



# **SAM4S Receipt Printer**

## **CUPS Driver**

### **Ubuntu Installation Manual**

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## 1. Introduction

The purpose of this document is to describe how to install a SAM4S Receipt printer driver for Linux, in detail. The document provides information on installation of SAM4S Receipt Printer driver on Ubuntu 12.04 LTS, 12.10, 13.10 (32 bit and 64 bit) operating systems.

## 2. Overview

SAM4S Receipt printer driver for Linux can support thermal receipt printing with various paper sizes along with Cash drawer functionality.

## 3. Prerequisite

SAM4S Receipt printer driver with Linux support and has been tested on the following distributions of Linux:

- Ubuntu 12.04 LTS 32 bit
- Ubuntu 12.04 LTS 64 bit
- Ubuntu 12.10 32 bit
- Ubuntu 12.10 64 bit
- Ubuntu 13.10 32 bit
- Ubuntu 13.10 64 bit

The operating system should have the gksu package to run SAM4S CUPS printer driver.

Follow the below steps to install this package

- Open the terminal

- Type **sudo apt-get update**

- Then type **sudo apt-get install gksu**

It will automatically install the gksu package.

## 4. Extracting files using GUI

To install this SAM4S Receipt Printer Driver version x.x.x.x for Linux by means of GUI, the user needs to be a root user.

Click on the ***SAM4S\_Receipt\_Printer\_Driver-x.x.x.x-Linux-x86-Install.tar.gz*** or ***SAM4S\_Receipt\_Printer\_Driver-x.x.x.x-Linux-x64-Install.tar.gz*** archive file to untar 32 bit or 64 bit driver installer respectively to a desired directory location.

[In the fire fox web browser, the setup will be downloaded inside the download folder. Right click → Open Containing folder → Right click → Open with Archive Manager → Right click Extract or click Extract → select the desired location → Click Extract]

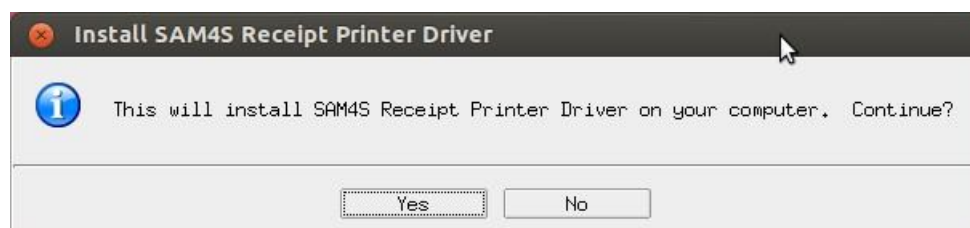
Switch to the directory location where the setup has been un tared and double click on the binary to install the driver.

## 5. Installation Wizard

The installation can be performed only in Administrator mode. Type the Administrator password [sudo user] when prompted.

Double click on the un-tared binary to initiate the installation of the driver.

To install the driver, click **Yes** in the confirmation screen to launch ***SAM4S Receipt Printer Driver Setup*** wizard, click **No** to cancel the installation.



Select the printer model from the drop down as shown in the following screen to install the CUPS printer driver for the model selected.

## Installation Manual for SAM4S Receipt Printer CUPS Driver



Click **Next** button on the above screen to proceed to next screen as shown below or, Click on **Cancel** to terminate installation.



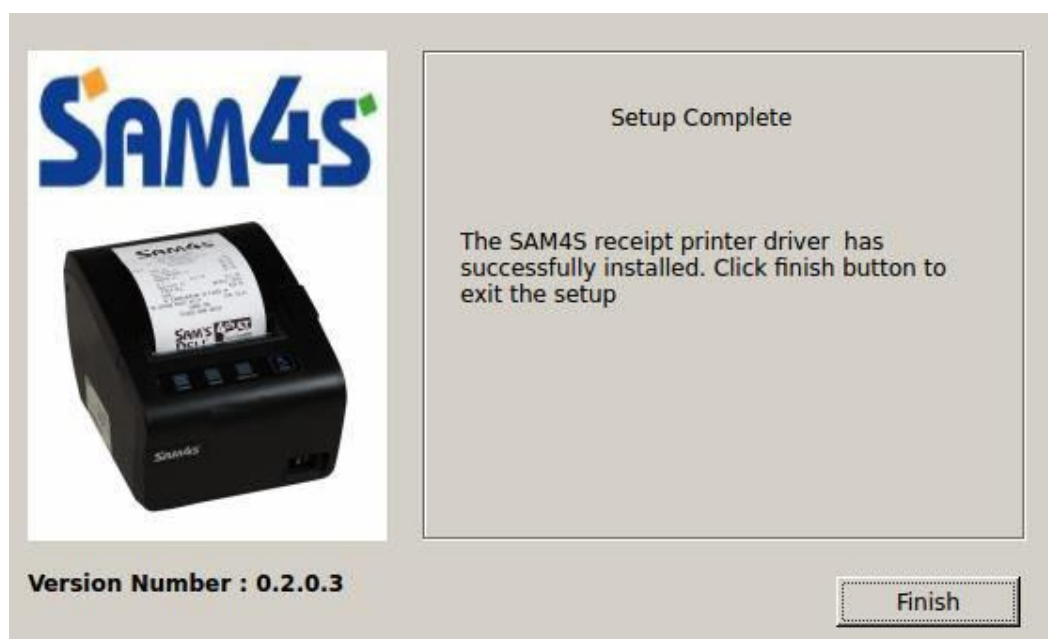
Select the printer interface type and click the Next button to add the printer driver for the selected interface type. It will copy all required driver file into appropriate directory.

Now all files will be copied in to the directory

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1. `/usr/lib/cups/filter/RasterToSAM4S`
2. `/usr/local/SAM4S`

After copying is complete, the finish page will show the message **Successfully installed SAM4S Receipt Printer Driver**.



