

VNC remote control

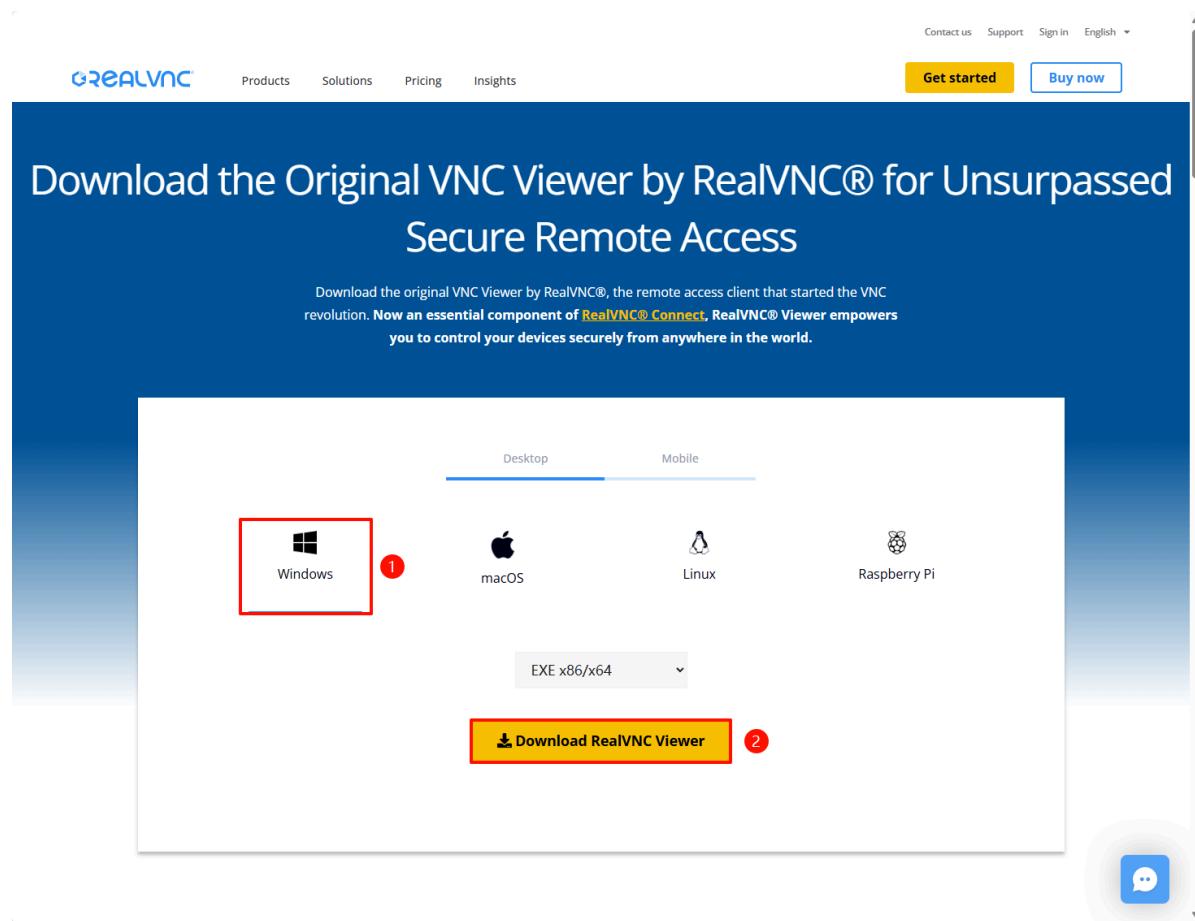
Tutorial to configure the built-in screen sharing of Ubuntu22.04 system for VNC remote control.

windows computer needs to download and install VNC Viewer in advance and the remote device and the remote device are in the same LAN

