

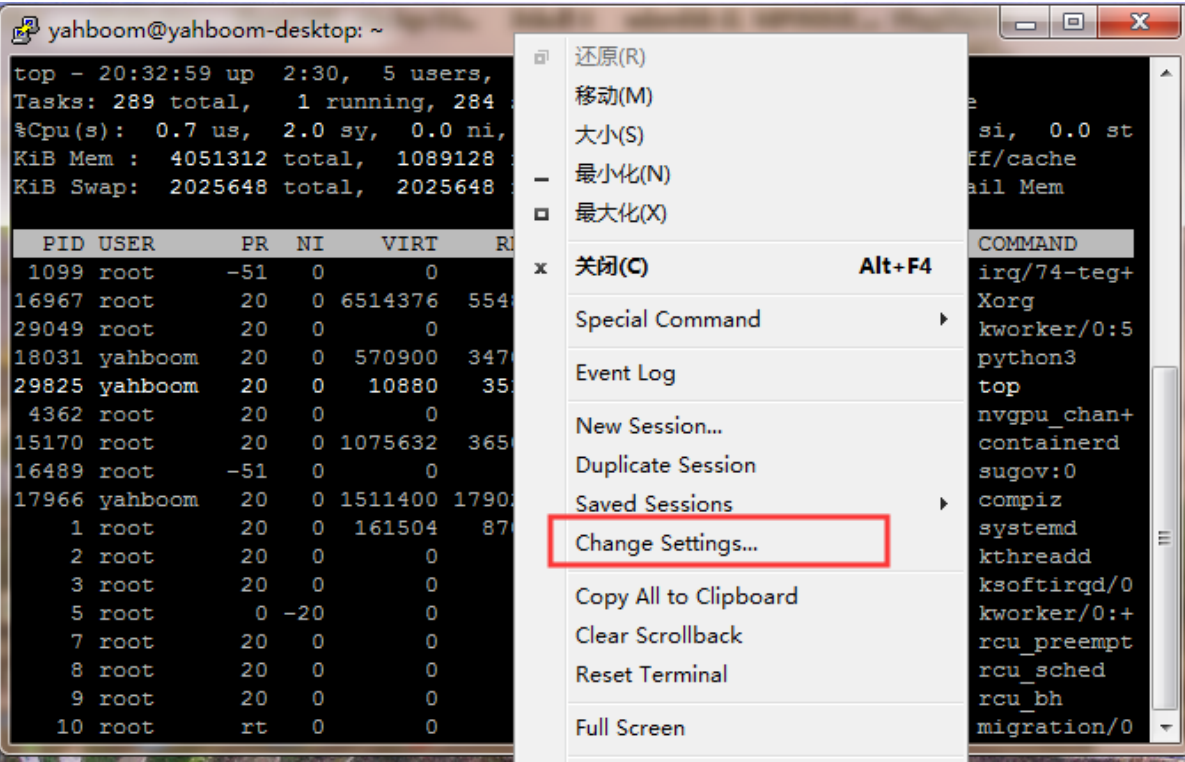
Network Configuration

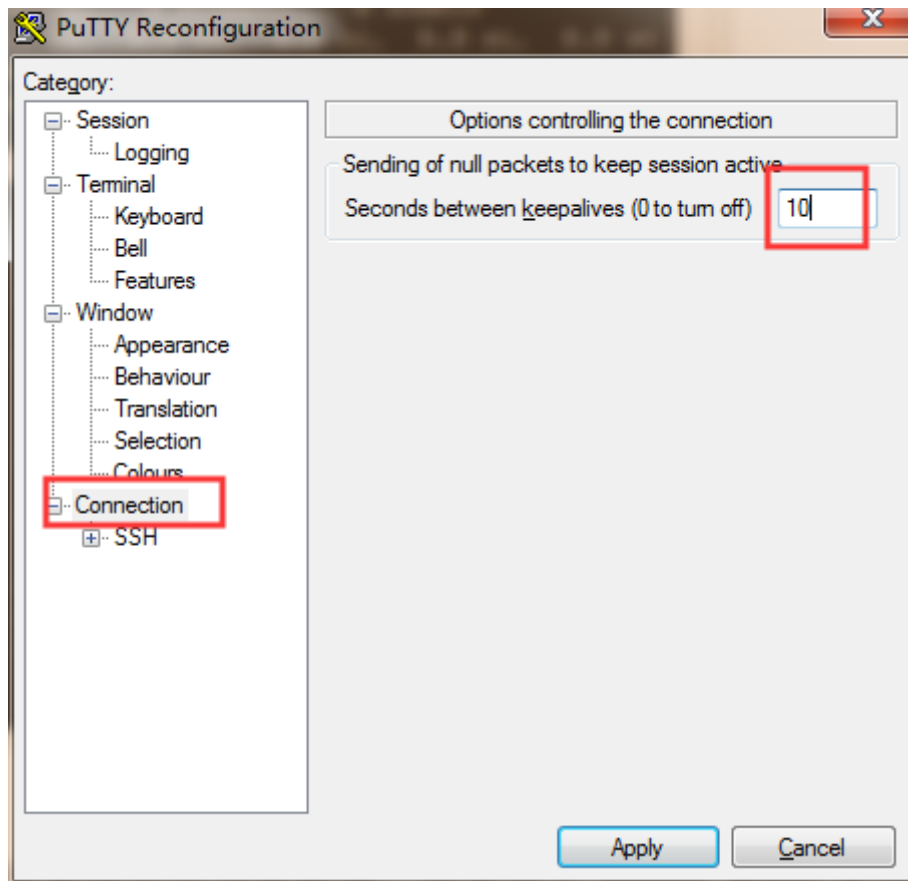
1.Remote login.

