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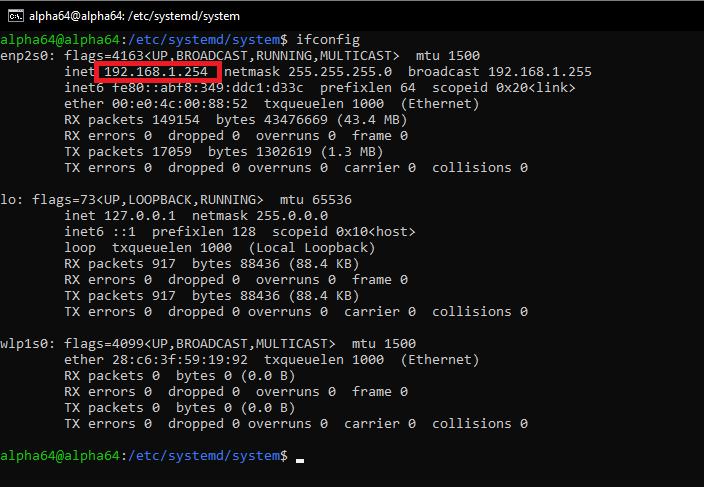
[*Some popular error:* 13](#_Toc107755004)

# **1. First thing:**

* sudo apt-get update
* sudo apt-get upgrade

# **2. Check static IP:**

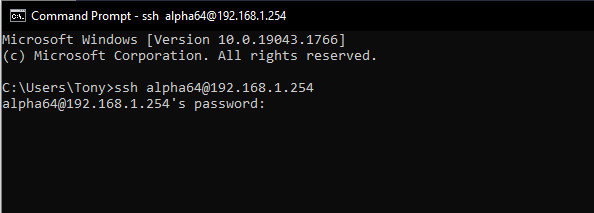
* sudo apt-get install net-tools
* ifconfig



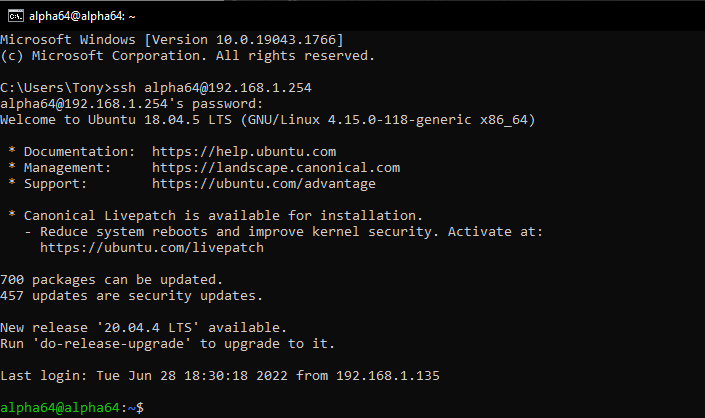
# **3. SSH to LattePanda**

From terminal ssh with command:

* ssh alpha64@192.168.1.254



*Enter password: alpha64*



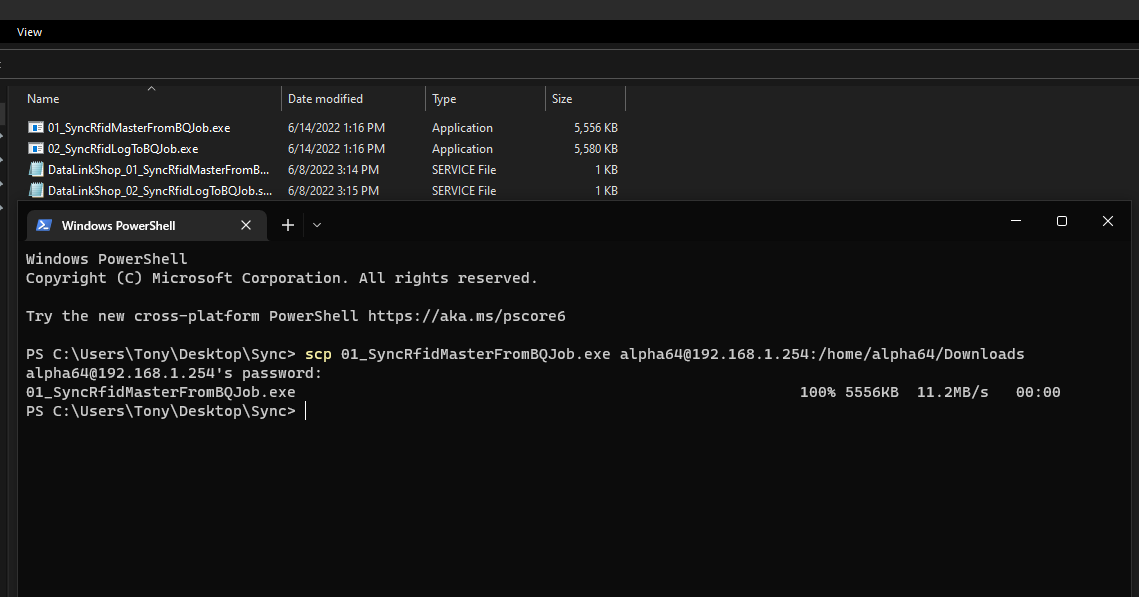
*Success screen*

# **4. Deploy Batch\_Sync**

#### Step 1: Transfer all files to LattePanda

Go to folder store files in PC to transferto LattePanda with Secure Copy

* scp 01\_SyncRfidMasterFromBQJob.exe alpha64@192.168.1.254:/home/alpha64/Downloads



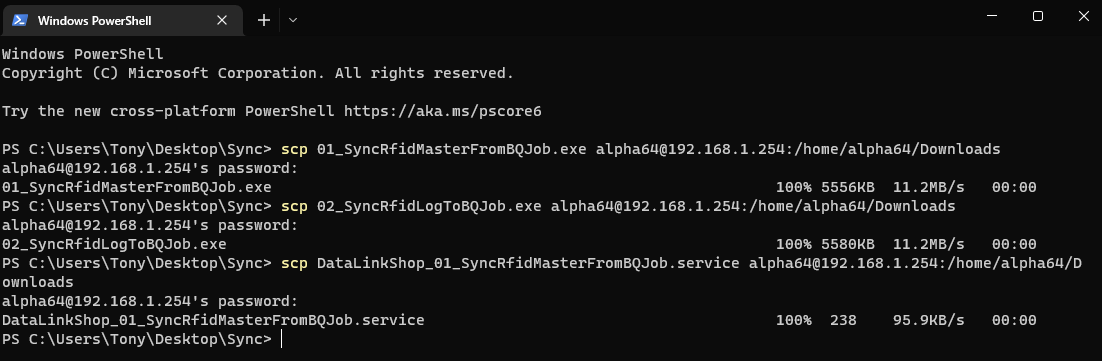
*Enter password: alpha64*

* scp 02\_SyncRfidLogToBQJob.exe alpha64@192.168.1.254:/home/alpha64/Downloads



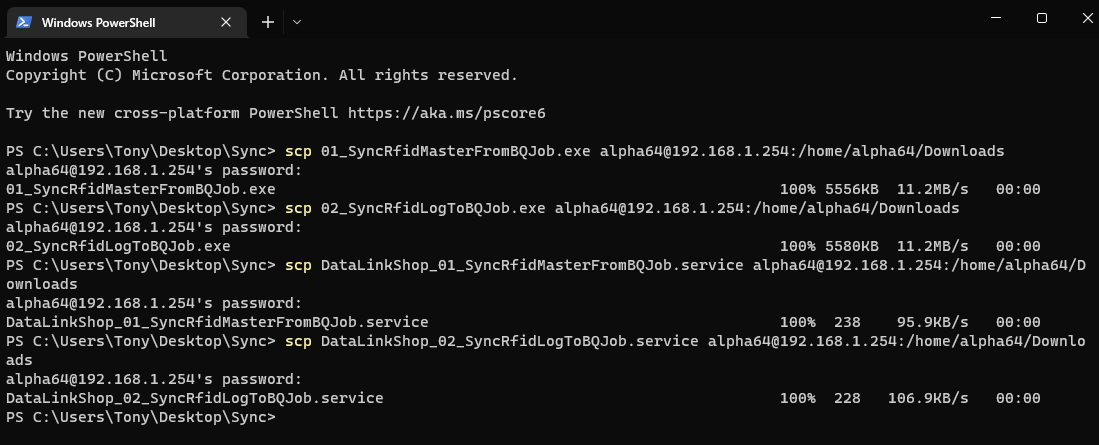
*Similar to next files*

* scp DataLinkShop\_01\_SyncRfidMasterFromBQJob.service alpha64@192.168.1.254:/home/alpha64/Downloads