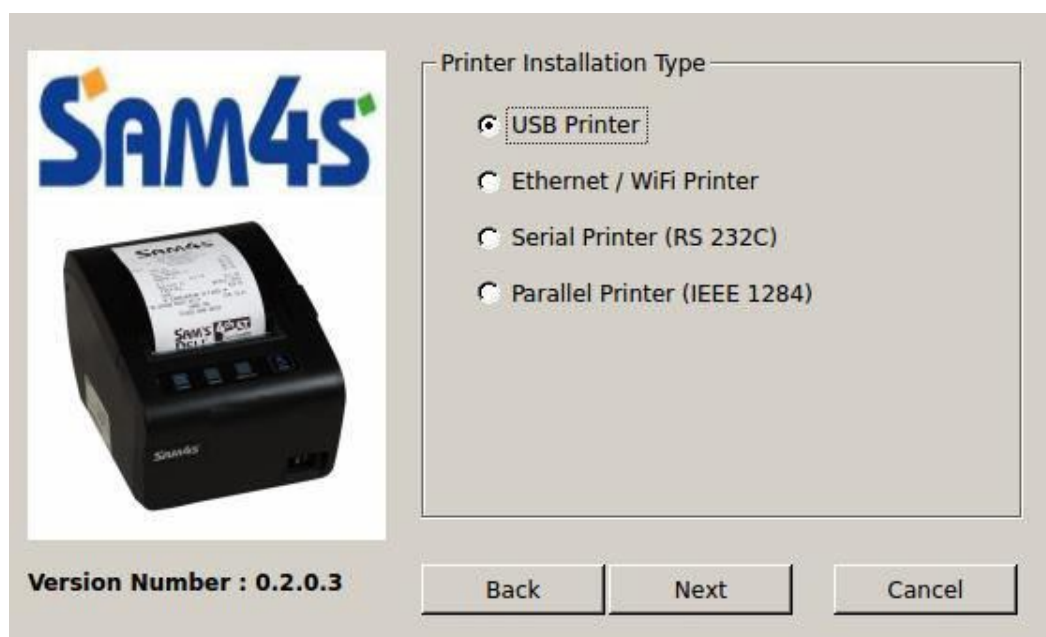
Click on **Finish** button in the setup wizard Finish page to complete the installation and exit the Installer.

## 6. Adding USB Printer

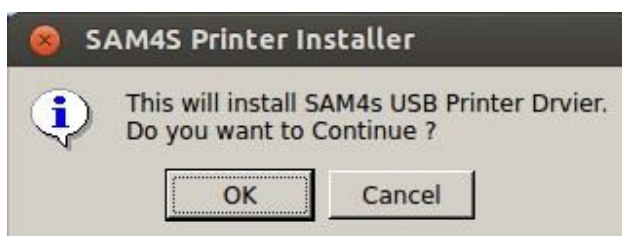
Following are the steps to add the USB Printer.

Double click the un-tared setup file to launch **SAM4S Receipt Printer Driver Setup** wizard, then select the appropriate printer model from the drop down to install the CUPS printer driver for the model selected and click **Next** button to precede to the following screen.

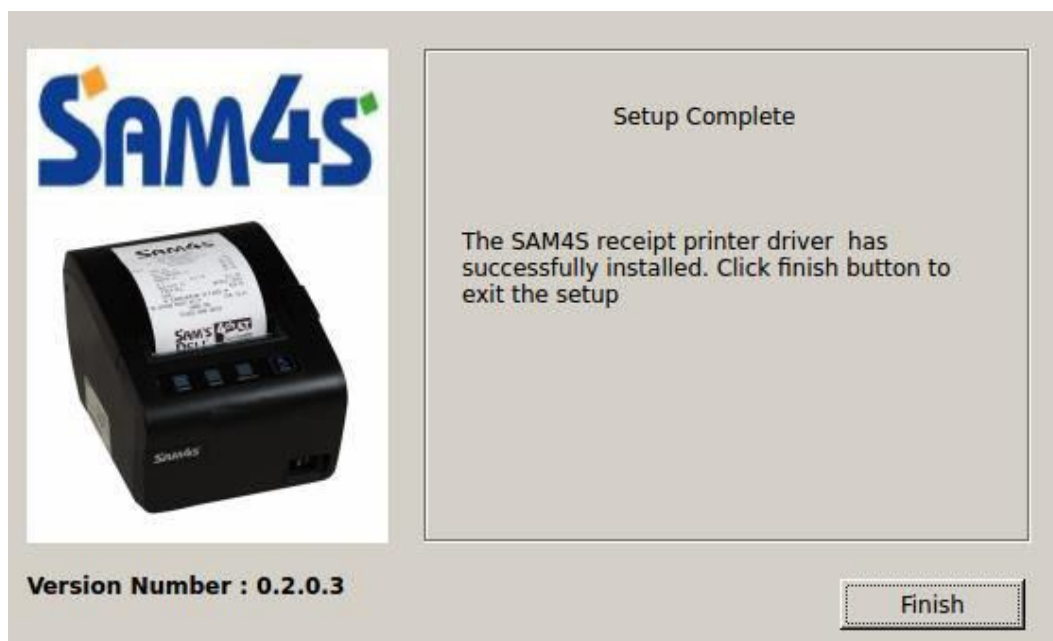
## Installation Manual for SAM4S Receipt Printer CUPS Driver



Select the **USB Printer** radio button and click **Next** button. The following confirmation screen will appear, click **OK** button to complete the installation or click **Cancel** button to terminate the installation.



On successful installation the following **Setup complete** screen will appear.



Click the **Finish** button on the **Setup Complete** screen to complete the setup.

Then turn-off and turn-on the USB Printer. The SAM4S USB Receipt printer will be added automatically.