1. VNC Viewer

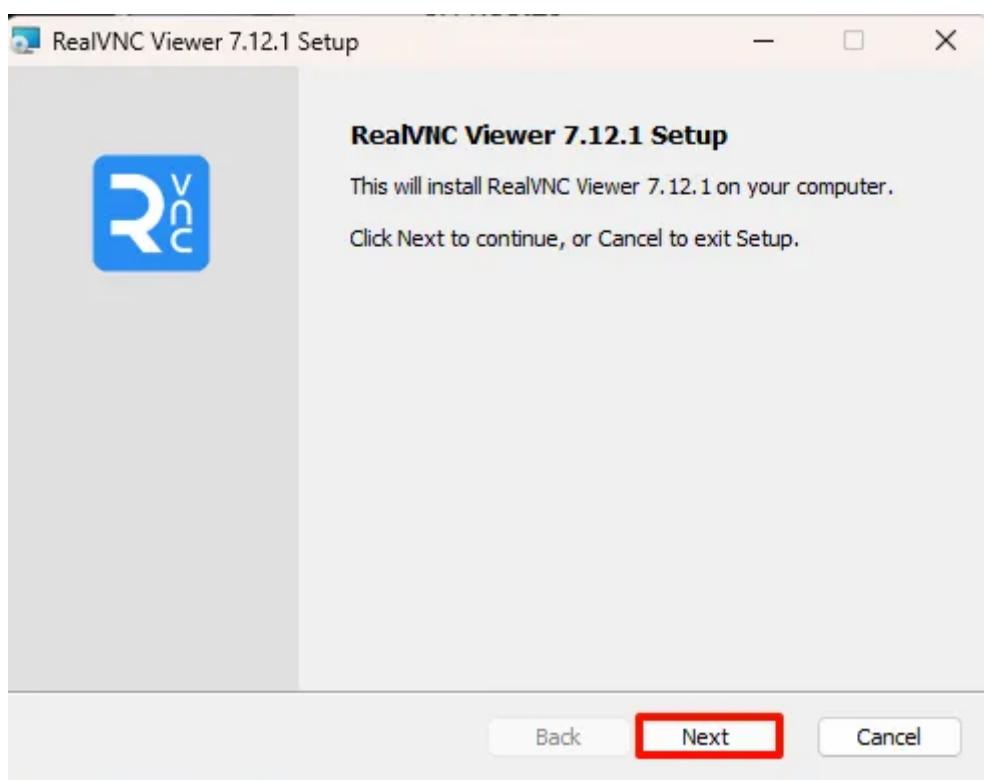
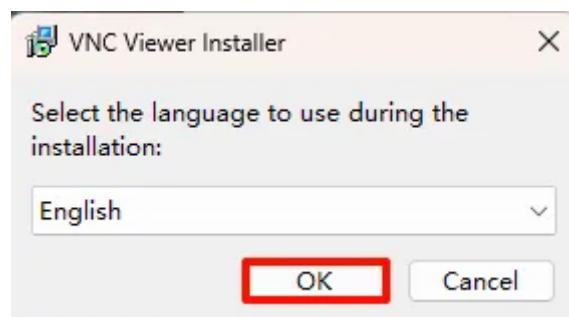
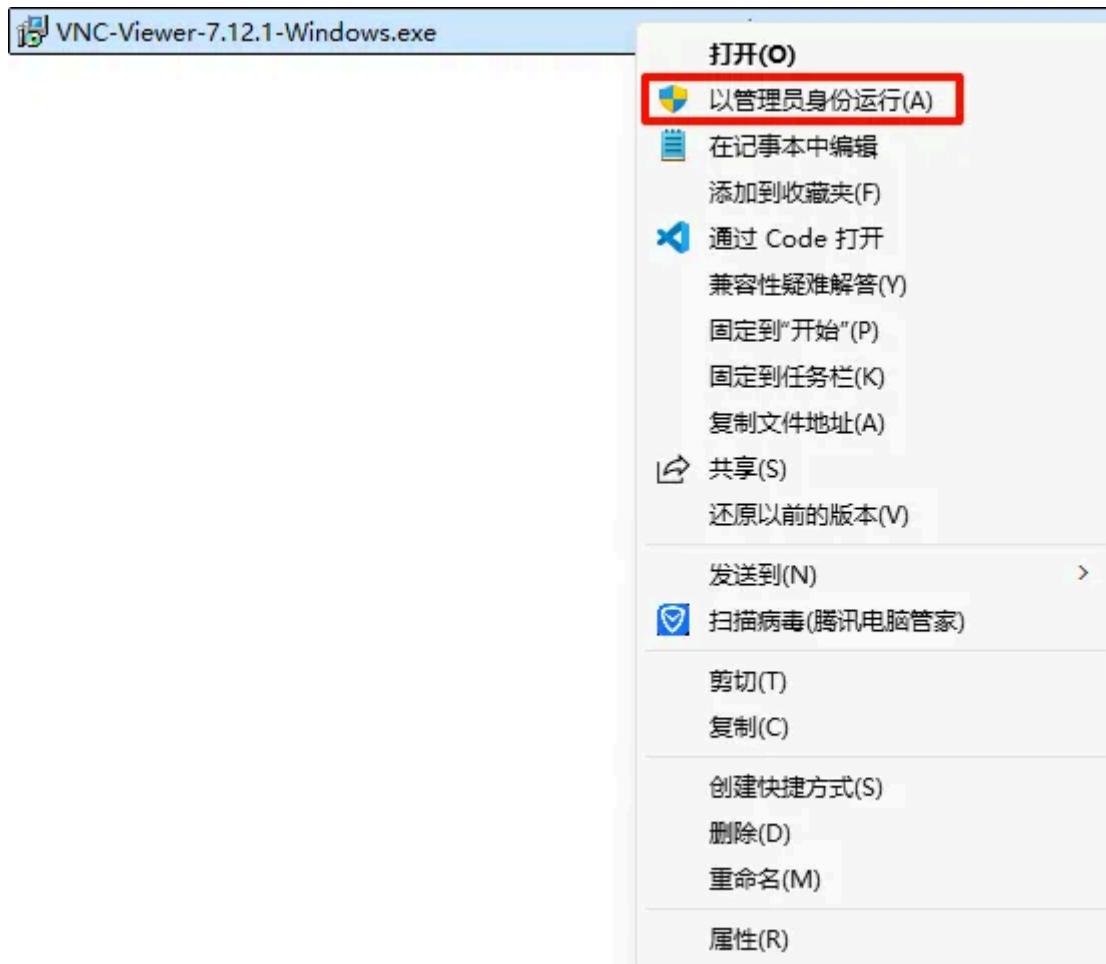
1.1. VNC download

Official website download address: <https://www.realvnc.com/en/connect/download/viewer/>