**

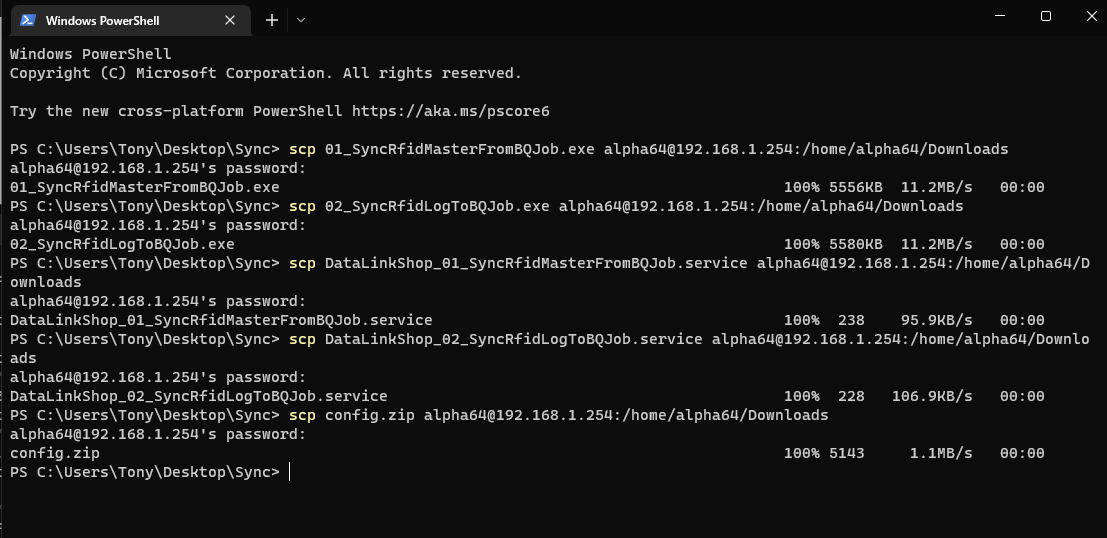
*Enter password: alpha64*

* scp DataLinkShop\_02\_SyncRfidLogToBQJob.service alpha64@192.168.1.254:/home/alpha64/Downloads



*Enter password: alpha64*

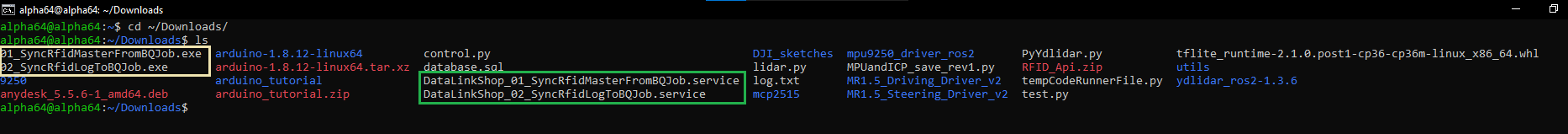
* scp config.zip alpha64@192.168.1.254:/home/alpha64/Downloads