## 7. Adding Serial Printer

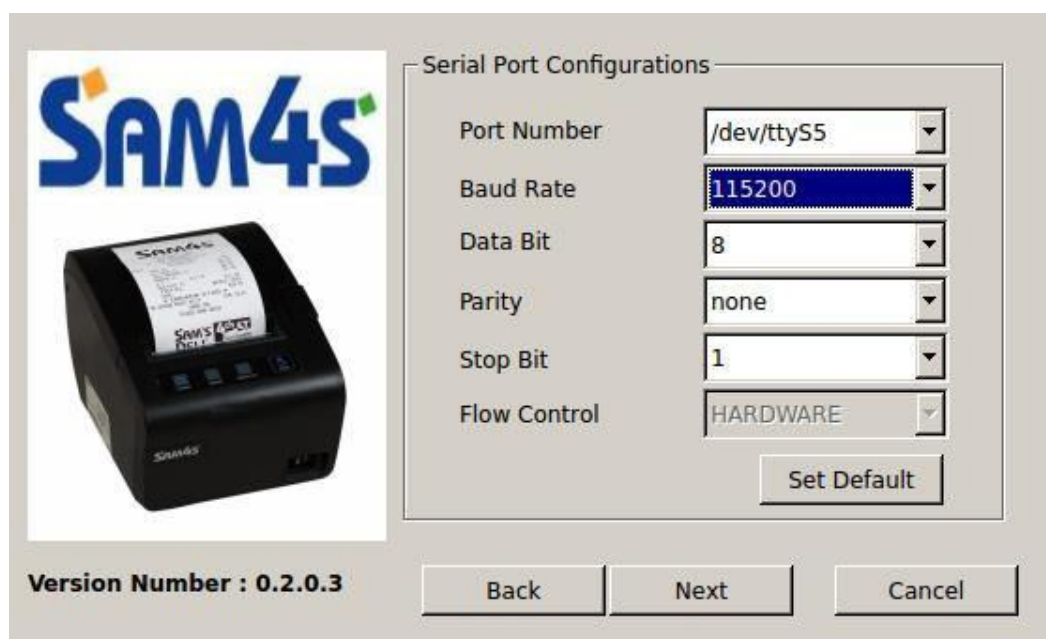
Following are the steps to add serial printer

Double click the un-tared setup file to launch **SAM4S Receipt Printer Driver Setup** wizard, then select the appropriate printer model from the drop down to install the CUPS printer driver for the model selected and click **Next** button to precede to the following screen.





Select the **Serial Printer** radio button and click **Next** button. The following confirmation screen will appear



Select the required serial port configurations to add the printer and then click the **Next** button to install and add SAM4S Serial Receipt printer. On successful installation the following **Setup complete** screen will appear.



Click the **Finish** button on the **Setup Complete** screen to complete the setup.

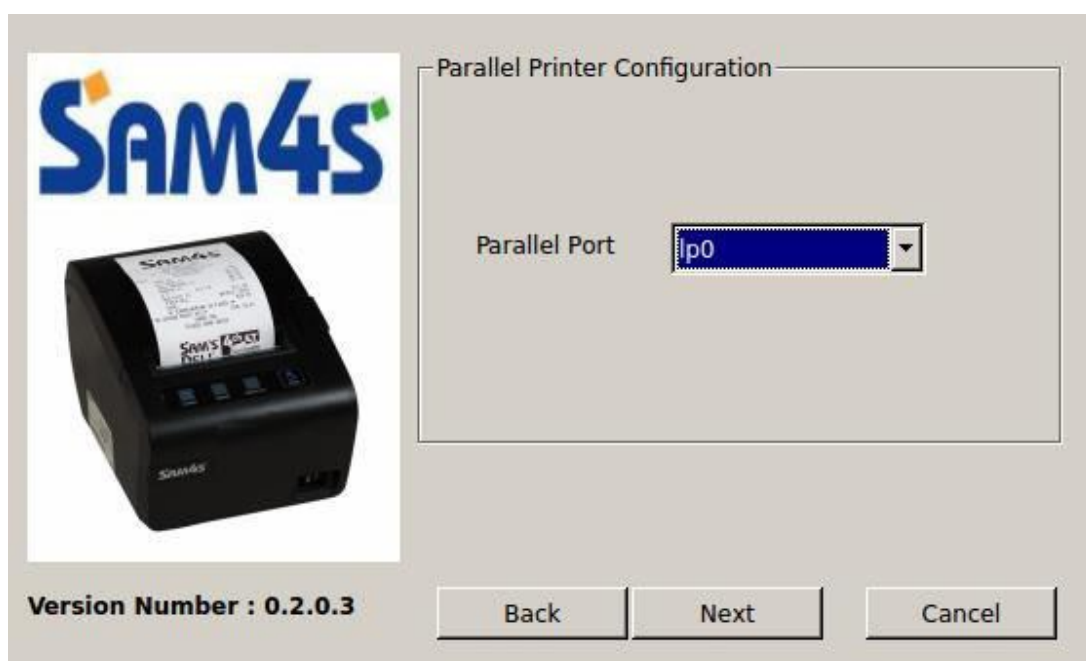
## 8. Adding Parallel Printer

Following are the steps to add parallel printer

Double click the un-tared setup file to launch **SAM4S Receipt Printer Driver Setup** wizard, then select the appropriate printer model from the drop down to install the CUPS printer driver for the model selected and click **Next** button to precede to the following screen.



Select the **Parallel Printer** radio button and click **Next** button. The following screen will appear



Select the parallel port to add the printer and then click the **Next** button to install and add SAM4S Parallel Receipt printer. On successful installation the following **Setup complete** screen will appear.



Click the **Finish** button on the **Setup Complete** screen to complete the setup.