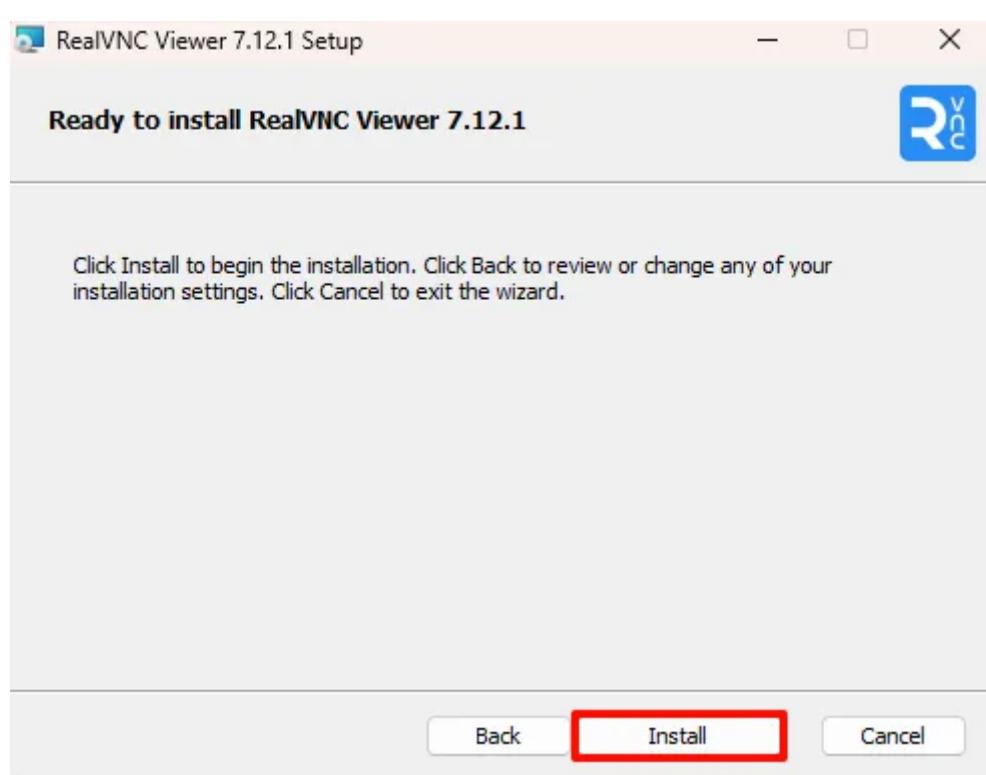
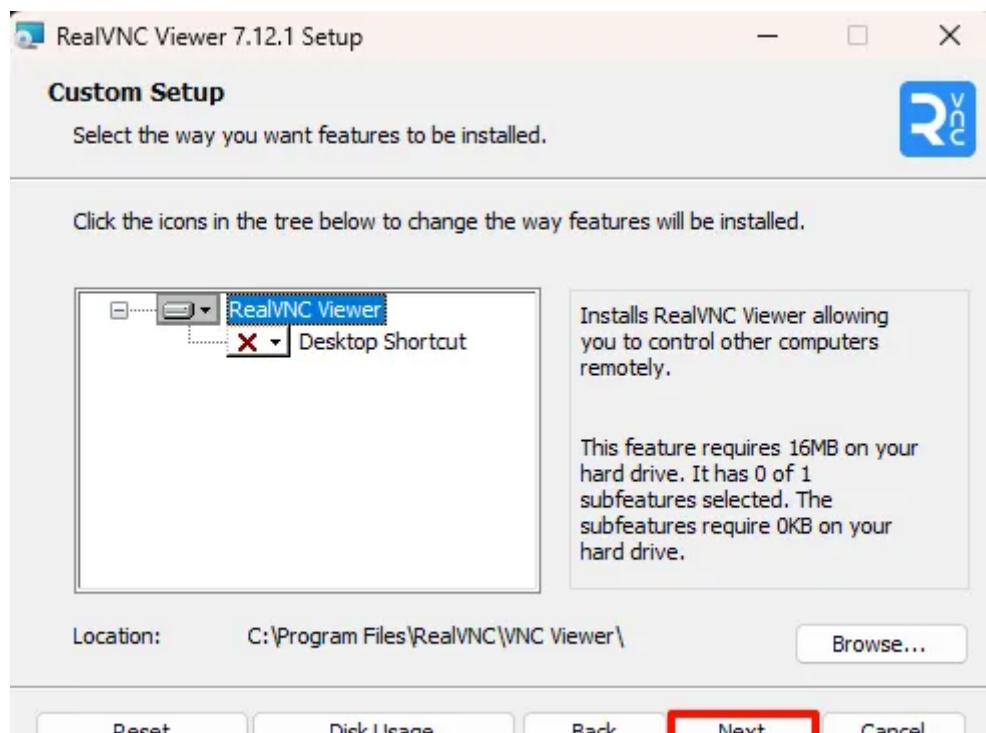