Choose tools such as PuTTY, SSH, and Xshell to remotely log in according to your preferences. The following is an example of the PuTTY tool. Note: If you find that the computer cannot be remotely accessed, you can try ping each other and view the IP address command on nano: ifconfig.

View local IP address cmd command under Windows: ipconfig. After knowing the IP address of the other party, ping 192.168.1.xx will modify the IP address based on the actual command

If you find that putty often drops automatically, you can try the following methods:





A. Enter putty and select Connection on the left side

B. Sending of null packets to keep session active on the right side Set it to 10

(meaning to send an empty packet every ten seconds to maintain connectivity)

2.About updating sources.

Generally speaking, after installing the system, the source should be updated. However, since Jetson Nano B01 uses the aarch64 architecture Ubuntu 18.04.2 LTS system, which is different from the AMD architecture Ubuntu system, and I have not found a perfect domestic source, I do not recommend that you switch sources

There is no source change here, so it is still updated using the default source of Jetson Nano B01. The update process is very long, everyone can execute the command and do other things. The following two actions are recommended to be carried out before starting an AI project, otherwise installing some libraries may result in missing installation addresses and frequent errors in the future.

sudo apt-get update

```
nano@nano-desktop: ~  
]  
获取:20 http://ports.ubuntu.com/ubuntu-ports bionic-security InRelease [88.7 kB]  
获取:21 http://ports.ubuntu.com/ubuntu-ports bionic/main arm64 Packages [975 kB]  
获取:22 http://ports.ubuntu.com/ubuntu-ports bionic/main Translation-en [516 kB]  
获取:23 http://ports.ubuntu.com/ubuntu-ports bionic/main Translation-zh_CN [67.7  
kB]  
获取:24 http://ports.ubuntu.com/ubuntu-ports bionic/main arm64 DEP-11 Metadata [472 kB]  
获取:25 http://ports.ubuntu.com/ubuntu-ports bionic/main DEP-11 48x48 Icons [118  
kB]  
获取:26 http://ports.ubuntu.com/ubuntu-ports bionic/main DEP-11 64x64 Icons [245  
kB]  
获取:27 http://ports.ubuntu.com/ubuntu-ports bionic/restricted arm64 Packages [6  
64 B]  
获取:28 http://ports.ubuntu.com/ubuntu-ports bionic/restricted Translation-en [3  
,584 B]  
获取:29 http://ports.ubuntu.com/ubuntu-ports bionic/restricted Translation-zh_CN  
[1,188 B]  
获取:30 http://ports.ubuntu.com/ubuntu-ports bionic/universe arm64 Packages [8,3  
16 kB]  
获取:31 http://ports.ubuntu.com/ubuntu-ports bionic/universe Translation-zh_CN [174 kB]  
获取:32 http://ports.ubuntu.com/ubuntu-ports bionic/universe Translation-en [4,9  
41 kB]  
获取:33 http://ports.ubuntu.com/ubuntu-ports bionic/universe arm64 DEP-11 Metada  
ta [3,243 kB]  
获取:34 http://ports.ubuntu.com/ubuntu-ports bionic/universe DEP-11 48x48 Icons  
[2,151 kB]  
获取:35 http://ports.ubuntu.com/ubuntu-ports bionic/universe DEP-11 64x64 Icons  
[8,420 kB]  
80% [35 icons-64x64 6,698 kB/8,420 kB 80%] 127 kB/s 50秒
```

```
nano@nano-desktop: ~  
获取:67 http://ports.ubuntu.com/ubuntu-ports bionic-security/main arm64 DEP-11 M  
etadata [14.9 kB]  
获取:68 http://ports.ubuntu.com/ubuntu-ports bionic-security/main DEP-11 48x48 I  
cons [10.4 kB]  
获取:69 http://ports.ubuntu.com/ubuntu-ports bionic-security/main DEP-11 64x64 I  
cons [20.9 kB]  
获取:70 http://ports.ubuntu.com/ubuntu-ports bionic-security/restricted arm64 Pa  
ckages [668 B]  
获取:71 http://ports.ubuntu.com/ubuntu-ports bionic-security/restricted Translat  
ion-en [2,192 B]  
获取:72 http://ports.ubuntu.com/ubuntu-ports bionic-security/universe arm64 Pack  
ages [245 kB]  
获取:73 http://ports.ubuntu.com/ubuntu-ports bionic-security/universe Translatio  
n-en [139 kB]  
获取:74 http://ports.ubuntu.com/ubuntu-ports bionic-security/universe arm64 DEP-  
11 Metadata [35.8 kB]  
获取:75 http://ports.ubuntu.com/ubuntu-ports bionic-security/universe DEP-11 48x  
48 Icons [16.4 kB]  
获取:76 http://ports.ubuntu.com/ubuntu-ports bionic-security/universe DEP-11 64x  
64 Icons [97.3 kB]  
获取:77 http://ports.ubuntu.com/ubuntu-ports bionic-security/multiverse arm64 Pa  
ckages [1,696 B]  
获取:78 http://ports.ubuntu.com/ubuntu-ports bionic-security/multiverse Translat  
ion-en [2,060 B]  
获取:79 http://ports.ubuntu.com/ubuntu-ports bionic-security/multiverse DEP-11 4  
8x48 Icons [29 B]  
获取:80 http://ports.ubuntu.com/ubuntu-ports bionic-security/multiverse DEP-11 6  
4x64 Icons [2,638 B]  
已下载 34.8 MB, 耗时 5分 49秒 (99.5 kB/s)  
正在读取软件包列表... 完成  
nano@nano-desktop:~$
```

