**Jetson Nano Headless Setup**

1. Download image file from Nvidia website
2. Extract and write to micro mmc with etcher
3. Select dc power supply with jumper
4. Insert mmc to nano
5. Connect barrel power supply (5v,3a) to nano
6. Connect micro usb cable between pc and nano
7. Wait for com port appear
8. Open com port with putty (board rate: 115200)
9. Accept and proceed
10. Select primary interface as dummy0 (Wi-Fi will configure later)
11. Choose “do not configure network at this time” and proceed
12. Login with password
13. Insert wifi dongle in to usb port
14. Check dongle with “nmcli d”
15. Turn on the wifi “nmcli r wifi on”
16. List out wifi “nmcli d wifi list”
17. Enter ssid and password “sudo nmcli d wifi connect my\_wifi password <password>”
18. Check ip with “ifconfig wlan0”
19. Reboot and login via ssh on putty with above ip
20. Update with “sudo apt update”
21. Install nano “sudo apt-get install nano”
22. sudo nano /usr/share/glib-2.0/schemas/org.gnome.Vino.gschema.xml

and add

<key name='enabled' type='b'>

<summary>Enable remote access to the desktop</summary>

<description>

If true, allows remote access to the desktop via the RFB

protocol. Users on remote machines may then connect to the

desktop using a VNC viewer.

</description>

<default>true</default>

</key>

1. sudo glib-compile-schemas /usr/share/glib-2.0/schemas
2. gsettings set org.gnome.Vino require-encryption false
3. gsettings set org.gnome.Vino prompt-enabled false
4. run “nmcli connection show”
5. replace UUID and run

dconf write /org/gnome/settings-daemon/plugins/sharing/vino-server/enabled-connections "['UUID']"

1. modify “sudo nano /etc/gdm3/custom.conf”

AutomaticLoginEnable = true

AutomaticLogin = nano

1. reboot and run

“export DISPLAY=:0 && /usr/lib/vino/vino-server”

1. open vnc viewer in 192.168.43.166:5900
2. open startup application and add

/usr/lib/vino/vino-server

1. reboot
2. to change resolution add “sudo /etc/X11/xorg.conf”

Section "Monitor"

Identifier "DSI-0"

Option "Ignore"

EndSection

Section "Screen"

Identifier "Default Screen"

Monitor "Configured Monitor"

Device "Default Device"

SubSection "Display"

Depth 24

Virtual 1280 800

EndSubSection

EndSection

1. shutdown “sudo shutdown -h now”

**Reference**

* wifi

<https://desertbot.io/blog/jetson-nano-usb-headless-wifi-setup-edimax-ew-7811un>

<https://core.docs.ubuntu.com/en/stacks/network/network-manager/docs/configure-wifi-connections>

* vnc setup

<https://github.com/Aravindseenu/Nvidia-jetson-VNC-remote-access>

<https://itectec.com/ubuntu/ubuntu-start-vino-vnc-server-from-ssh-client/>

<https://www.programmersought.com/article/68834551211/>

https://www.programmersought.com/article/59874290677/

https://www.programmersought.com/article/29584651823/

* full setup

<https://www.hackster.io/news/getting-started-with-the-nvidia-jetson-nano-developer-kit-43aa7c298797>

https://raspberry-valley.azurewebsites.net/NVIDIA-Jetson-Nano/

* xrdp fix

<https://forums.developer.nvidia.com/t/issue-with-xrdp/110654/22>

https://c-nergy.be/blog/?p=12073

* auto login

<https://vitux.com/how-to-enable-disable-automatic-login-in-ubuntu-18-04-lts/>

* resolution fix

<https://forums.developer.nvidia.com/t/jetson-tx1-desktop-sharing-resolution-problem-without-real-monitor/48041/11>