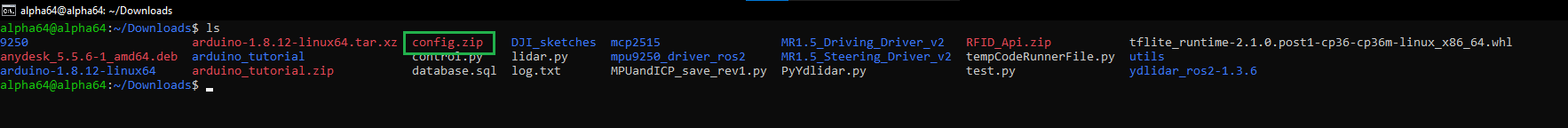


*Enter password: alpha64*

Go to folder Downloads in LattePanda to check with commands

* cd ~/Downloads/
* ls

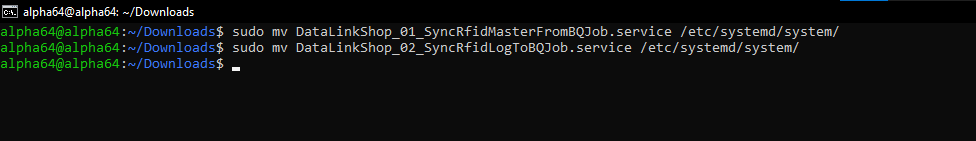




*If process is successful, 5 files will appear in folder Downloads*

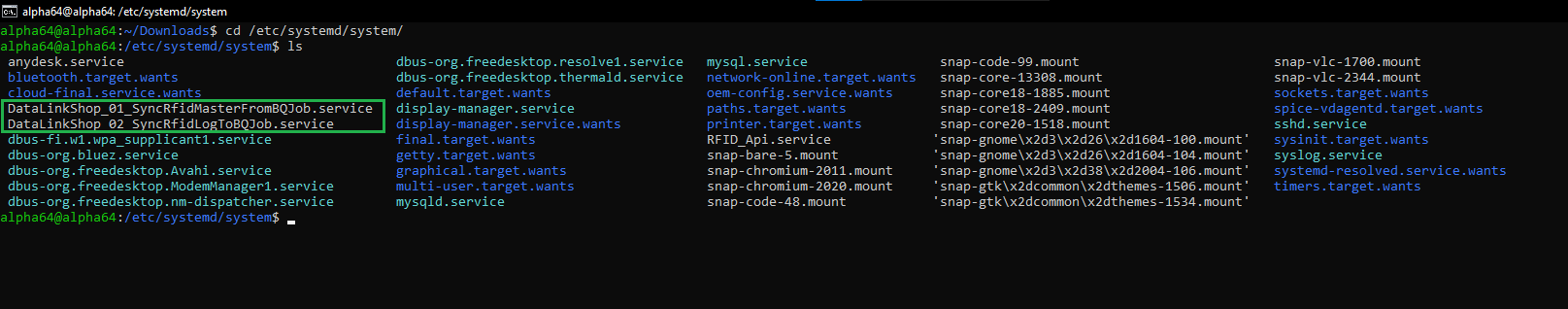
Move 2 services file to directory /etc/systemd/system/ with command:

* sudo mv RFID\_Api.service /etc/systemd/system/



Check with commands:

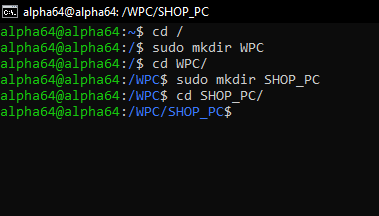
* cd /etc/systemd/system/
* ls



*If process is successful, 2 files will appear in this folder*

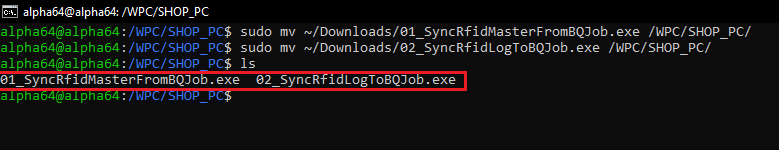
Create folder to store source:

* cd /
* sudo mkdir WPC
* cd WPC
* sudo mkdir SHOP\_PC



Continue move excute files to this folder and check:

* sudo mv ~/Downloads/01\_SyncRfidMasterFromBQJob.exe /WPC/SHOP\_PC/
* sudo mv ~/Downloads/02\_SyncRfidLogToBQJob.exe /WPC/SHOP\_PC/
* ls