sudo apt-get full-upgrade

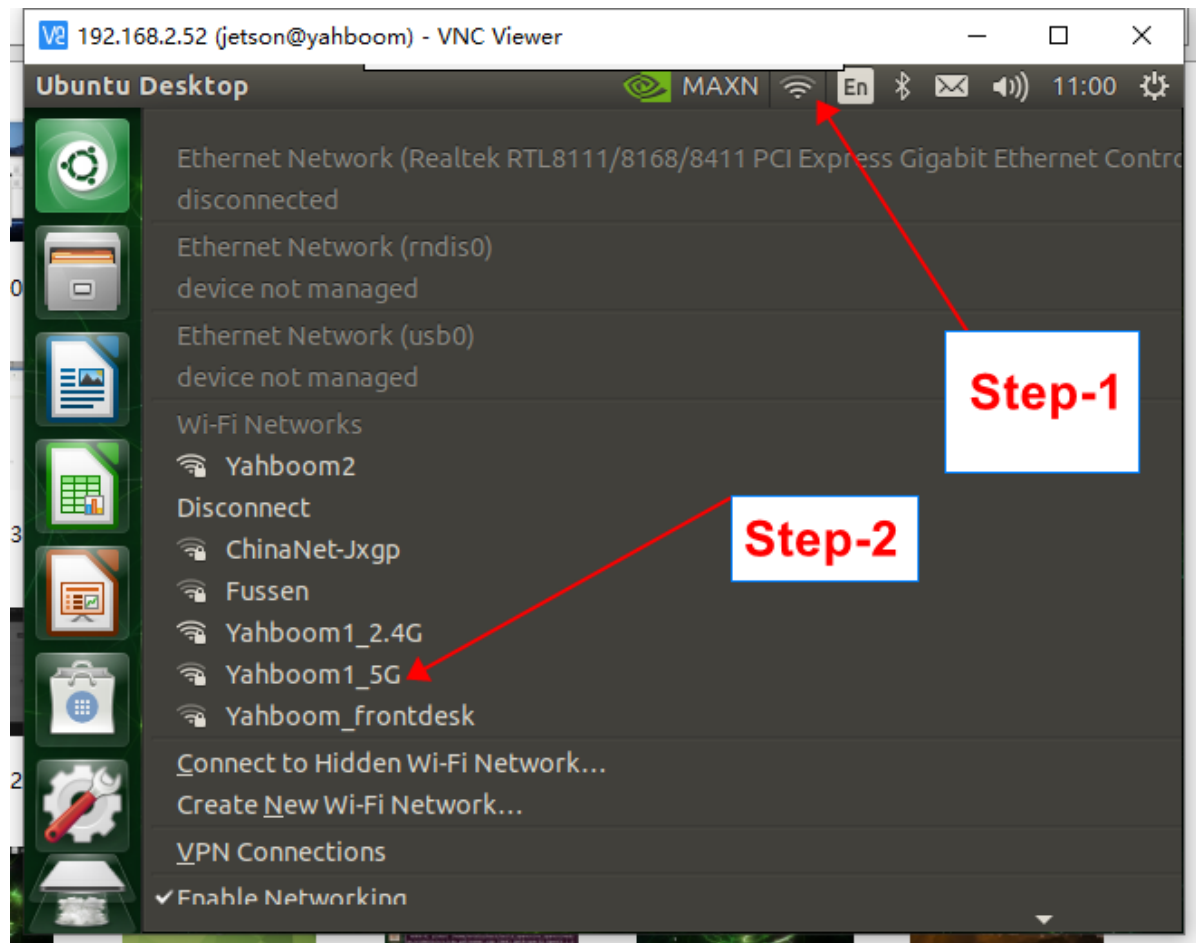
```
nano@nano-desktop: ~  
libreoffice-style-tango libreoffice-writer libseccomp2 libsmbclient  
libsnapd-glib1 libssl1.0.0 libstdc++-7-dev libstdc++6 libswresample2  
libswscale4 libsystemd0 libtiff5 libtsan0 libubsan0 libudev1 libunistring2  
libunity-core-6.0-9 libupower-glib3 libwavpack1 libwayland-egl1-mesa  
libwbclient0 libwebkit2gtk-4.0-37 libx11-6 libx11-data libx11-dev libx11-doc  
libx11-xcb-dev libx11-xcb1 libxcb-composite0 libxcb-damage0 libxcb-dri2-0  
libxcb-dri3-0-dev libxcb-dri3-0 libxcb-dri3-dev libxcb-glx0 libxcb-glx0-dev  
libxcb-present-dev libxcb-present0 libxcb-randr0 libxcb-randr0-dev  
libxcb-render0 libxcb-render0-dev libxcb-res0 libxcb-shape0  
libxcb-shape0-dev libxcb-shm0 libxcb-sync-dev libxcb-sync1 libxcb-xfixes0  
libxcb-xfixes0-dev libxcb-xinerama0 libxcb-xkb1 libxcb-xv0 libxcb1  
libxcb1-dev libxslt1.1 linux-firmware linux-libc-dev login mesa-common-dev  
