

VNC configuration

Tip: The configured image has a username of Jetson and the original password is yahboom. If you are using a configured image and VNC is already configured, you can directly skip to step 6 and log in to VNC based on the current IP address

1、Install vino

```
sudo apt update
```

```
jetson@jetson-desktop:~$ 安装vino
-bash: 安装vino: command not found
jetson@jetson-desktop:~$ sudo apt update
Get:1 file:/var/cuda-repo-10-2-local-10.2.89 InRelease
Ign:1 file:/var/cuda-repo-10-2-local-10.2.89 InRelease
Get:2 file:/var/visionworks-repo InRelease
Ign:2 file:/var/visionworks-repo InRelease
Get:3 file:/var/visionworks-sfm-repo InRelease
Ign:3 file:/var/visionworks-sfm-repo InRelease
Get:4 file:/var/visionworks-tracking-repo InRelease
Ign:4 file:/var/visionworks-tracking-repo InRelease
Get:5 file:/var/cuda-repo-10-2-local-10.2.89 Release [574 B]
Get:5 file:/var/cuda-repo-10-2-local-10.2.89 Release [574 B]
Get:6 file:/var/visionworks-repo Release [2,001 B]
Get:6 file:/var/visionworks-repo Release [2,001 B]
Get:7 file:/var/visionworks-sfm-repo Release [2,005 B]
Get:7 file:/var/visionworks-sfm-repo Release [2,005 B]
Get:8 file:/var/visionworks-tracking-repo Release [2,010 B]
Get:8 file:/var/visionworks-tracking-repo Release [2,010 B]
Hit:15 http://ports.ubuntu.com/ubuntu-ports bionic InRelease
Hit:13 https://repo.download.nvidia.cn/jetson/common r32.4 InRelease
Hit:14 https://repo.download.nvidia.cn/jetson/t210 r32.4 InRelease
Get:16 http://ports.ubuntu.com/ubuntu-ports bionic-updates InRelease
```

```
sudo apt install vino
```

```
jetson@jetson-desktop:~$ sudo apt install vino
Reading package lists... Done
Building dependency tree
Reading state information... Done
vino is already the newest version (3.22.0-3ubuntu1.1).
vino set to manually installed.
The following packages were automatically installed and are no longer required:
  apt-clone archdetect-deb bogl-bterm busybox-static cryptsetup-bin
  kwayland-data kwin-common kwin-data kwin-x11 libdebian-installer4
  libkf5completion5 libkf5declarative-data libkf5declarative5 libkf5
  libkf5jobwidgets-data libkf5jobwidgets5 libkf5kcmutils-data libkf5
  libkf5package-data libkf5package5 libkf5plasma5 libkf5quickaddons
```

2、Set Enable VNC service (at this time, the VNC server can be manually opened)

```
sudo ln -s ../vino-server.service
/usr/lib/systemd/user/graphical-session.target.wants
```

```
jetson@jetson-desktop:~$ sudo ln -s ../vino-server.service /usr/lib/systemd/user/graphical-session.target.wants
```

```
# Set VNC server:
gsettings set org.gnome.Vino prompt-enabled false
gsettings set org.gnome.Vino require-encryption false
```

```
jetson@jetson-desktop:~$ gsettings set org.gnome.Vino prompt-enabled false
jetson@jetson-desktop:~$ gsettings set org.gnome.Vino require-encryption false
```

Edit org.gnome, restore the missing 'enabled' parameter, enter the command to enter the file, and add the key content below to the end of the file. Save and exit.

```
sudo vi /usr/share/glib-2.0/schemas/org.gnome.Vino.gschema.xml
```

```
jetson@jetson-desktop:~$ sudo vi /usr/share/glib-2.0/schemas/org.gnome.Vino.gschema.xml
jetson@jetson-desktop:~$
```

```
<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>false</default>
</key>
```

```
<key name='disable-xdamage' type='b'>
  <summary>Whether we should disable the XDamage extension of X.org</summary>
  <description>
    If true, do not use the XDamage extension of X.org. This extension does
    not work properly on some video drivers when using 3D effects.
    Disabling it will make Vino work in these environments, with slower
    rendering as a side effect.
  </description>
  <default>false</default>
</key>

<key name='notify-on-connect' type='b'>
  <summary>Notify on connect</summary>
  <description>
    If true, show a notification when a user connects to the system.
  </description>
  <default>true</default>
</key>
<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>false</default>
</key>
</schema>
</schemalist>
```