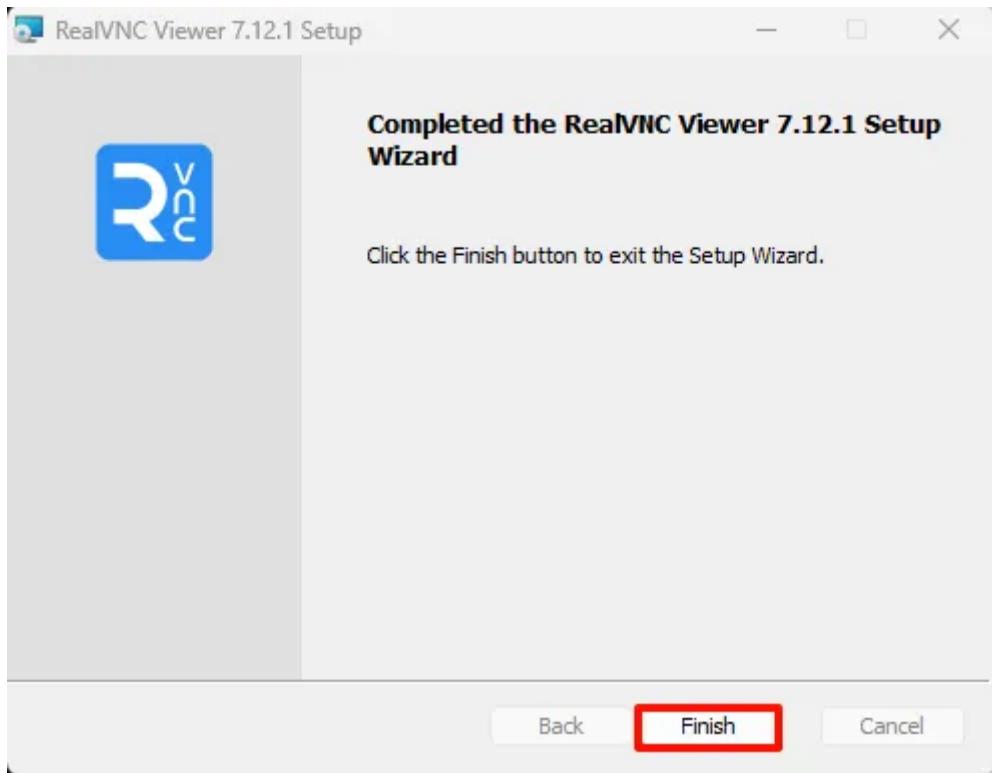
1.2. VNC Installation

Run VNC-Viewer-xxx.exe as an administrator:

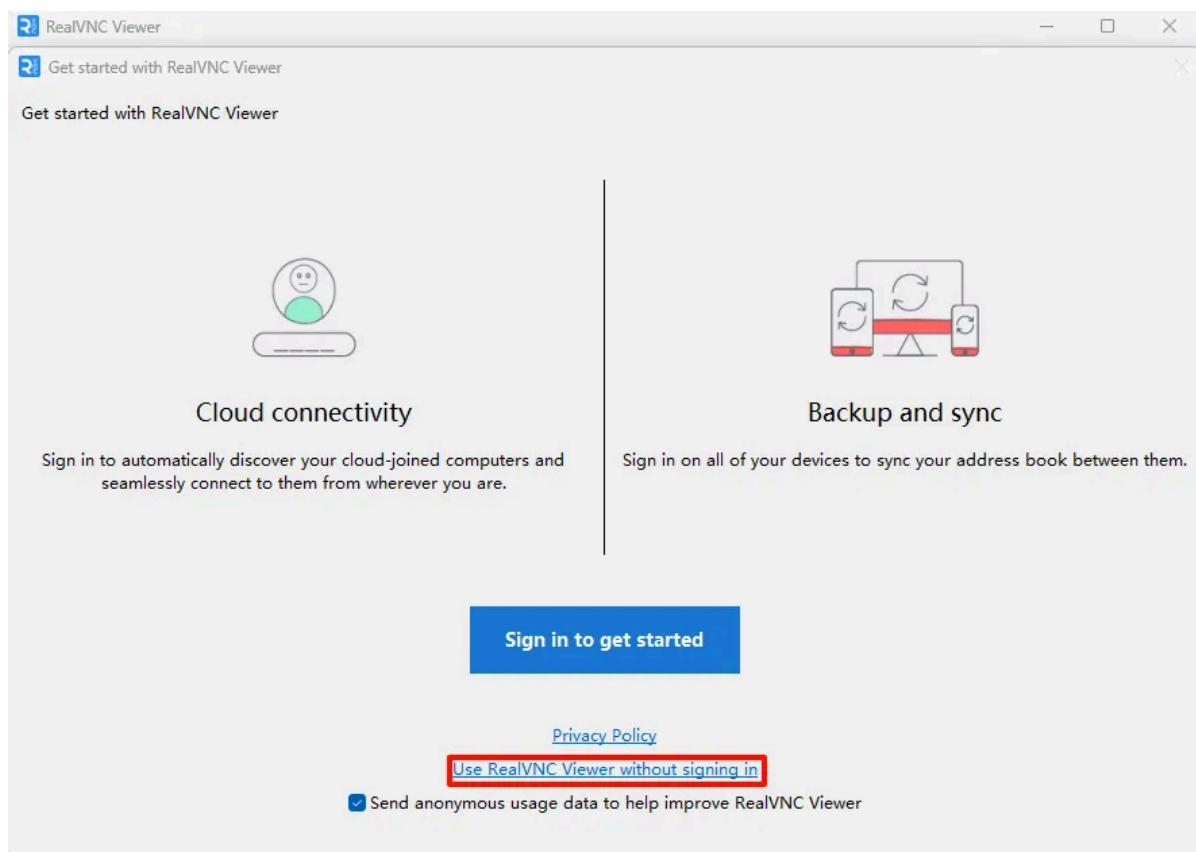


![image.png] (1731245794795-9efa7e97-85ea-4c79-b598-f17a6c46ad8b.webp)

