**Print\_Server project documentation:**

**Hardware Requirements**

1. Raspberry Pi 1 Model B
2. SD Card (At least 64GB) and SD Card Reader
3. HP Smart Tank 580-590 Printer
4. Ethernet Cable
5. Power Supply

**Software Requirements**

1. ***Raspberry Pi OS (Legacy) with desktop:***

* Release date: December 5th 2023
* System: 32-bit
* Kernel version: 6.1
* Debian version: 11 (bullseye)
* Size: 894MB
* Boots into Console Autologin Text console, automatically logged in as 'admin' user.

1. ***Python 3.9.2:***

* pycups
* smbs
* zeroconf
* socket

1. Ssh
2. Vch

***Step 3:***

1. sudo raspi-config

* Auto-login as user admin to console upon boot.

**Print\_Server AP Setup**

In Putty start a new session:

1. **Update Pi**

We need to be sure that our Pi runs the latest software.

sudo apt-get update

sudo apt-get upgrade

sudo reboot

sudo hostname

sudo hostname -I

With this done, reboot the Pi.

sudo reboot

**2. Use Static IP**

We need to make a few system tweaks so that we can use the Pi as a “printserver” on the network. We need to set the DHCP client to use a static IP address; by default, the DHCP client might pick any available network address, which would make it tricky to know how to connect to the Raspberry Pi over the network.

We start by editing the DHCP config file:

sudo nano /etc/dhcpcd.conf

Scroll to the bottom of the file, to set a static IP address for a wired connection **(eth0)**:

sudo nano /etc/dhcpcd.conf

* **interface: Setting Ethernet port (eth0) as the printserver’s**network interface for setting the configuration for Static-IP.
* **static ip\_address:**This is the IP address of the printserver. (Leave the /24 at the end)
* **static routers:**This is the IP address of your router (gateway)
* **static domain\_name\_servers:**This is the IP address of your DNS (gateway).

interface eth0  
static ip\_address=192.168.0.120/24  
static routers=192.168.0.1  
static domain\_name\_servers=192.168.0.1

Save the file using **Ctrl + X**then press **Y** followed by **Enter.**

sudo reboot

**Check for connectivity issues**

ifconfig -a