Set to Gnome compilation mode

```
sudo glib-compile-schemas /usr/share/glib-2.0/schemas
```

Now the screen sharing panel is working in the unit control center But this is not enough to make Vino run! So you need to add the program Vino server when the session starts, using the following command line:

```
/usr/lib/vino/vino-server
```

```
jetson@jetson-desktop:~$ /usr/lib/vino/vino-server
```

This type of startup belongs to manual mode. If manual startup is required every time, it will be more troublesome. Below, we will set the form of startup and self start.

3、Set VNC login password (change 'thepassword' to your own password)

```
gsettings set org.gnome.Vino authentication-methods "['vnc']"  
gsettings set org.gnome.Vino vnc-password $(echo -n 'thepassword' |base64)
```

```
jetson@jetson-desktop:~$ gsettings set org.gnome.Vino vnc-password $(echo -n 'yahboom' |base64)
```

4、Restart the machine and verify if vnc settings were successful

```
sudo reboot
```

5. Set the VNC Server to start automatically after startup

The VNC server is only available after you log in locally to Jetson. If you want VNC to be automatically available, please use the system settings application to enable automatic login.

```
gsettings set org.gnome.Vino enabled true  
mkdir -p ~/.config/autostart  
vi ~/.config/autostart/vino-server.desktop
```



Add the following content to the file, save and exit.

```
[Desktop Entry]  
Type=Application  
Name=Vino VNC server  
Exec=/usr/lib/vino/vino-server  
NoDisplay=true
```