mesa-va-drivers mesa-va-drivers mutter mutter-common nautilus  
nautilus-data network-manager network-manager-config-connectivity-ubuntu  
nfs-common ntfs-3g openssh-client openssh-server openssh-sftp-server  
packagekit packagekit-tools parted passwd plymouth plymouth-label  
plymouth-theme-ubuntu-logo policykit-1 poppler-utils pulseaudio  
pulseaudio-utils python-gi python3-apport python3-distro-info  
python3-distupgrade python3-gi python3-gi-cairo python3-httpplib2  
python3-problem-report python3-uno python3-update-manager  
qt5-gtk-platformtheme resolvconf samba-libs snapd systemd systemd-sysv  
thunderbird thunderbird-gnome-support tzdata ubuntu-desktop  
ubuntu-drivers-common ubuntu-release-upgrader-core  
ubuntu-release-upgrader-gtk ubuntu-software udev unattended-upgrades unity  
unity-schemas unity-services uno-libs3 update-manager update-manager-core  
upower ure wget wpasupplicant  
升级了 333 个软件包, 新安装了 2 个软件包, 要卸载 0 个软件包, 有 0 个软件包未被升  
级。  
需要下载 426 MB 的归档。  
解压后会消耗 168 MB 的额外空间。  
您希望继续执行吗? [Y/n]
```