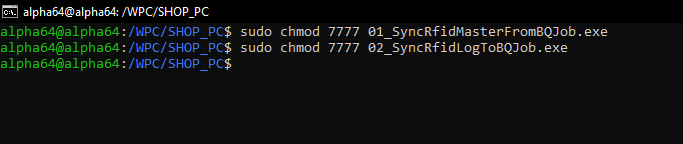


*Success screen*

#### Step 2: Grant permission and start services

Continue grant permission for excute files

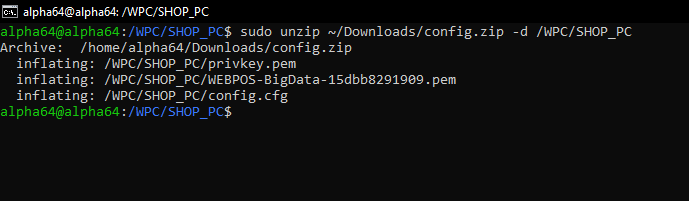
* sudo chmod 7777 01\_SyncRfidMasterFromBQJob.exe
* sudo chmod 7777 02\_SyncRfidLogToBQJob.exe



*Success screen*

Unzip config.zip to this folder:

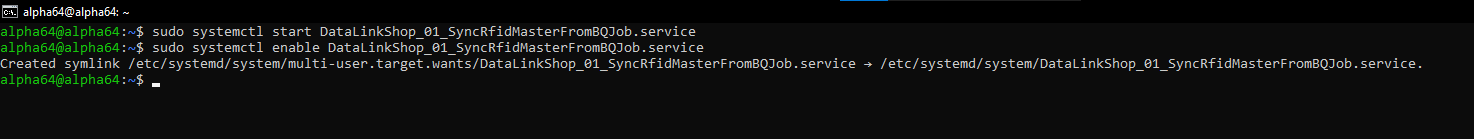
* sudo unzip ~/Downloads/config.zip -d /WPC/SHOP\_PC



*Success screen*

Start services with these commands:

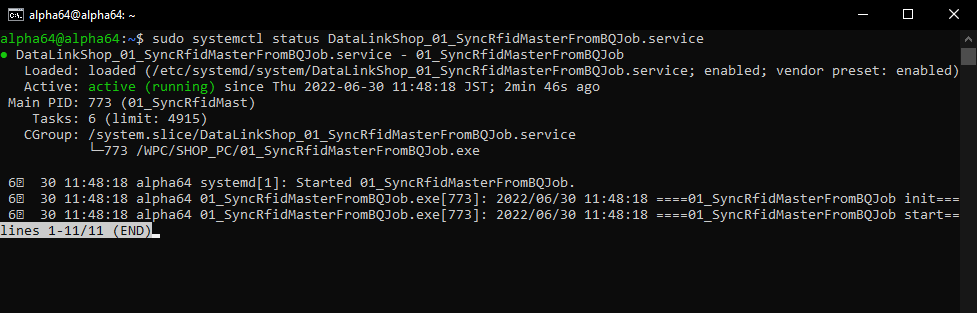
* sudo systemctl start DataLinkShop\_01\_SyncRfidMasterFromBQJob.service
* sudo systemctl enable DataLinkShop\_01\_SyncRfidMasterFromBQJob.service



*Success screen*

Check service 1 with command:

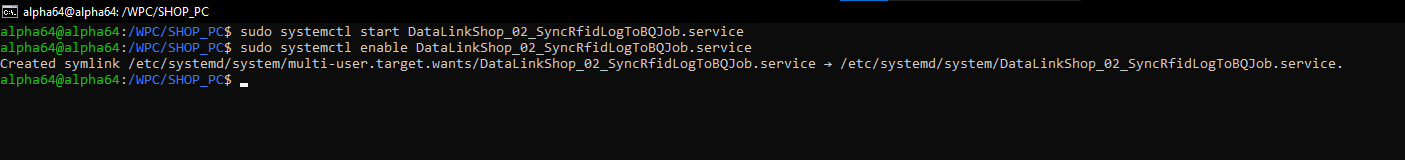
* sudo systemctl status DataLinkShop\_01\_SyncRfidMasterFromBQJob.service