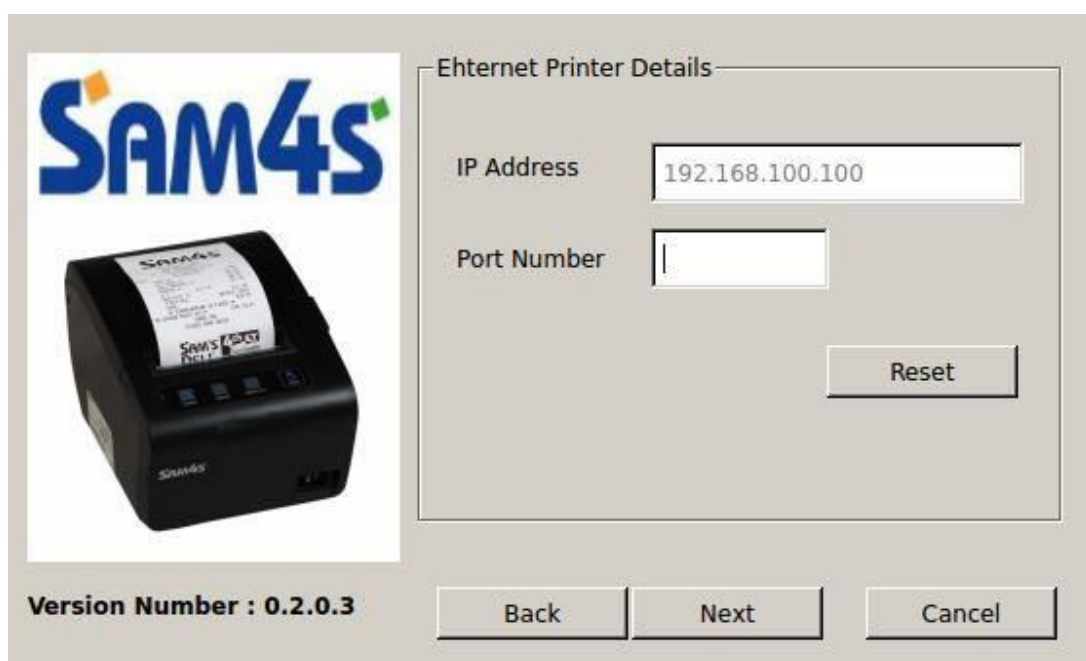
## 9. Adding Ethernet Printer

Following are the steps to add Ethernet printer

Double click the un-tared setup file to launch **SAM4S Receipt Printer Driver Setup** wizard, then select the appropriate printer model from the drop down to install the CUPS printer driver for the model selected and click **Next** button to precede to the following screen.



Select the **Ethernet Printer** radio button and click **Next** button. The following screen will appear



Enter the valid SAM4S Ethernet Receipt printer IP address and port number to add the printer and then click the **Next** button to install and add SAM4S Ethernet

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Receipt printer. On successful installation the following **Setup complete** screen will appear.

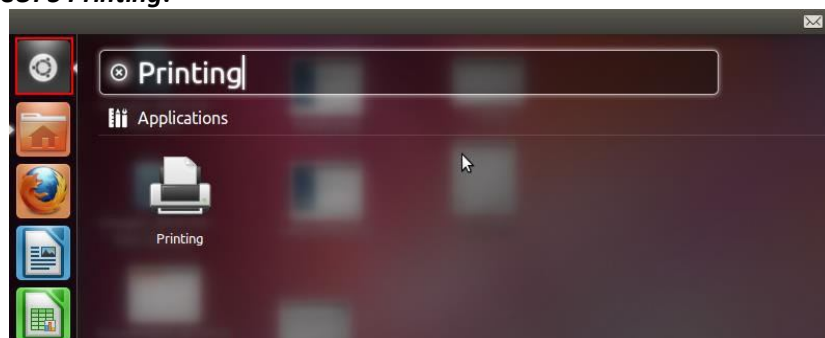


Click the **Finish** button on the **Setup Complete** screen to complete the setup.

### 10. Printers & Printer Options

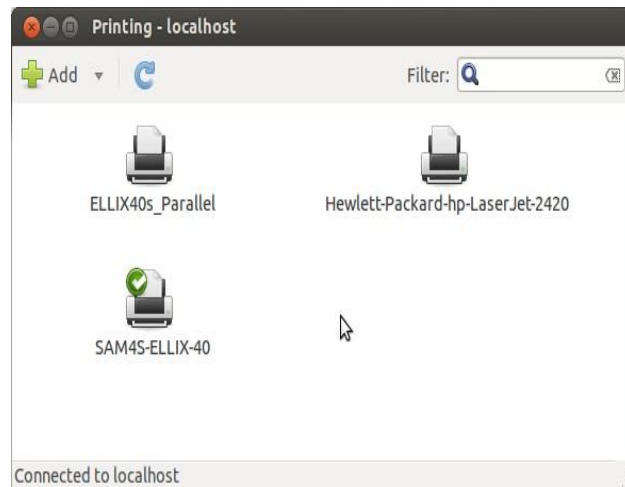
Following are the steps to view installed printers and make changes to printer options

Click on the **Ubuntu Wubi** [Marked as red in the image below] icon which is on the top right of the menu and type in **Printing** and click on the **Printing** icon on the dashboard to launch the **CUPS Printing**.

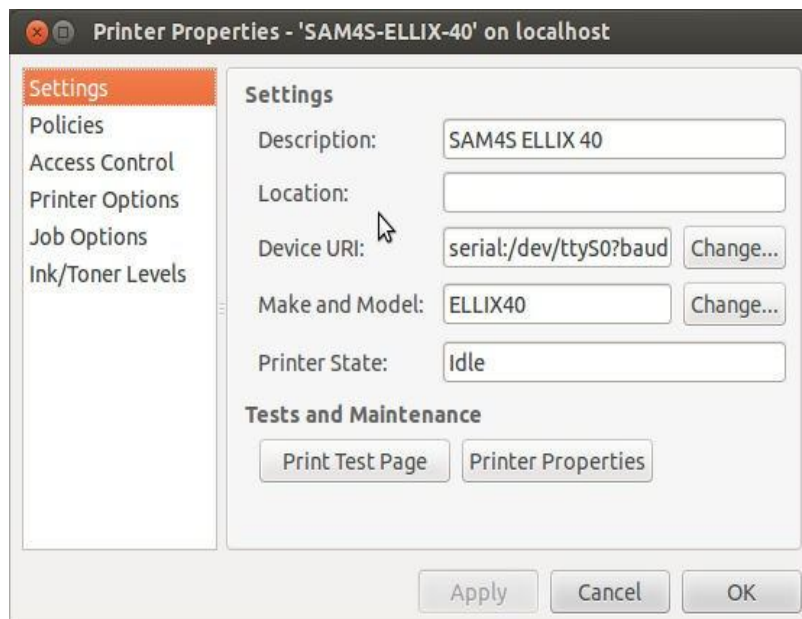


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The **Printing** will list all the available **printers**.