Enter Y during the process to confirm the update. The second process may take about 2 hours depending on the network situation. Please be patient and wait. After completion, as shown in the following figure

```
nano@nano-desktop: ~  
正在设置 python3-distupgrade (1:18.04.32) ...  
正在设置 libreoffice-common (1:6.0.7-0ubuntu0.18.04.5) ...  
正在设置 libreoffice-core (1:6.0.7-0ubuntu0.18.04.5) ...  
正在设置 ubuntu-release-upgrader-core (1:18.04.32) ...  
正在设置 python3-uno (1:6.0.7-0ubuntu0.18.04.5) ...  
正在设置 libreoffice-gtk3 (1:6.0.7-0ubuntu0.18.04.5) ...  
正在设置 libreoffice-style-breeze (1:6.0.7-0ubuntu0.18.04.5) ...  
正在设置 libreoffice-gnome (1:6.0.7-0ubuntu0.18.04.5) ...  
正在设置 libreoffice-pdfimport (1:6.0.7-0ubuntu0.18.04.5) ...  
正在设置 libreoffice-draw (1:6.0.7-0ubuntu0.18.04.5) ...  
正在设置 libreoffice-avmedia-backend-gstreamer (1:6.0.7-0ubuntu0.18.04.5) ...  
正在设置 ubuntu-release-upgrader-gtk (1:18.04.32) ...  
正在设置 update-manager-core (1:18.04.11.10) ...  
正在设置 libreoffice-impress (1:6.0.7-0ubuntu0.18.04.5) ...  
正在设置 libreoffice-math (1:6.0.7-0ubuntu0.18.04.5) ...  
正在设置 libreoffice-base-core (1:6.0.7-0ubuntu0.18.04.5) ...  
正在设置 libreoffice-calc (1:6.0.7-0ubuntu0.18.04.5) ...  
正在设置 update-manager (1:18.04.11.10) ...  
正在设置 libreoffice-ogltrans (1:6.0.7-0ubuntu0.18.04.5) ...  
正在设置 libreoffice-writer (1:6.0.7-0ubuntu0.18.04.5) ...  
正在设置 ubuntu-desktop (1.417.1) ...  
正在处理用于 libc-bin (2.27-3ubuntu1) 的触发器 ...  
正在处理用于 resolvconf (1.79ubuntu10.18.04.3) 的触发器 ...  
正在处理用于 initramfs-tools (0.130ubuntu3.7) 的触发器 ...  
update-initramfs: Generating /boot/initrd.img-4.9.140-tegra  
Warning: couldn't identify filesystem type for fsck hook, ignoring.  
/sbin/ldconfig.real: Warning: ignoring configuration file that cannot be opened:  
/etc/ld.so.conf.d/aarch64-linux-gnu_EGL.conf: No such file or directory  
/sbin/ldconfig.real: Warning: ignoring configuration file that cannot be opened:  
/etc/ld.so.conf.d/aarch64-linux-gnu_GL.conf: No such file or directory  
nano@nano-desktop:~$
```

The network configuration is now complete

3.Jetson Nano B01 connects to WiFi



The first step is to click on the network symbol above. The second step is to select the network we need to connect to, and enter the password. I have already connected to the network of yahboom2 Obtain the IP address of the motherboard (when connected to the network)

```
ifconfig
```



```
jetson@yahboom: ~  
ns 0  
usb0: flags=4099<UP,BROADCAST,MULTICAST> mtu 1500  
ether 4a:4c:3a:fd:ea:eb txqueuelen 1000 (Ethernet)  
RX packets 0 bytes 0 (0.0 B)  
RX errors 0 dropped 0 overruns 0 frame 0  
TX packets 0 bytes 0 (0.0 B)  
TX errors 0 dropped 0 overruns 0 carrier 0 collisio  
ns 0 Jetson  
Developer  
wlan0: flags=4163<UP,BROADCAST,RUNNING,MULTICAST> mtu 1500  
inet 192.168.2.52 netmask 255.255.255.0 broadcast 19  
2.168.2.255  
inet6 fe80::d607:bdd5:487e:9a41 prefixlen 64 scopeid  
0x20<link>  
ether 1c:1b:b5:31:3a:4e txqueuelen 1000 (Ethernet)  
RX packets 7745 bytes 679932 (679.9 KB)  
RX errors 0 dropped 0 overruns 0 frame 0  
TX packets 14931 bytes 22333023 (22.3 MB)  
TX errors 0 dropped 0 overruns 0 carrier 0 collisio  
ns 0  
jetson@yahboom:~$
```

Because I am using WiFi, looking at the IP address in the wlan0 line, I can see that my IP address here is 192.168.2.52.