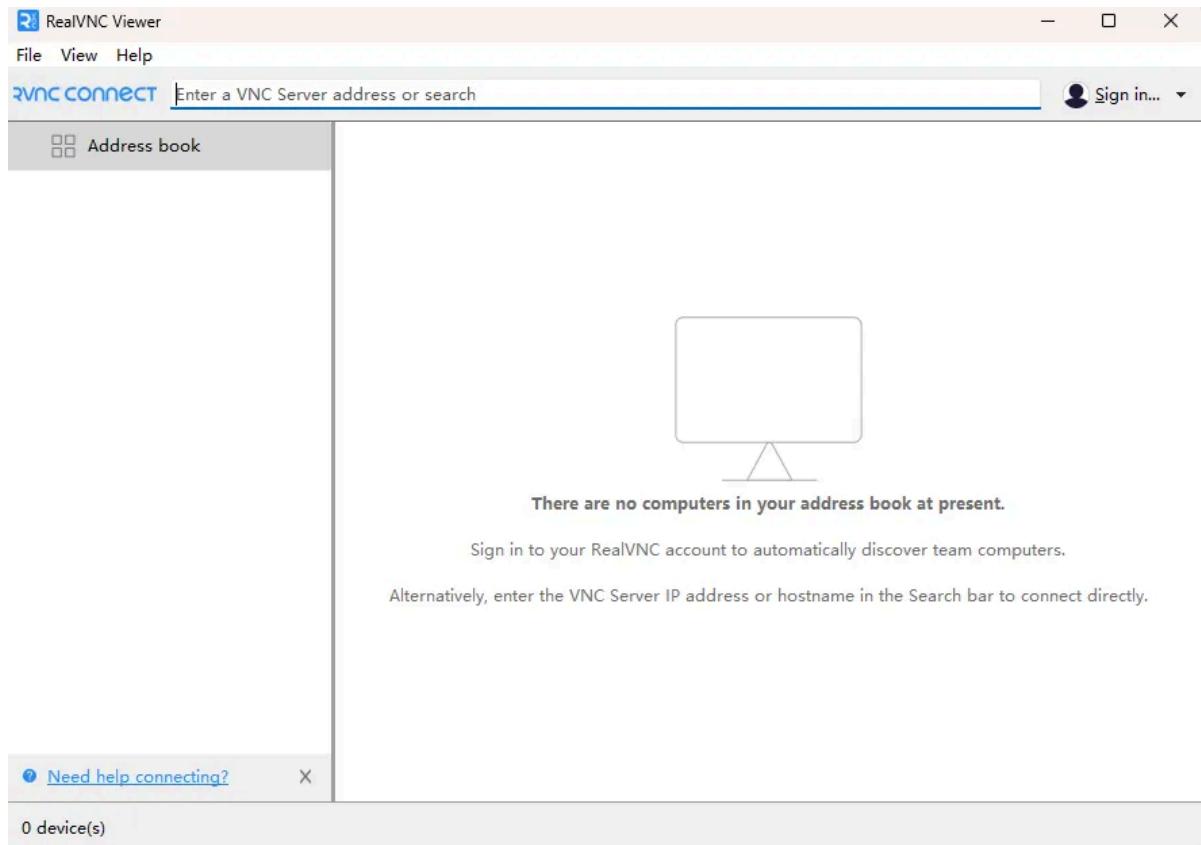




1.3. Use VNC



The RealVNC Viewer welcome screen. The title bar says "RealVNC Viewer". The main heading is "Get started with RealVNC Viewer". On the left, there's a section titled "Cloud connectivity" with a user icon and the text: "Sign in to automatically discover your cloud-joined computers and seamlessly connect to them from wherever you are.". On the right, there's a section titled "Backup and sync" with a devices icon and the text: "Sign in on all of your devices to sync your address book between them.". A large blue button at the bottom center says "Sign in to get started". Below it are links for "Privacy Policy" and "Use RealVNC Viewer without signing in" (which is highlighted with a red box). There's also a checked checkbox for "Send anonymous usage data to help improve RealVNC Viewer".