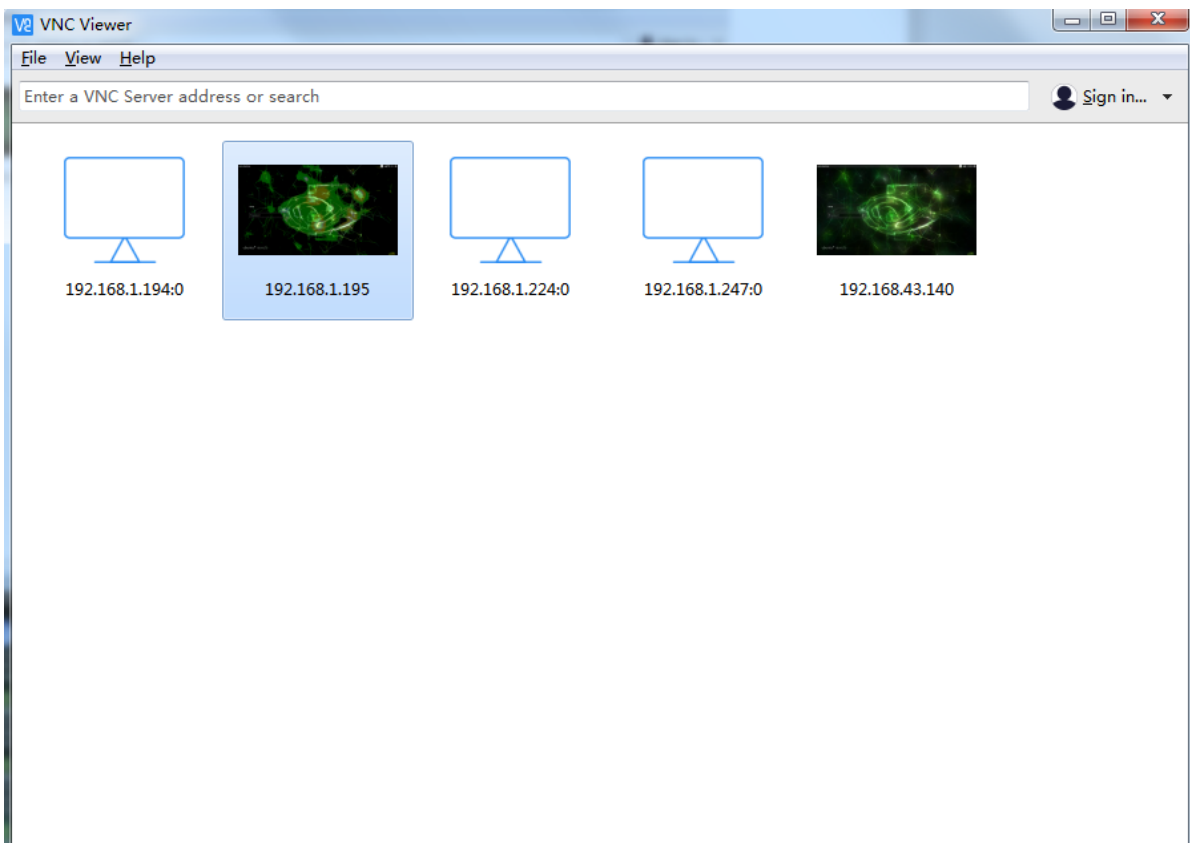
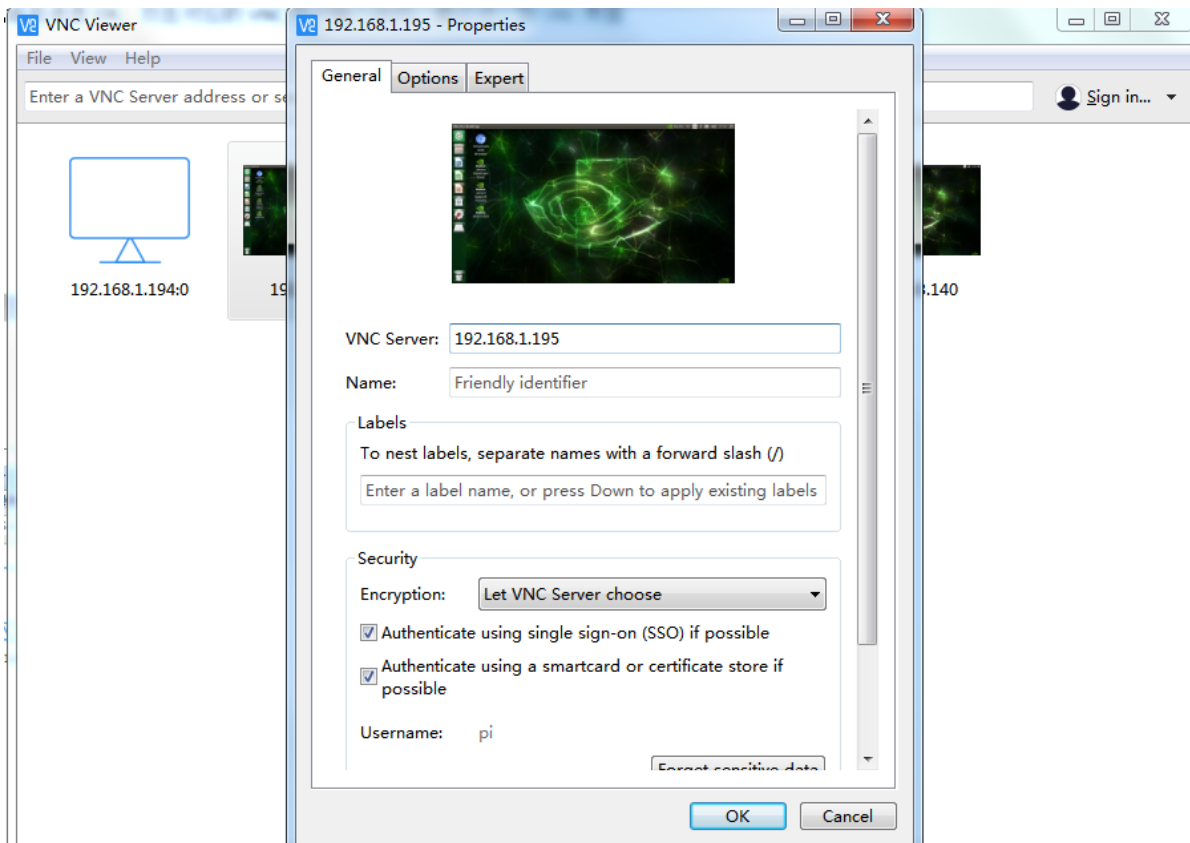
```
[Desktop Entry]  
Type=Application  
Name=Vino VNC server  
Exec=/usr/lib/vino/vino-server  
NoDisplay=true  
~  
~  
~  
~  
~  
~
```