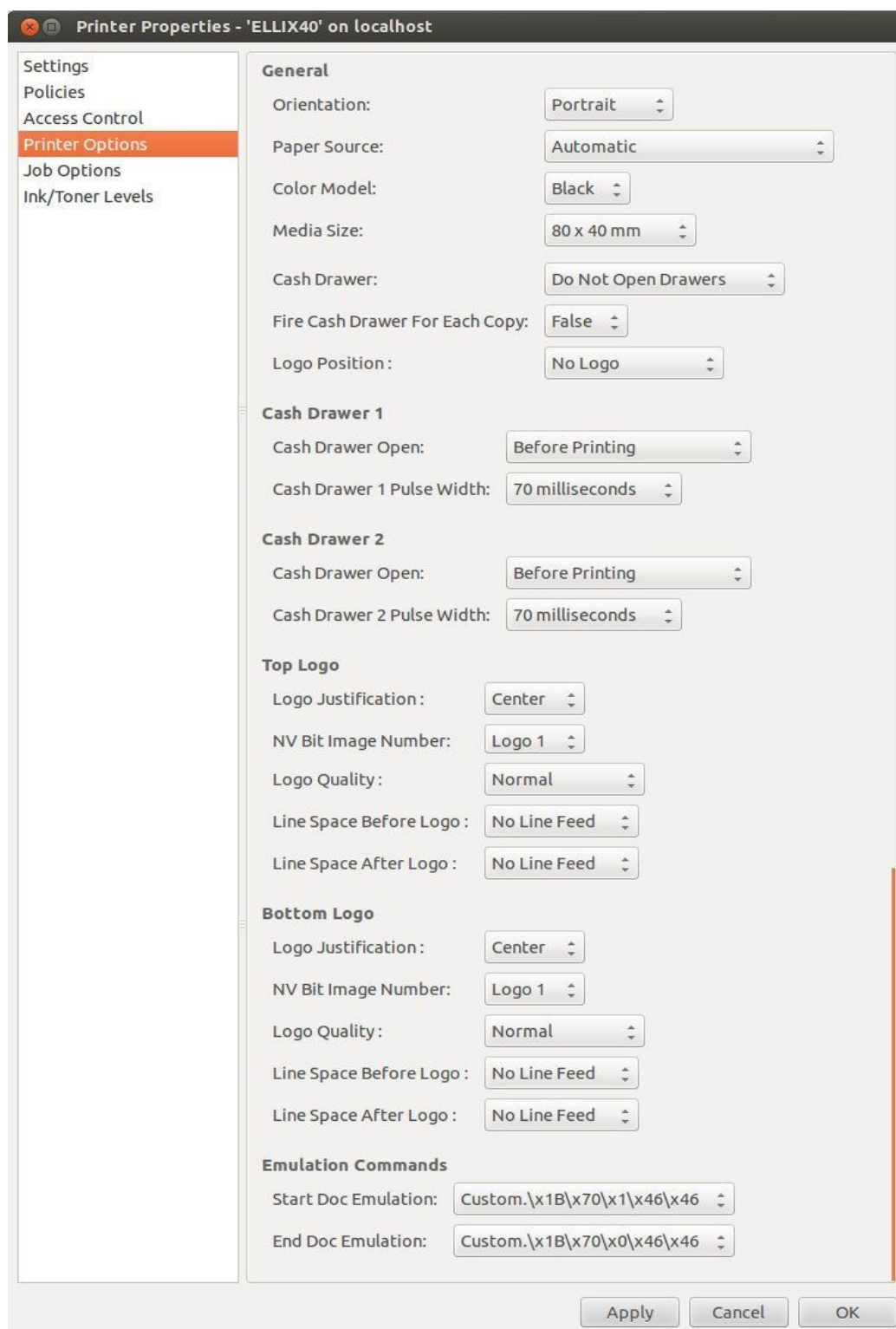


Select and right click on the printer, a menu pops up and select **Printer Properties** from the menu to open the printer properties page of the corresponding printer.



Select the **Printer Options** from the left side menu to view and change various printer options corresponding to the printer





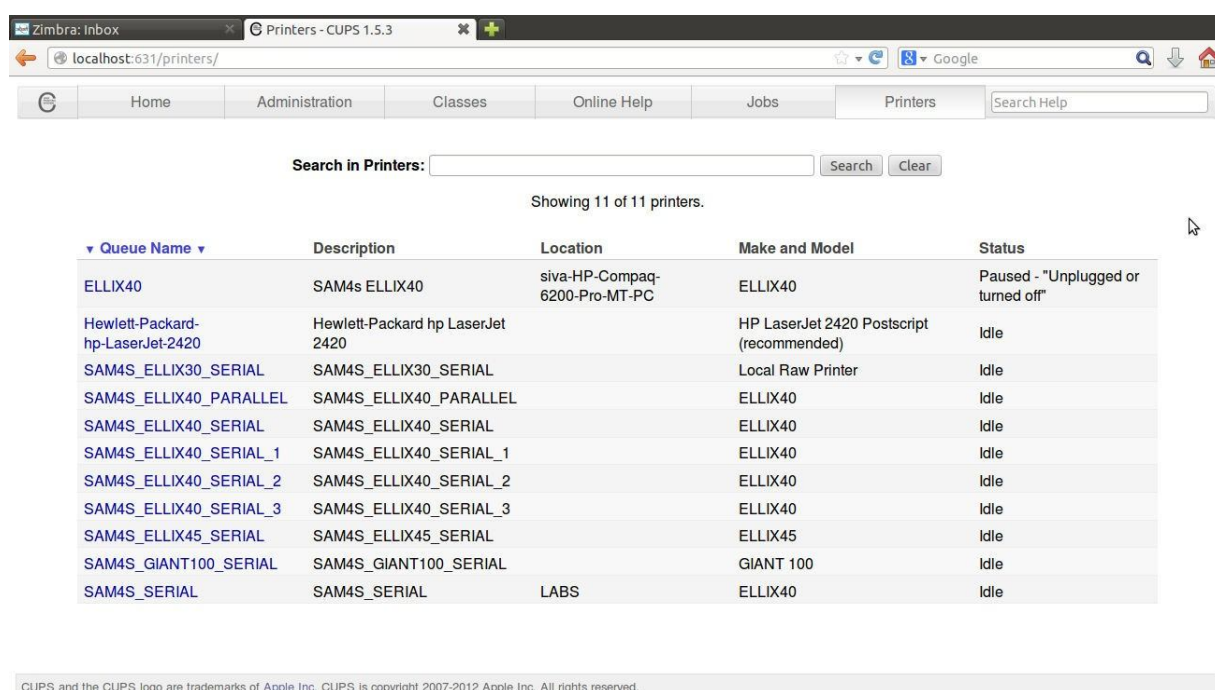
Make necessary changes on the **Printer Options** page and Press **Apply** to save the changes or Press **OK** to save and close the Printer Properties window or Press **Cancel** to discard the changes.