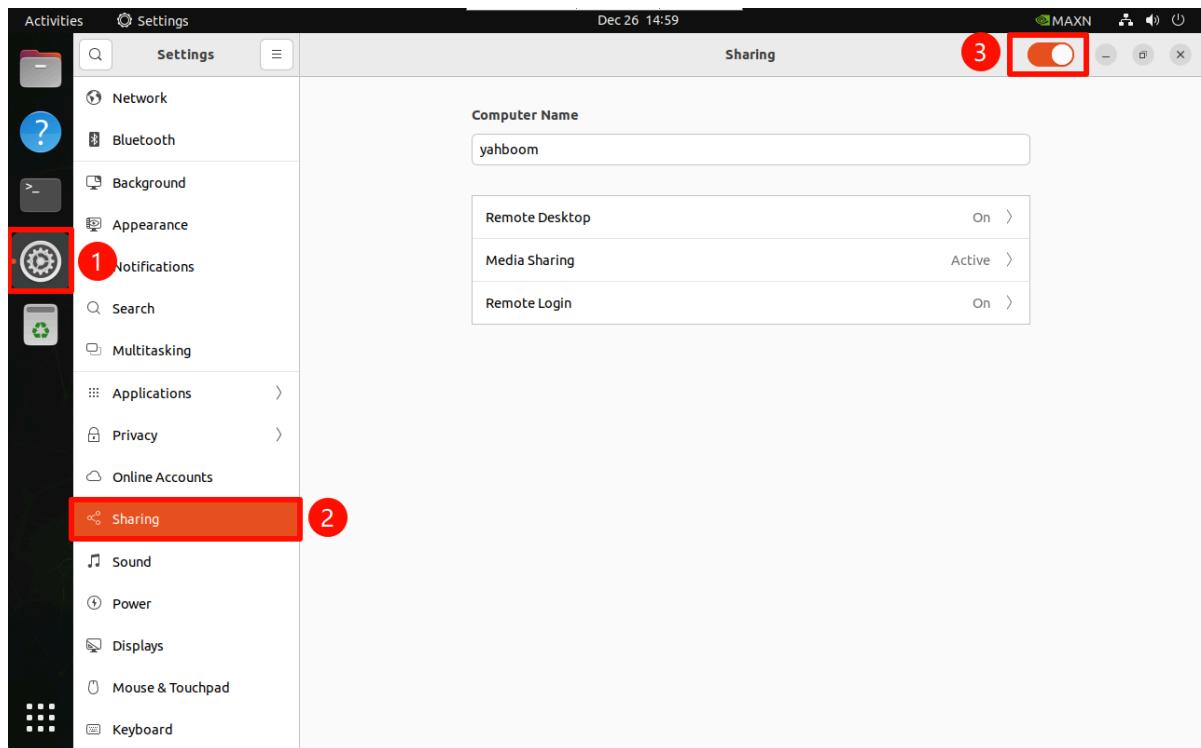


2. System Settings (Jetson)

2.1. Enable desktop remote

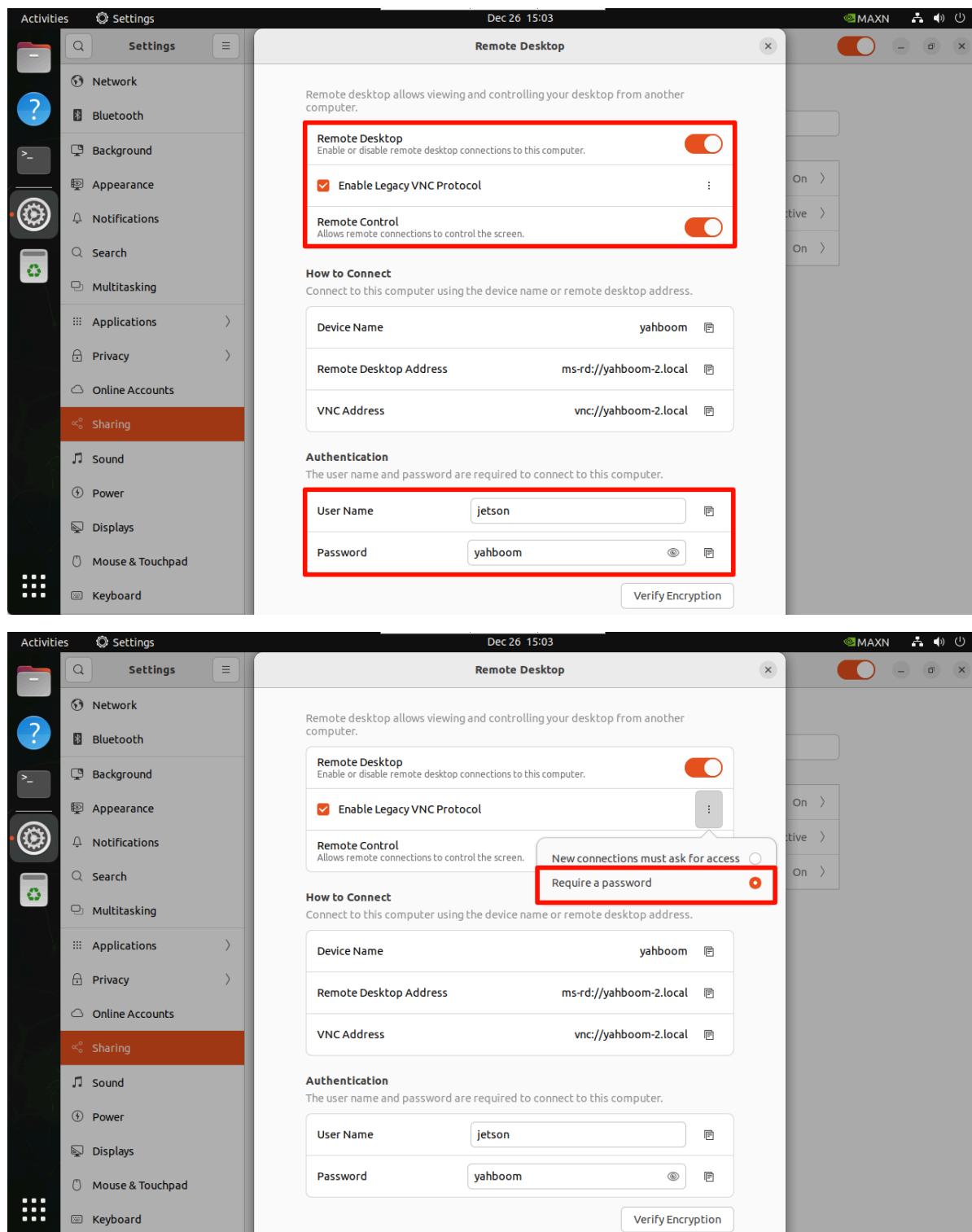
2.1.1. Sharing

Settings → Sharing



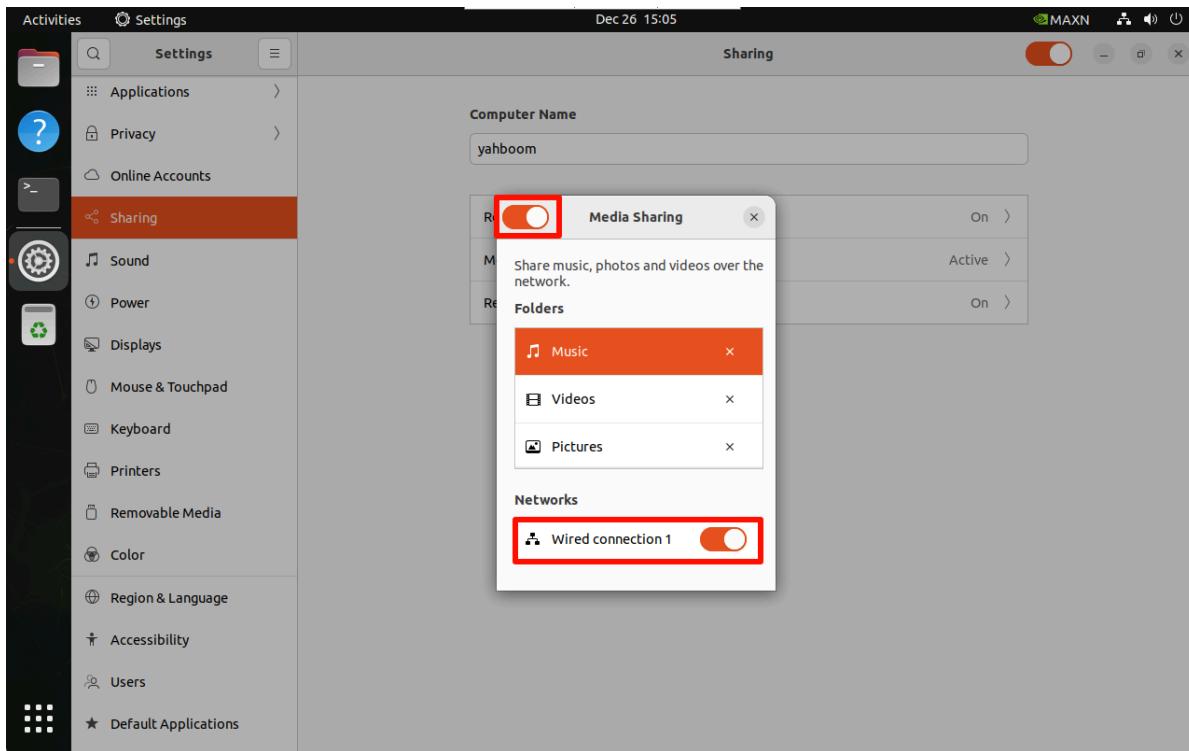
2.1.2. Remote Desktop

Turn on the remote desktop switch and enable the traditional VNC