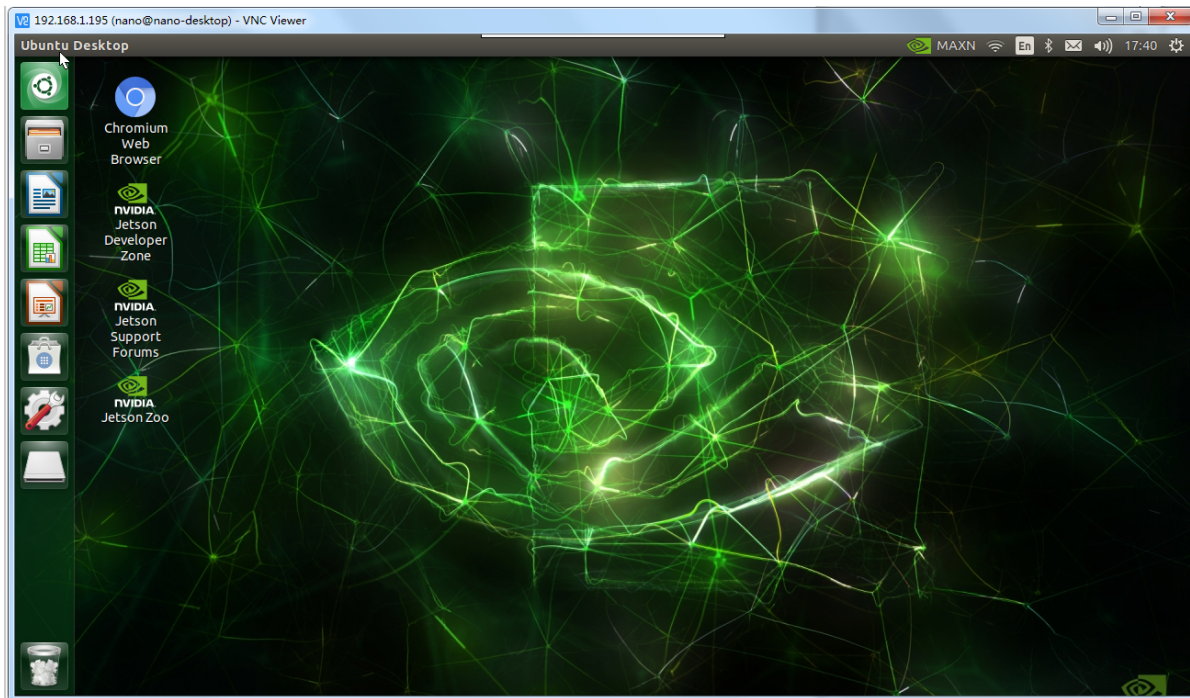
If the system is set to require a user password to enter before entering the desktop, the above modification script will not start until entering the desktop. It is recommended to set the system to automatically log in to the desktop by the user.

