Odoo Point of Sale installation guide
Vauxoo SA de CV

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Prerequisites

- Raspberry PI B/B+ with a 2A Power Adapter and microSD card
- A computer or tablet with an up-to-date web browser *
- A running SaaS or Odoo instance with the Point of Sale installed
- A local network set up with DHCP (this is the default setting)
- An RJ45 Ethernet Cable or a Linux compatible USB Wi-Fi adapter
- A compatible printer. You can choose one of those officially supported printers:
    - EPSON TM-T20 *(recommended)*
    - EPSON TM-T70
    - EPSON TM-T88
    - Star TSP650II
- A Honeywell Eclipse USB Barcode Scanner or another compatible scanner *
- An Epson compatible cash drawer *

* *optional choices*

Prepare your PosBox device

The PosBox is a small device that allows you to use the same industry standard USB POS peripherals on every device (PC, Mac, Linux, iOS, Android). Not only does it makes the setup easier, it actually lowers your costs. The PosBox is based on the Raspberry-Pi platform and is made of OpenSource Software and Hardware.

Image building process (step by step)

1. Download latest PosBox image from: http://nightly.openerp.com/trunk/posbox/
2. Unzip the downloaded image.
3. Make sure that the image have a .img extension. For example: posbox.img
4. Format the microSD card:
    a. For Windows: using diskpart
    b. For Mac: using disk utility
    c. For Linux: using gparted
5. Unmount microSD card. (type command: `df -h` to know device name)
    a. For Windows: skip this step
    b. For Mac, type command: `diskutil unmount /dev/device_name`
    c. For Linux, type command: `umount /dev/device_name`
6. Write the .img into microSD card:
    a. For Windows: use Win32DiskImager
    b. For Mac, in terminal type command ('r' before device_name is not a error):

        ```
        sudo dd bs=1m if=<your image file>.img of=/dev/rdevice_name
        ```

    c. For Linux, in terminal type command:

        ```
        sudo dd bs=4M if=<your image file>.img of=/dev/device_name
        ```

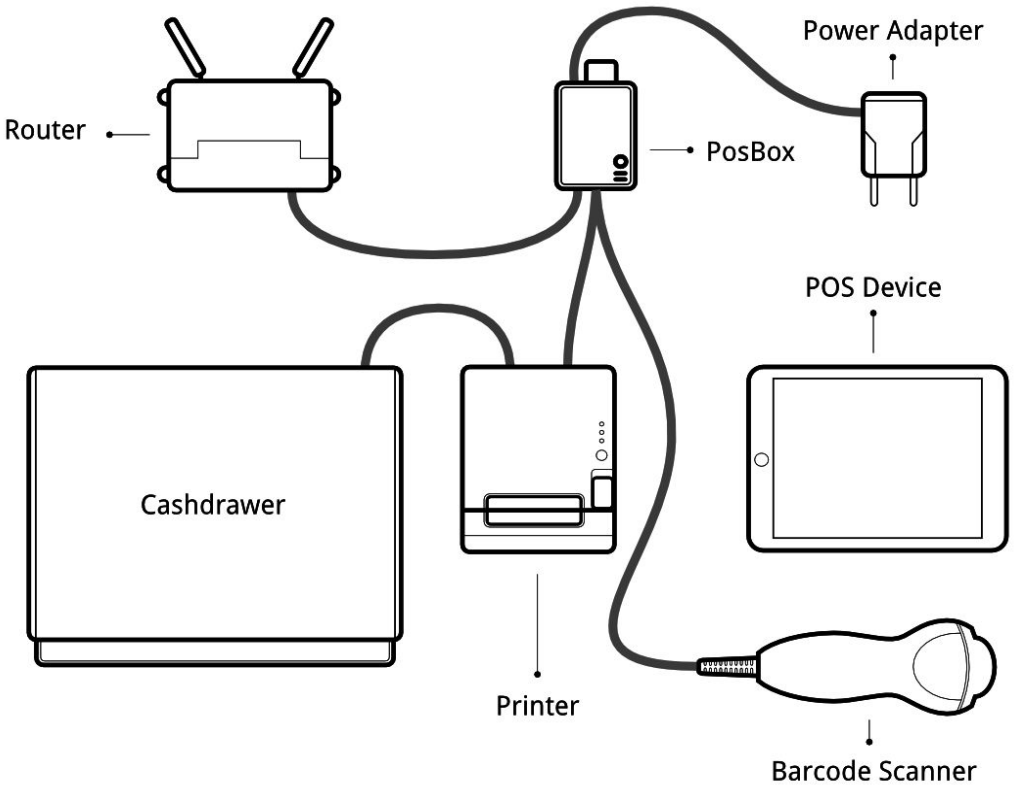
The last step (6) will take a while, after finish the resulting image has been ready to be tested and used. In Knowledge section, you can look some help about it

Hardware connection

Before power on Raspberry-PI, you must at least:

- Inserted the microSD card to the Raspberry-PI.
- Ensured that the printer is powered on, and connected to the Raspberry-PI.
- That Ethernet cable is connected to the Raspberry-PI.
- Ensured that your local network is working and using DHCP

You can see in the following scheme as the devices must be connected:



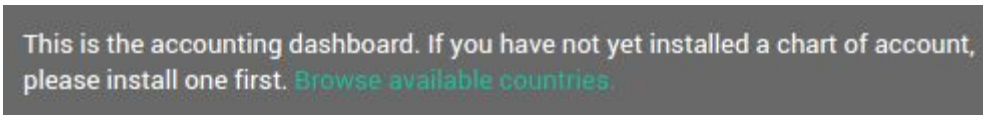
Once Raspberry-PI has booted (green led would flash on/off indicating activity), the printer would print the IP address of the Raspberry-PI (after +/- 1 minute)

Prepare Odoo instance

Install the Point of Sale Application

Start by installing the Point of Sale application. Go to Apps and install the Point of Sale application.

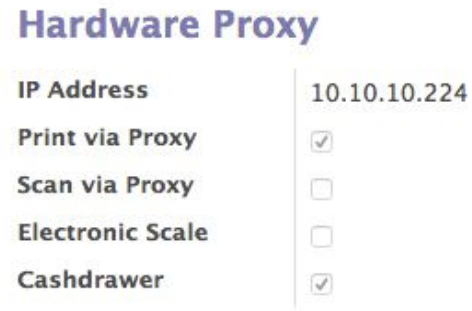
Do not forget to install an accounting chart of account. If it is not done, go to the Invoicing/Accounting application and click on Browse available countries:



Then choose the one you want to install. When it is done, you are all set to use the point of sale.

Configure Printer in Point of Sale Application

Go to Point of Sale Configuration and click on the 'Main' point of sale. Edit Hardware Proxy section to be able to use proxy, to set printer IP address, to use cashdrawer, etc



Knowledge

- Tutorials: Raspberry PI SD card setup using a Mac
- Flashing the SD Card using Windows
- Flashing the SD card using Mac OS X
- Flashing the SD Card using Linux (including on a Raspberry Pi!)
- POSBOX image installation on Raspberry PI B+
- Point of Sale Hardware Setup
- Getting started with Odoo Point of Sale

Troubleshoot

The POS cannot connect to the POSBox

- The easiest way to make sure the POSBox is properly set-up is to turn it on with the printer plugged in as it will print a receipt indicating any error if encountered or the POSBox's IP address in case of success. If no receipt is printed, check the following steps:
- Make sure the POSBox is powered on, indicated by a brightly lit red status LED.
- Make sure the POSBox is ready, this is indicated by a brightly lit green status LED just next to the red power status LED. The POSBox should be ready ~2 minutes after it is started.
- Make sure the POSBox is connected to the same network as your POS device. Both the device and the POSBox should be visible in the list of connected devices on your network router.
- Make sure that your LAN is set up with DHCP, and gives IP addresses in the range 192.168.0.X, 192.168.1.X, 10.0.0.X. If you cannot setup your LAN that way, you must manually set up your POSBox's IP address. See the relevant paragraph in the Setup chapter of this documentation.
- If you have specified the POSBox's IP address in the configuration, make sure it correspond to the printed on the POSBox's status receipt.

- Make sure that the POS is not loaded over HTTPS.
- A bug in Firefox's HTTP implementation prevents the autodiscovery from working reliably. When using Firefox you should manually set up the POSBox's IP address in the POS configuration.

The Barcode Scanner is not working

- The barcode scanner must be configured in US QWERTY and emit an Enter after each barcode. This is the default configuration of most barcode readers. Refer to the barcode reader documentation for more information.
- The POSBox needs a 2A power supply to work with some barcode scanners. If you are not using the provided power supply, make sure the one you use has enough power.
- Some barcode scanners will need more than 2A and will not work, or will work unreliably, even with the provided power supply. In those case you can plug the barcode scanner in a self-powered USB hub.
- Some poorly built barcode scanners do not advertise themselves as barcode scanners but as a usb keyboard instead, and will not be recognized by the POSBox.

The Barcode Scanner is not working reliably

- Make sure that no more than one device with 'Scan via Proxy'/'Barcode Scanner' enabled are connected to the POSBox at the same time.

Printing the receipt takes too much time

- A small delay before the first print is expected, as the POSBox will do some preprocessing to speed up the next printings. If you suffer delays afterwards it is most likely due to poor network connection between the POS and the POSBox.

Some characters are not correctly printed on the receipt

- The POSBox does not support all languages and characters. It currently supports Latin and Cyrillic based scripts, with basic Japanese support.

The printer is offline

- Make sure the printer is connected, powered, has enough paper and has its lid closed, and is not reporting an error. If the error persists, please contact support.

The cashdrawer does not open

- The cashdrawer should be connected to the printer and should be activated in the POS configuration.