## 11. Custom Printer Options

All custom options can be changed only from the CUPA web admin page and not from printer property page; following are the steps to reach the CUPS web admin page.

Launch the web browser and go to the CUPS web admin page address (<http://localhost:631>) and then click the **Print** tab in the CUPS web admin page as shown in the following screen



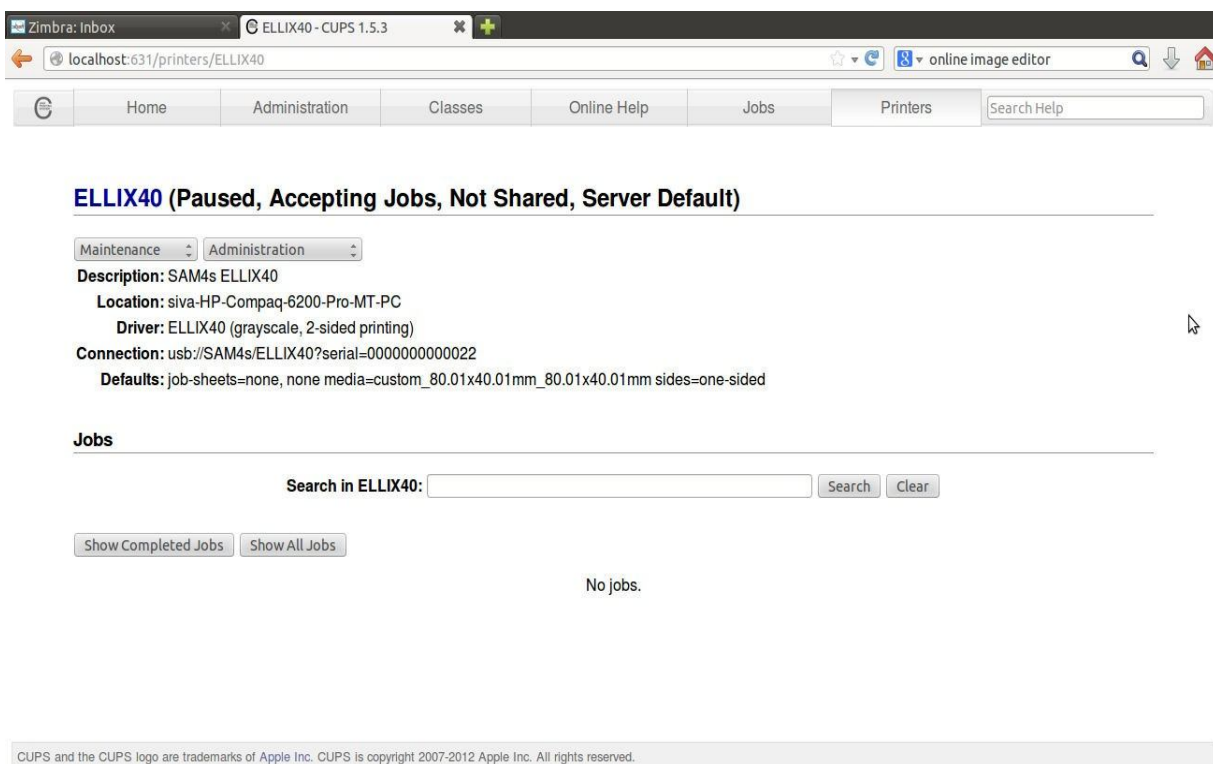
The screenshot shows a web browser window with the address bar set to [localhost:631/printers/](http://localhost:631/printers/). The page has a navigation bar with tabs: Home, Administration, Classes, Online Help, Jobs, and Printers. The 'Printers' tab is selected. Below the navigation bar is a search bar labeled 'Search in Printers:' with a 'Search' button and a 'Clear' button. The main content area displays a table of printers, with a message 'Showing 11 of 11 printers.' above it. The table has five columns: Queue Name, Description, Location, Make and Model, and Status. The first printer listed is 'ELLIX40' with status 'Paused - "Unplugged or turned off"'. Other printers include 'Hewlett-Packard hp-LaserJet-2420', 'SAM4S\_ELLIX30\_SERIAL', 'SAM4S\_ELLIX40\_PARALLEL', 'SAM4S\_ELLIX40\_SERIAL', 'SAM4S\_ELLIX40\_SERIAL\_1', 'SAM4S\_ELLIX40\_SERIAL\_2', 'SAM4S\_ELLIX40\_SERIAL\_3', 'SAM4S\_ELLIX45\_SERIAL', 'SAM4S\_GIANT100\_SERIAL', and 'SAM4S\_SERIAL'.

Queue Name	Description	Location	Make and Model	Status
ELLIX40	SAM4s ELLIX40	siva-HP-Compaq-6200-Pro-MT-PC	ELLIX40	Paused - "Unplugged or turned off"
Hewlett-Packard-hp-LaserJet-2420	Hewlett-Packard hp LaserJet 2420		HP LaserJet 2420 Postscript (recommended)	Idle
SAM4S_ELLIX30_SERIAL	SAM4S_ELLIX30_SERIAL		Local Raw Printer	Idle
SAM4S_ELLIX40_PARALLEL	SAM4S_ELLIX40_PARALLEL		ELLIX40	Idle
SAM4S_ELLIX40_SERIAL	SAM4S_ELLIX40_SERIAL		ELLIX40	Idle
SAM4S_ELLIX40_SERIAL_1	SAM4S_ELLIX40_SERIAL_1		ELLIX40	Idle
SAM4S_ELLIX40_SERIAL_2	SAM4S_ELLIX40_SERIAL_2		ELLIX40	Idle
SAM4S_ELLIX40_SERIAL_3	SAM4S_ELLIX40_SERIAL_3		ELLIX40	Idle
SAM4S_ELLIX45_SERIAL	SAM4S_ELLIX45_SERIAL		ELLIX45	Idle
SAM4S_GIANT100_SERIAL	SAM4S_GIANT100_SERIAL		GIANT 100	Idle
SAM4S_SERIAL	SAM4S_SERIAL	LABS	ELLIX40	Idle