6. connect VNC Server

Using vnc

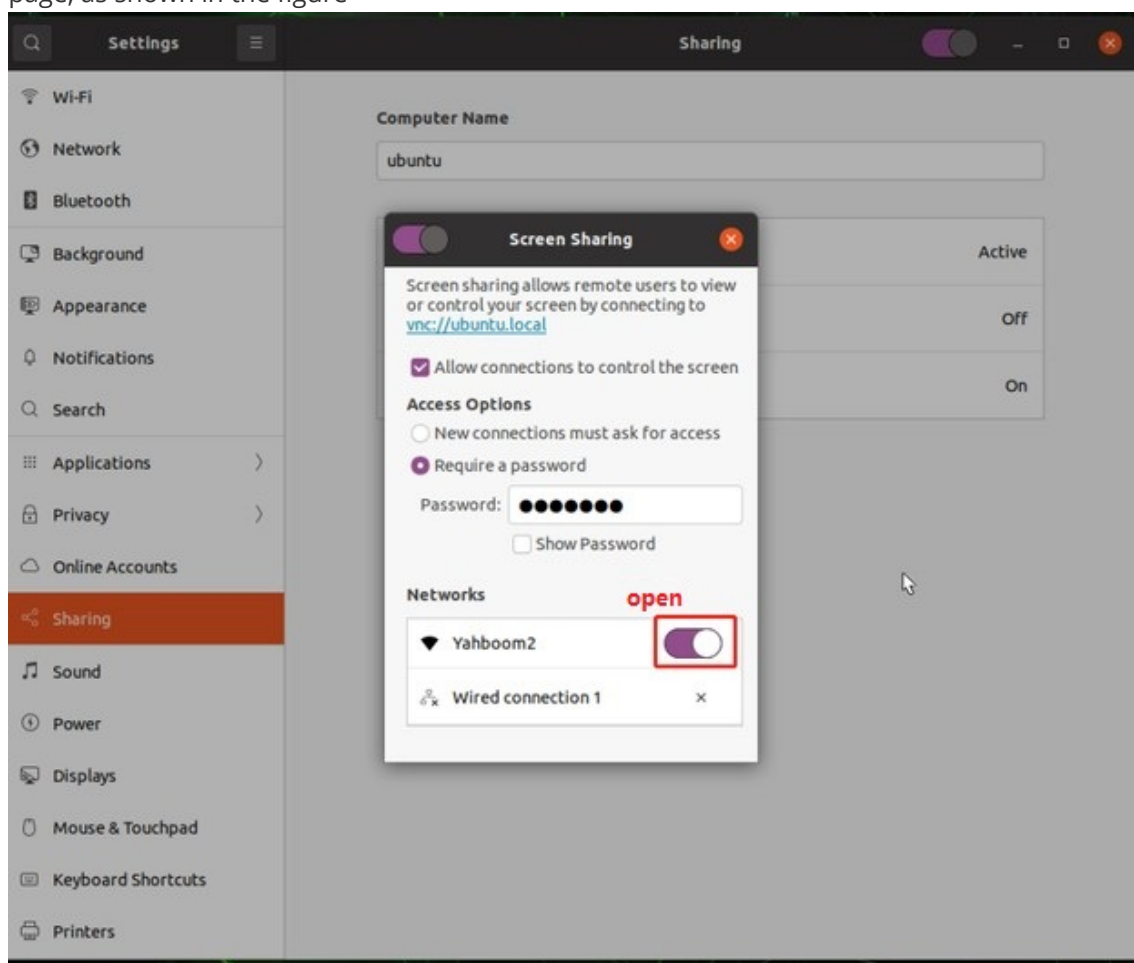
To connect to VNC using the viewer software, the first step is to query the IP address. I found 192.168.1.195 here. After entering the IP address, click OK, double-click the corresponding VNC user to enter the password, and finally enter the VNC interface





7. Precautions for using VNC for Jetson orin NX

- Every time you connect to a new WiFi, you need to open the shared WiFi on the settings page, as shown in the figure



- To use VNC desktop, it is necessary to connect the dp display cable properly, otherwise you cannot access the desktop of Jetson Orin nx

