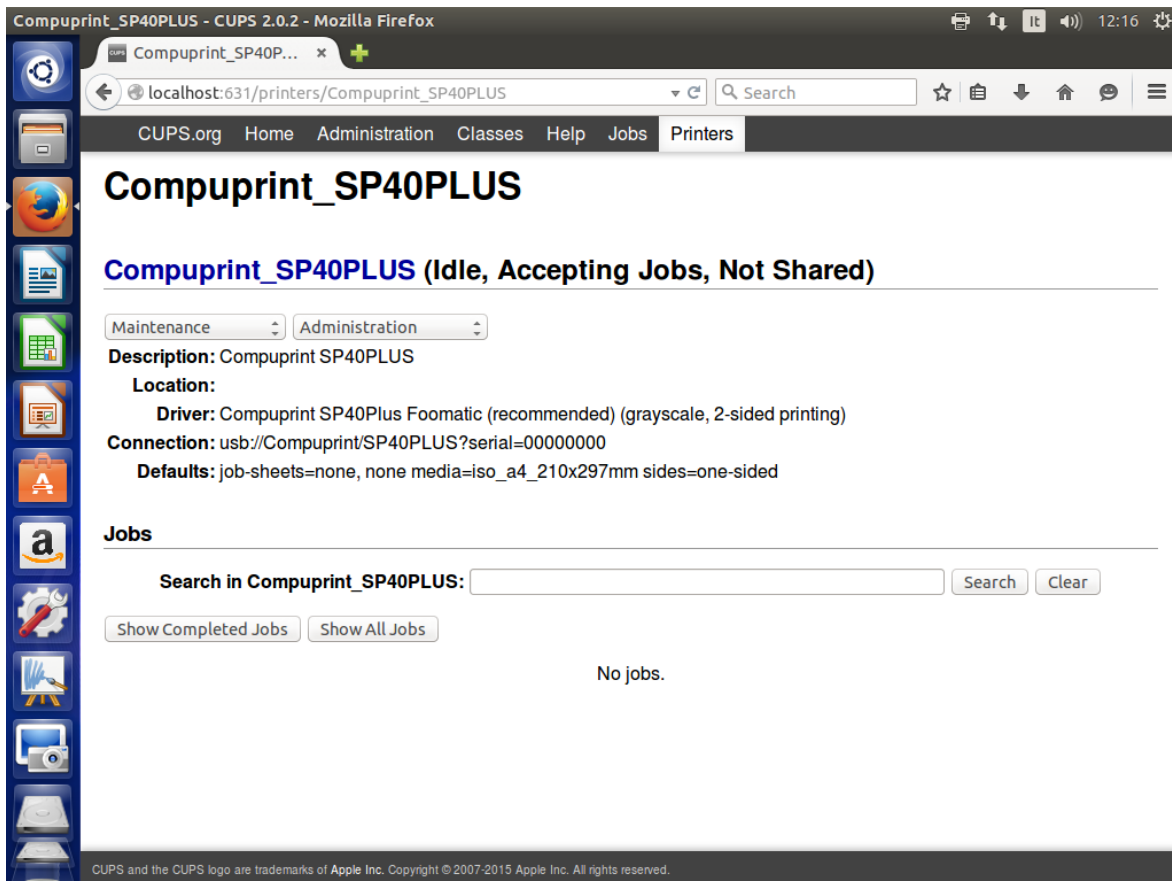

Click on BROWSE

Choose Compuprint-SP40Plus.ppd (on the drive where you saved it) and click on OPEN button
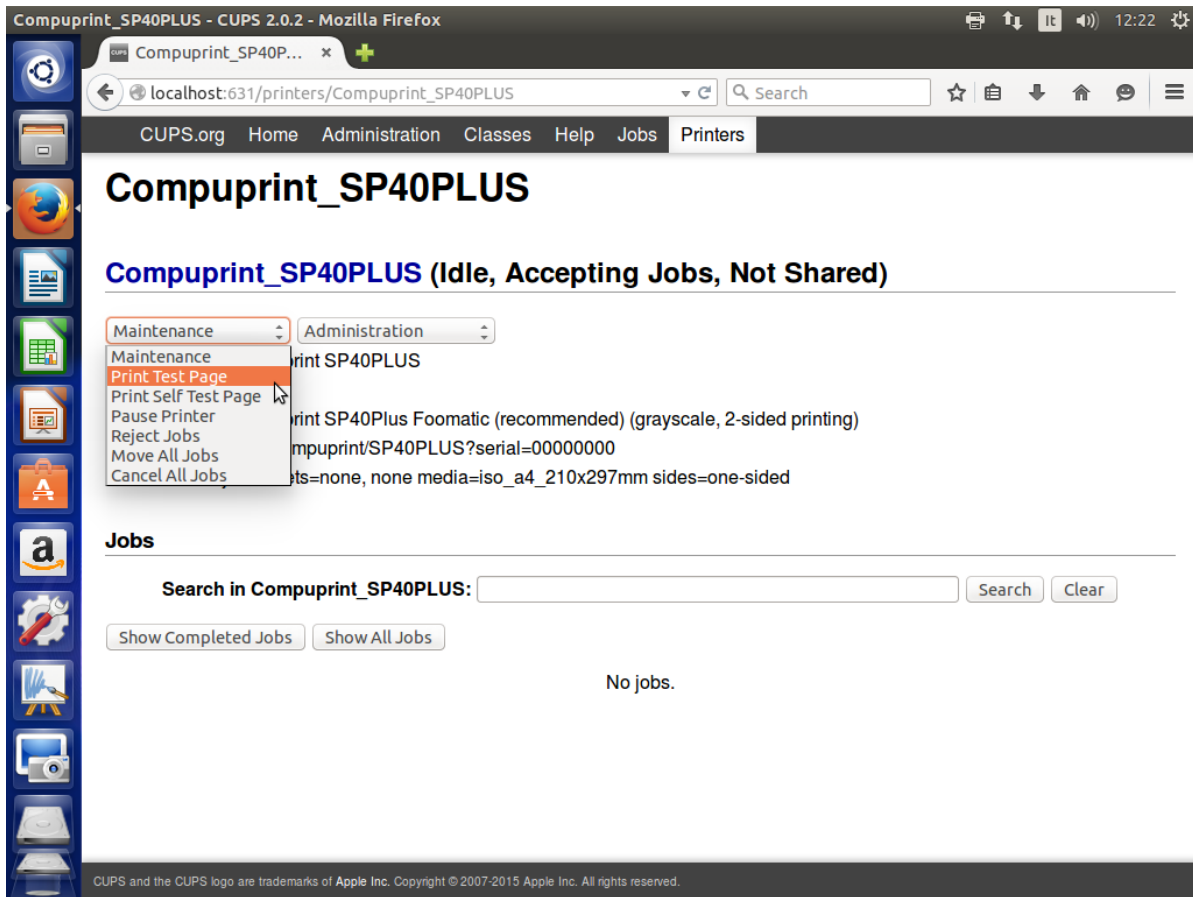

Click on ADD PRINTER

Click on SET DEFAULT OPTIONS and select PRINTERS from drop-down menu

Printer is now installed and ready.

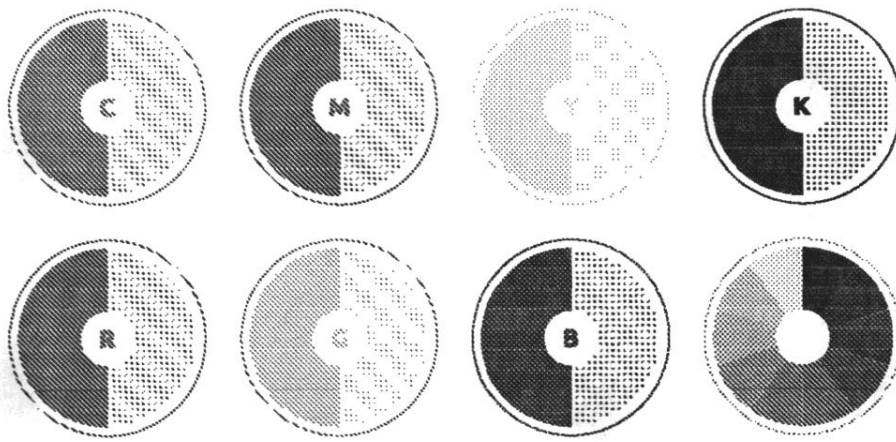To print TEST PAGE, select PRINT TEST PAGE from this button:

Insert an A4 sheet into the printer.

Check printer output like this:

Printer test page

ubuntu

Media Limits: 0.25 x 0.50 to 8.01 x 11.19 inches
Job ID: Compuprint-SP40PLUS-147
Driver: COMPUPRINT.PPD
Driver Version: 1.1
Description: Compuprint SP40PLUS
Printer Location: drivers-OptiPlex-380
Make and Model: Compuprint SP40Plus Foomatic (recommended)
Printer: Compuprint-SP40PLUS
Created at: Thu May 7 12:31:47 2015
Printed at: Thu May 7 12:31:47 2015

Troubleshooting

The installation process requires that the service CUPS is active.

If the CUPS service is not activated when you start the computer, do the following steps:

1) On keyboard press **CTRL + ALT + T** (this keys sequence open a Terminal Window)
2) Into the Terminal Windows type the following command: **sudo /etc/init.d/cups start**

Now CUPS Service is started and ready

How to remove the Compuprint linux drivers

1) Delete CompuprintSP40 printer on CUPS server
2) Open Terminal Window
3) With su command (or sudo command on ubuntu) get right of the administrator
4) Send commands listed below:

   # make remove
   # make clean