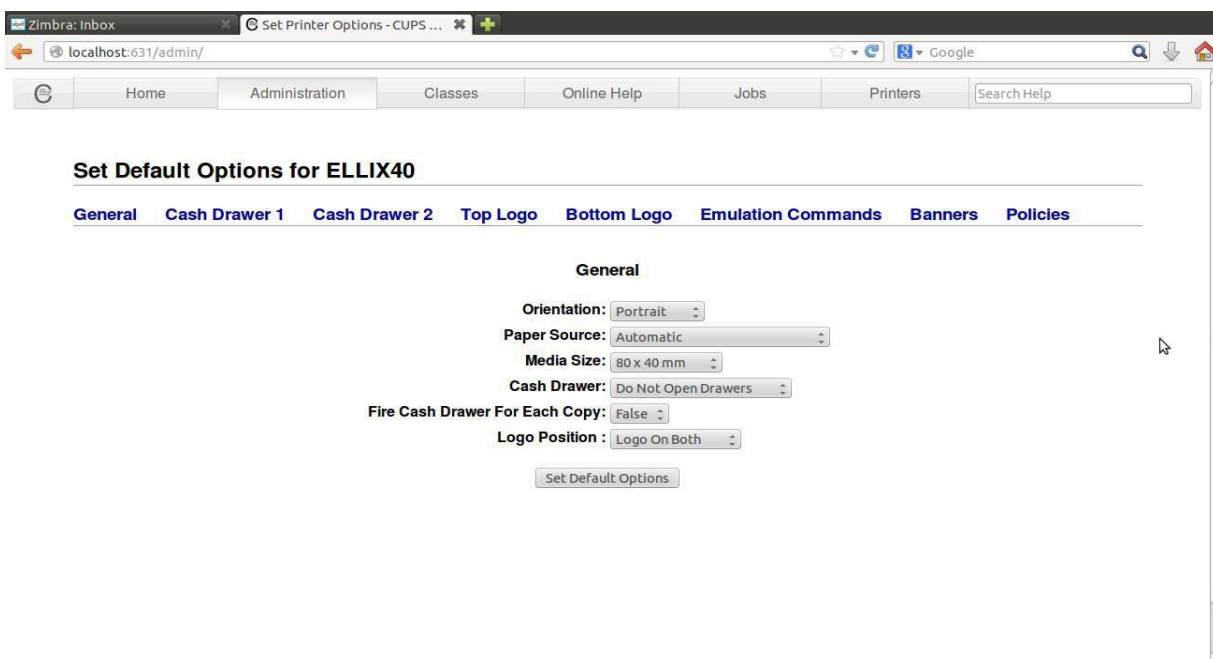
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Select the SAM4S Printer from the list, the following screen will appear.

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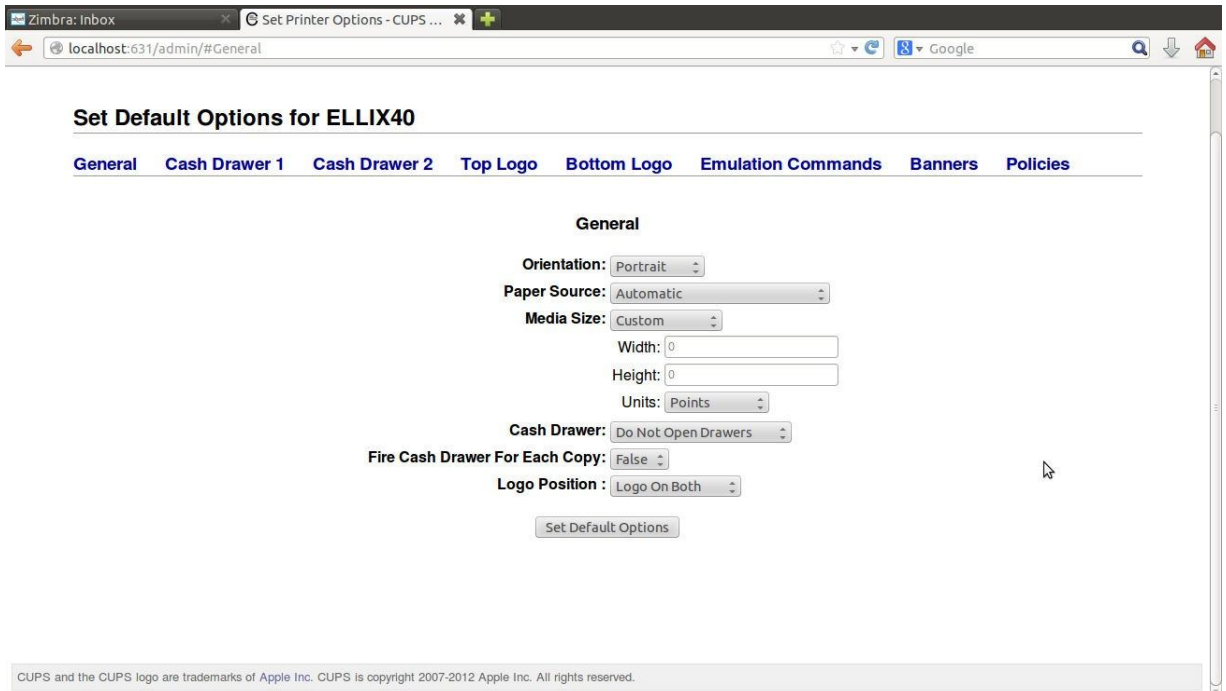


From this above screen, select the **Set Default Options** from **the Administration** drop box. The following screen will appear.



## 11.1 Setting Custom Paper Size

Select the **General tab**, then click the **Media size** drop box and select the **custom** option. The following screen will appear.