*Success Screen of services 1*

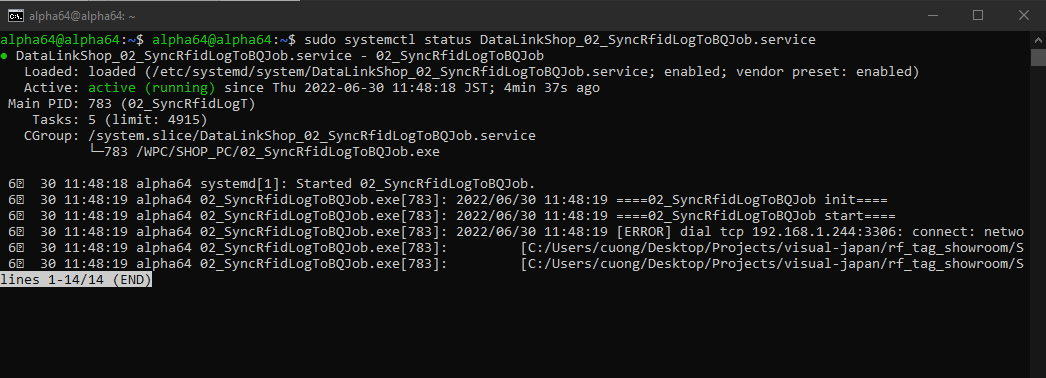
Continue start service 2:

* sudo systemctl start DataLinkShop\_02\_SyncRfidLogToBQJob.service
* sudo systemctl enable DataLinkShop\_02\_SyncRfidLogToBQJob.service

**

Check service 2 with command:

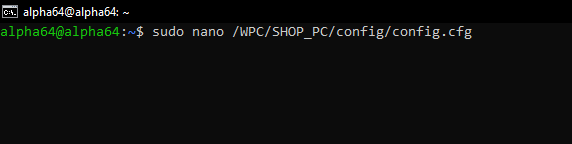
* sudo systemctl status DataLinkShop\_02\_SyncRfidLogToBQJob.service

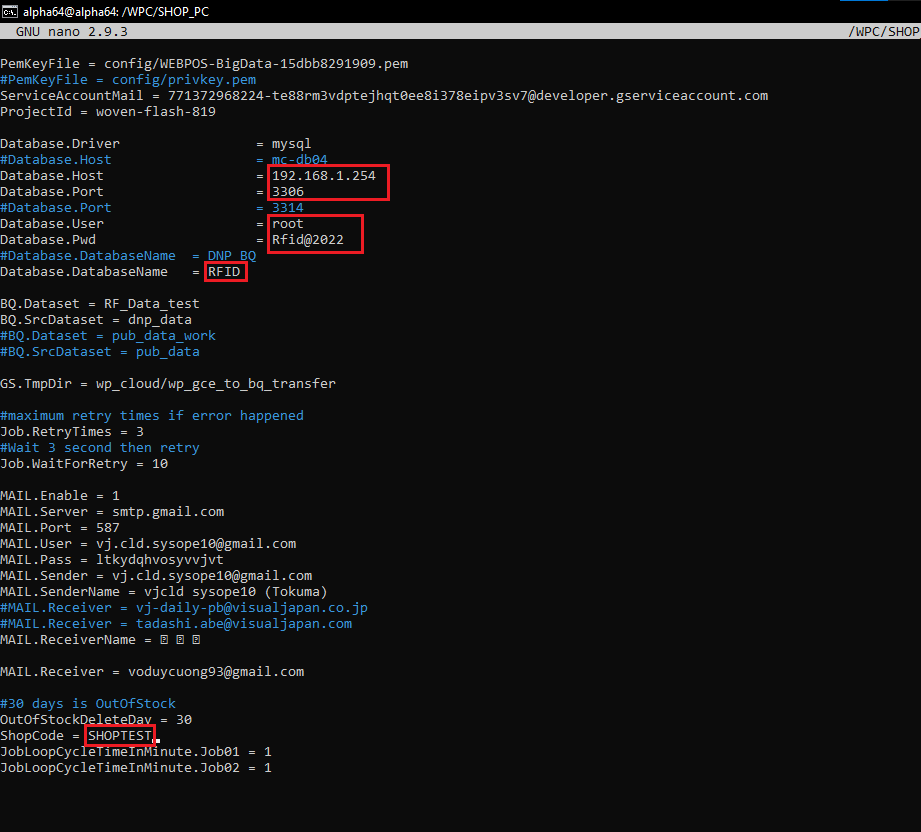


*Success Screen of services 2*

#### Step 3: Check config file of API

sudo nano /WPC/SHOP\_PC/config/config.cfg

****

****

***These information can be changed to accordance with environment:***

+ Database.Host: ip - [static ip of this device](#_2._Check_static)

+ Database.Port: port of database (default port is 3306)