4.Jetson Nano B01 connecting network cable

If we want to know the IP address without a display screen, we can use the method of directly plugging in the network cable, and then the computer and a router will also be connected to the network. Download an IP scanning software to perform IP scanning, which is Advanced IP Scanner.

Scanned IP

| 192.168.2.1 - 192.168.2.99 | | | | | |
|----------------------------|---------------------------|--------------|-------------------|----|--|
| 结果 收藏夹 | | | | | |
| 状态 | 名称 | IP | MAC 地址 | 备注 | |
| | yishuifengxingdeMacBoo... | 192.168.2.73 | 84:38:35:56:13:2E | | |
| | yishuifengxingdeMacBoo... | 192.168.2.64 | 84:38:35:56:13:2E | | |
| | yahboomrde | 192.168.2.51 | D0:94:66:74:E6:64 | | |
| | yahboom-4 | 192.168.2.52 | 00:04:4B:E7:0C:07 | | |
| | yahboom-4 | 192.168.2.88 | 00:04:4B:E7:0C:07 | | |
| | yahboom-3 | 192.168.2.80 | 40:1C:83:42:2A:5C | | |
| | yahboom-2 | 192.168.2.70 | E4:5F:01:0E:23:C6 | | |
| | yahboom | 192.168.2.82 | 2C:EA:7F:E7:A2:00 | | |
| | ubuntu-2 | 192.168.2.67 | 08:FB:EA:79:9E:16 | | |
| | ubuntu-14 | 192.168.2.85 | 08:E9:F6:AE:F8:20 | | |
| | ubuntu | 192.168.2.63 | CE:C3:CF:B1:28:80 | | |
| | rr-pc | 192.168.2.75 | CE:91:65:A1:C0:EB | | |
| | chenshuaiqideiPhone | 192.168.2.79 | 3E:63:57:3F:F9:1B | | |
| | YAB101 | 192.168.2.93 | 18:C0:4D:A5:6B:09 | | |
| | XWTP7GF4NG421H | 192.168.2.68 | 9C:B6:D0:01:35:05 | | |
| | Transbot | 192.168.2.97 | 64:79:F0:90:52:AE | | |
| | Transbot | 192.168.2.96 | 1C:1B:B5:13:56:FA | | |
| | Transbot | 192.168.2.50 | 00:13:EF:F3:5C:18 | | |
| | DESKTOP-NH96BIF | 192.168.2.87 | F2:26:75:54:68:9C | | |
| | DESKTOP-NH96BIF | 192.168.2.86 | 50:EB:F6:5A:32:C4 | | |
| | DESKTOP-NH96BIF | 192.168.2.92 | 04:42:1A:30:CF:EF | | |
| | DESKTOP-GATONG4Y | 192.168.2.81 | AC:88:FD:11:44:D9 | | |
| | DESKTOP-CFUMO3M | 192.168.2.57 | 00:CF:E0:47:DE:8B | | |
| | DESKTOP-1 | 192.168.2.89 | 48:F3:17:01:82:74 | | |
| | Blair | 192.168.2.90 | 00:D8:61:D7:3B:36 | | |
| > | Android-5 | 192.168.2.61 | 04:F9:F8:2D:58:2A | | |
| | Android-2 | 192.168.2.69 | 7C:D6:61:F3:C7:54 | | |
| | Android | 192.168.2.91 | AE:F1:07:22:D9:0F | | |
| | 7K5SNJ4OEGW68P2 | 192.168.2.84 | 50:EB:F6:58:AA:BA | | |
| | 7K5SNJ4OEGW68P2 | 192.168.2.77 | 50:EB:F6:58:AA:BA | | |
| | 4CE229B8FH | 192.168.2.95 | 84:69:93:80:63:CF | | |
| | 192.168.2.98 | 192.168.2.98 | FC:83:C6:05:A5:51 | | |
| | 192.168.2.78 | 192.168.2.78 | D8:5E:D3:73:47:F5 | | |
| | 192.168.2.74 | 192.168.2.74 | E0:80:6B:BE:3A:C1 | | |
| | 192.168.2.71 | 192.168.2.71 | 72:28:F6:DB:7D:24 | | |
| | 192.168.2.62 | 192.168.2.62 | 16:D3:91:0D:FE:6B | | |
| | 192.168.2.60 | 192.168.2.60 | 12:C6:38:41:4A:CF | | |