The screenshot shows the 'Set Default Options for ELLIX40' web page. The 'General' tab is active. The 'Media Size' dropdown menu is open, showing 'Custom' selected. Below it, the 'Width' and 'Height' input fields are empty, and the 'Units' dropdown is set to 'Points'. The 'Cash Drawer' dropdown is set to 'Do Not Open Drawers', 'Fire Cash Drawer For Each Copy' is 'False', and 'Logo Position' is 'Logo On Both'. A 'Set Default Options' button is located at the bottom of the form.

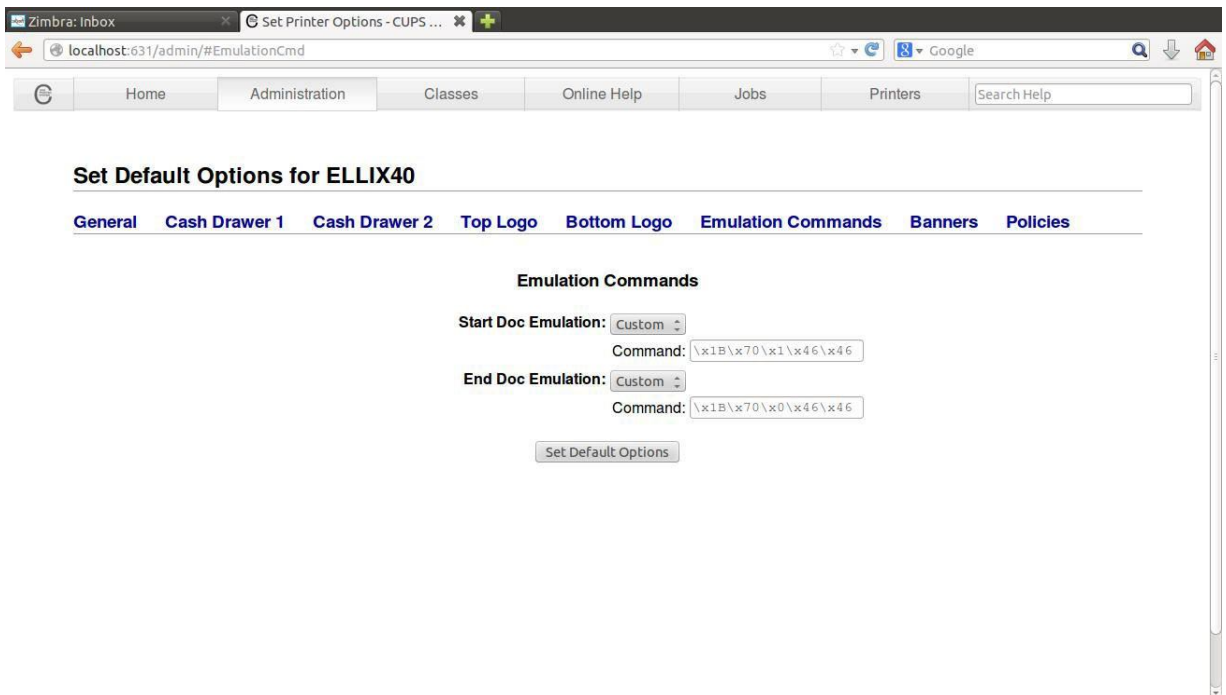
Enter the valid **paper size** corresponding to the units selected, then click **the Set Default options** button to save the custom paper size.

## 11.2 Emulation Commands

Emulation command options are only available from the web admin page (<http://localhost:631>).

Select the printer from the web admin page and click the **Emulation commands** tab. The following screen will appear.

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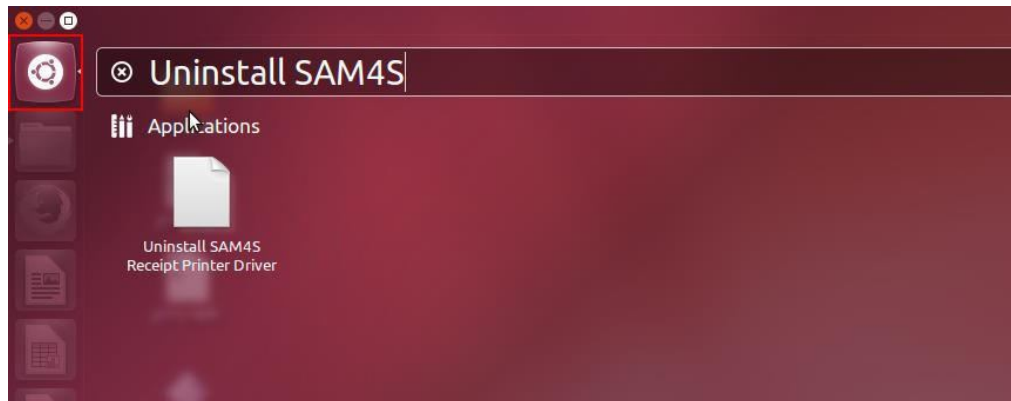


Enter the valid **printer commands**, and then click **the Set Default options** button to save **Start Doc and End Doc emulation** commands.

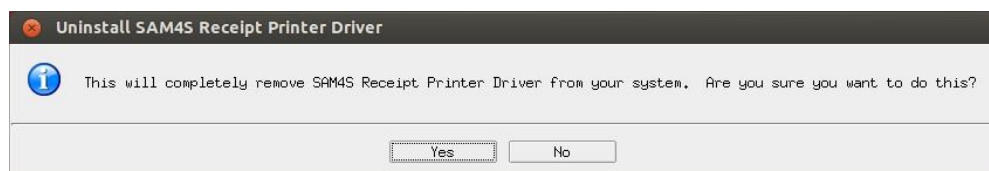
## 12. Uninstalling Printer

Following are the steps to uninstall SAM4S Receipt printer driver from the Linux system

Click on the **Ubuntu Wubi** **[Marked as red in the image below]** icon which is on the top right of the menu and type in **Uninstall SAM4S** and click **Uninstall SAM4S Receipt Printer Drive** Lik fro the dashboard.



Type the root password when root access windows shown to open the Uninstall wizard.



Uninstall confirmation message will be shown as above, click **Yes** to uninstall the driver or click **No** to terminate the uninstallation.

All installed **SAM4S Printer** will be removed from the system automatically.