+ Database.User: username of database (MariaDB)

+ Database.Pwd: password of database (MariaDB)

+ Database.DatabaseName: name of database created and imported

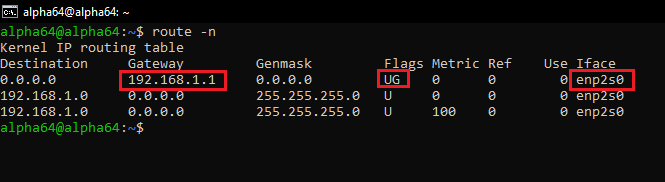
+ ShopCode: name of shop which is used to insert to drfid.taglog table

# **5. Optional and Error:**

#### *Setup new static IP:*

Check network using:

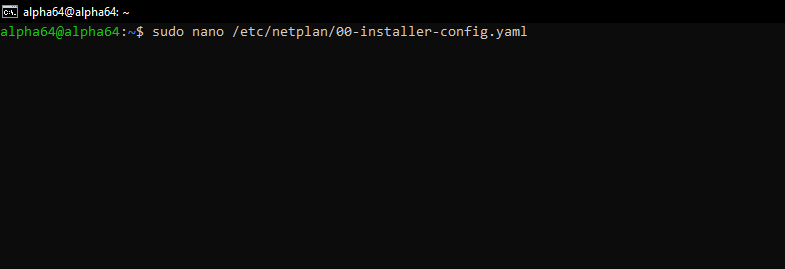
* route -n



*Note information of row have Flags “UG”*

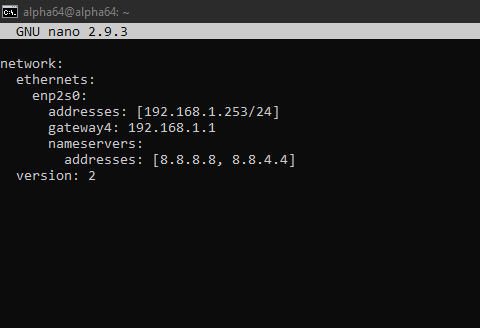
Edit network file with this command:

* sudo nano /etc/netplan/00-installer-config.yaml



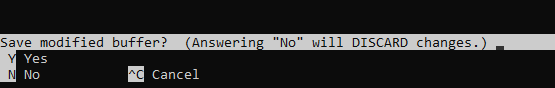
Copy this text into it, colored text can be customized to suit the requirements, information in red text need to be exactly with above image created by ***“route -n”*** command:

|  |
| --- |
| network:  ethernets:  enp2s0:  addresses: [192.168.1.253/24]  gateway4: 192.168.1.1  nameservers:  addresses: [8.8.8.8, 8.8.4.4]  version: 2 |

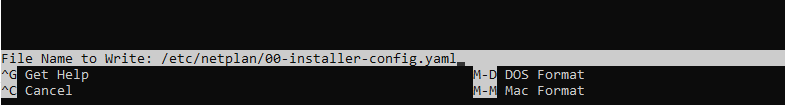


*Paste with right mouse*

Press Ctrl + X to save



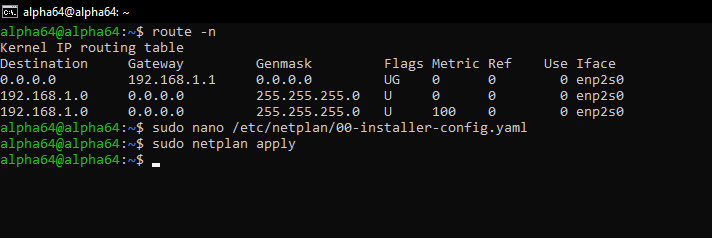
*Press Y to accept*



*Press enter to finish*

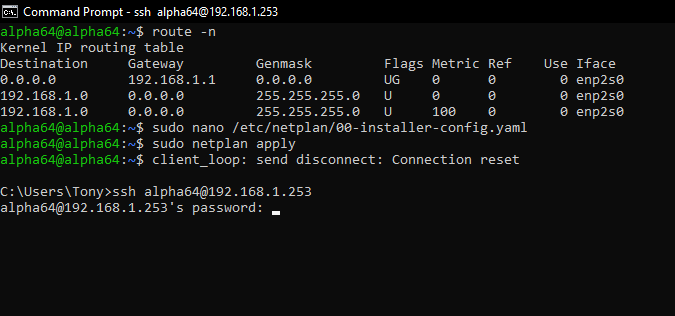
Continue to apply change with this command:

* sudo netplan apply

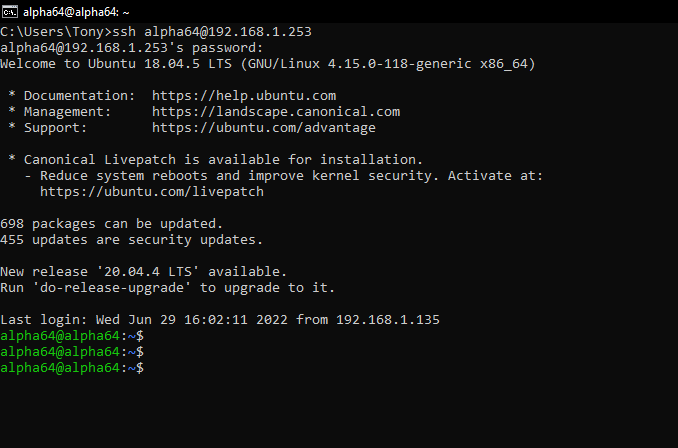


*Finish setup new IP*

Now IP changes, system will kick ssh out, try ssh again with new IP assigned. In this demo, IP is 192.168.1.253



*Enter password: alpha64*

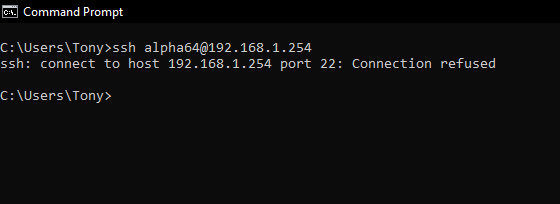
**

*Success screen*

#### *Some popular error:*

***ssh: connect to host 192.168.1.254 port 22: Connection refused***

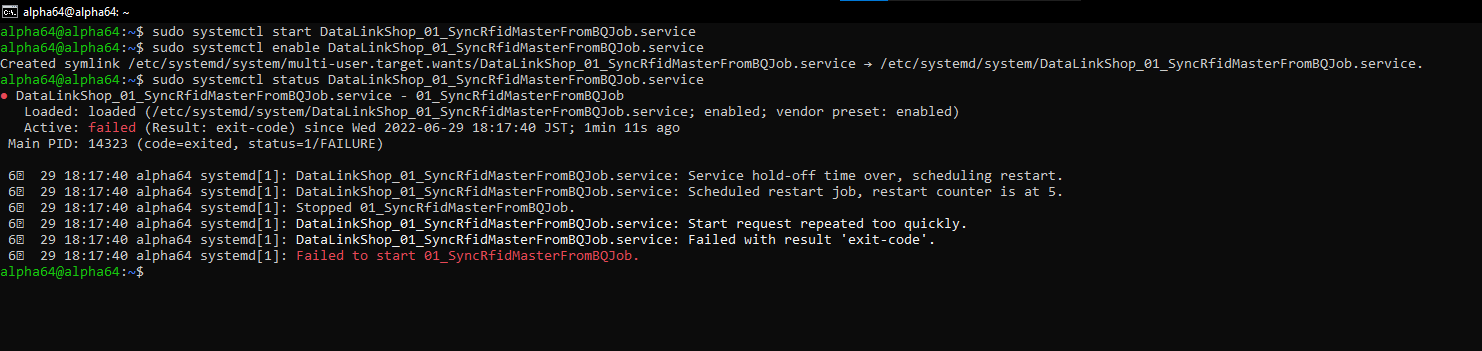
***Failed to load ssh, unplug the power and plugin again***



*Cannot connect from external devices*

***Services fail to start***

***Something when wrong with running files, please remove files and transfer again***

******

***Command to remove files***

* sudo rm -rf 01\_SyncRfidMasterFromBQJob.exe
* sudo rm -rf 02\_SyncRfidLogToBQJob.exe

***After this process, please start again from*** [***STEP 1***](#_Step_1:_Transfer) ***again***