protocol (need to check the password required): the access password can be modified by yourself!



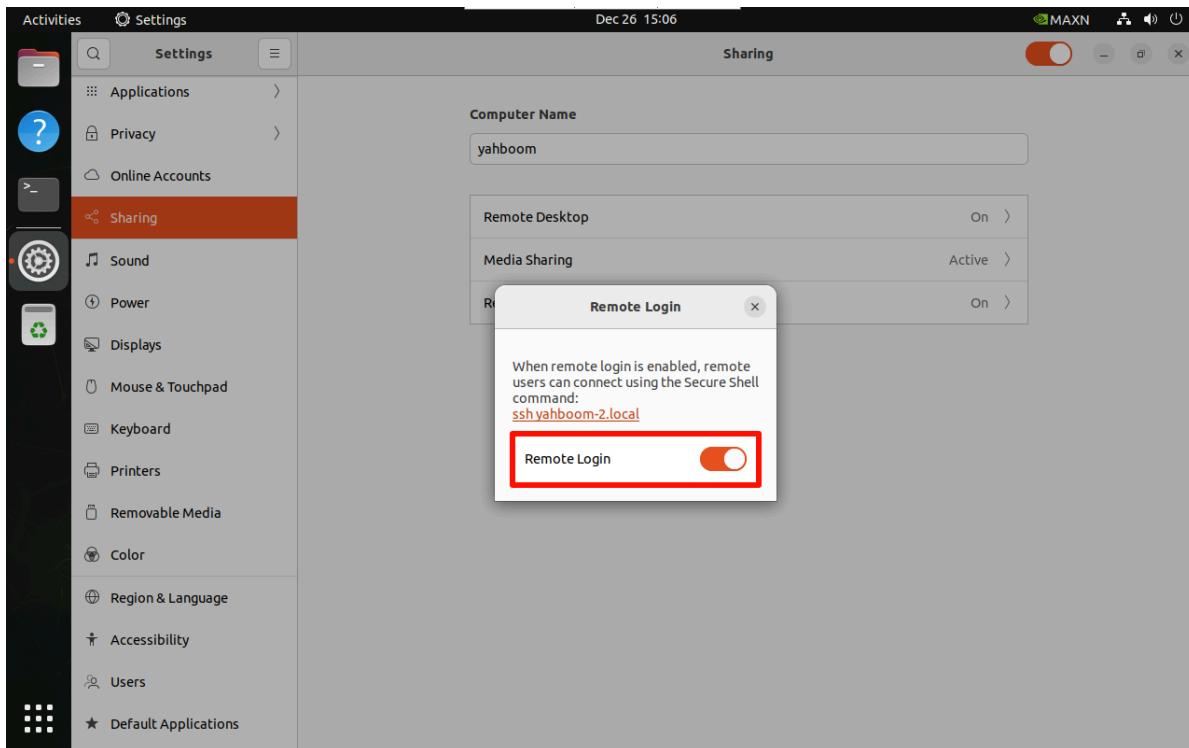
2.1.3. Media Sharing

You need to check this option every time you switch networks and turn on the switch of the new network:



2.1.4 Remote Login

Turn on remote login:

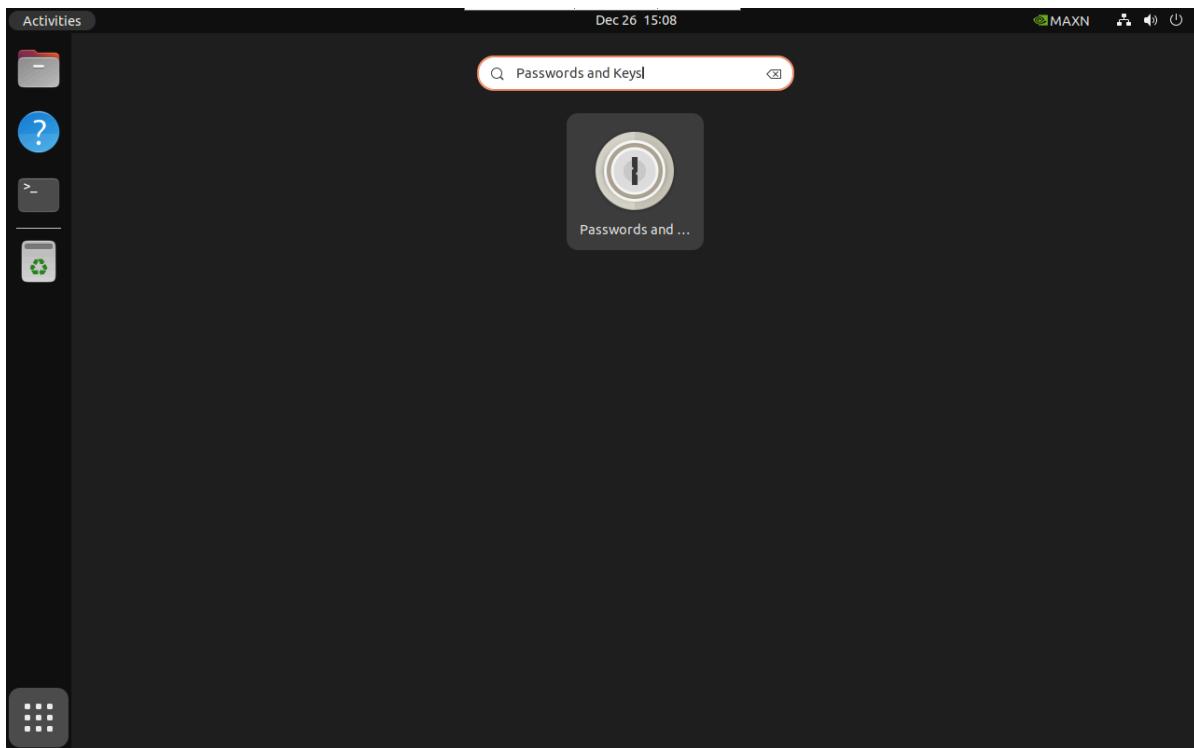


2.2, Fixed remote password

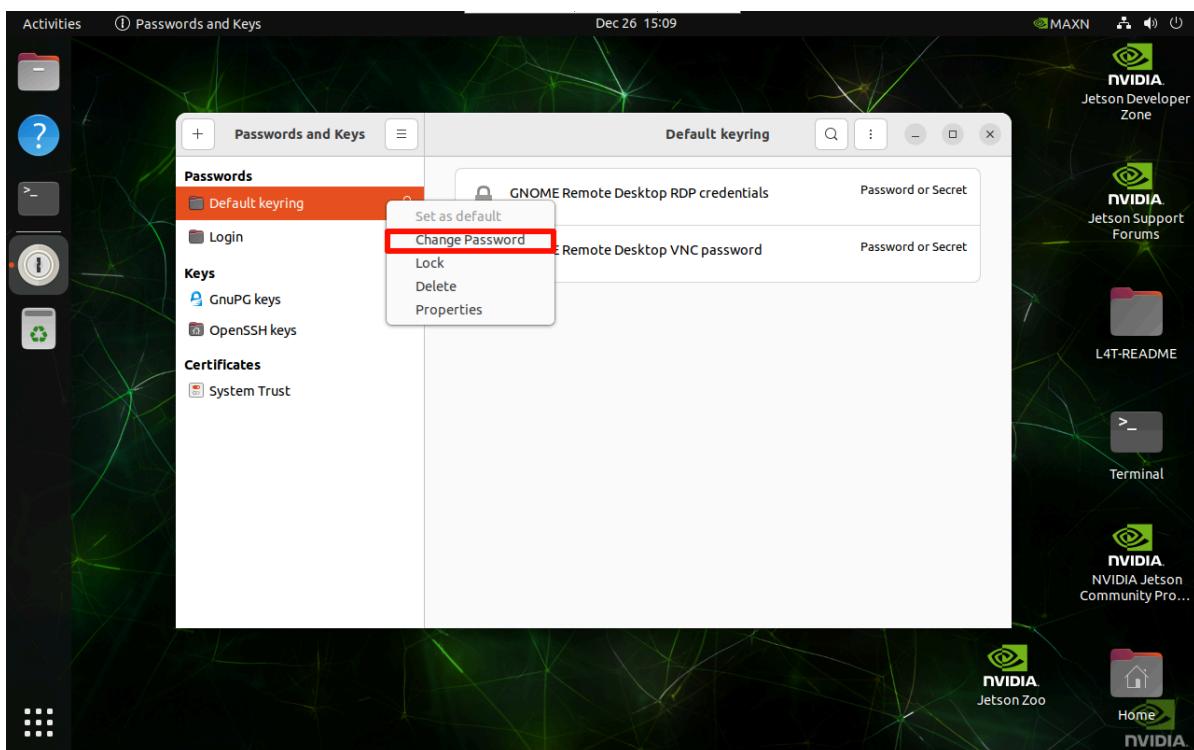
You can perform VNC remote control by completing the above settings, but the access password of the Jetson motherboard will change every time it restarts. The fixed password needs to be operated as follows!

Passwords and Keys

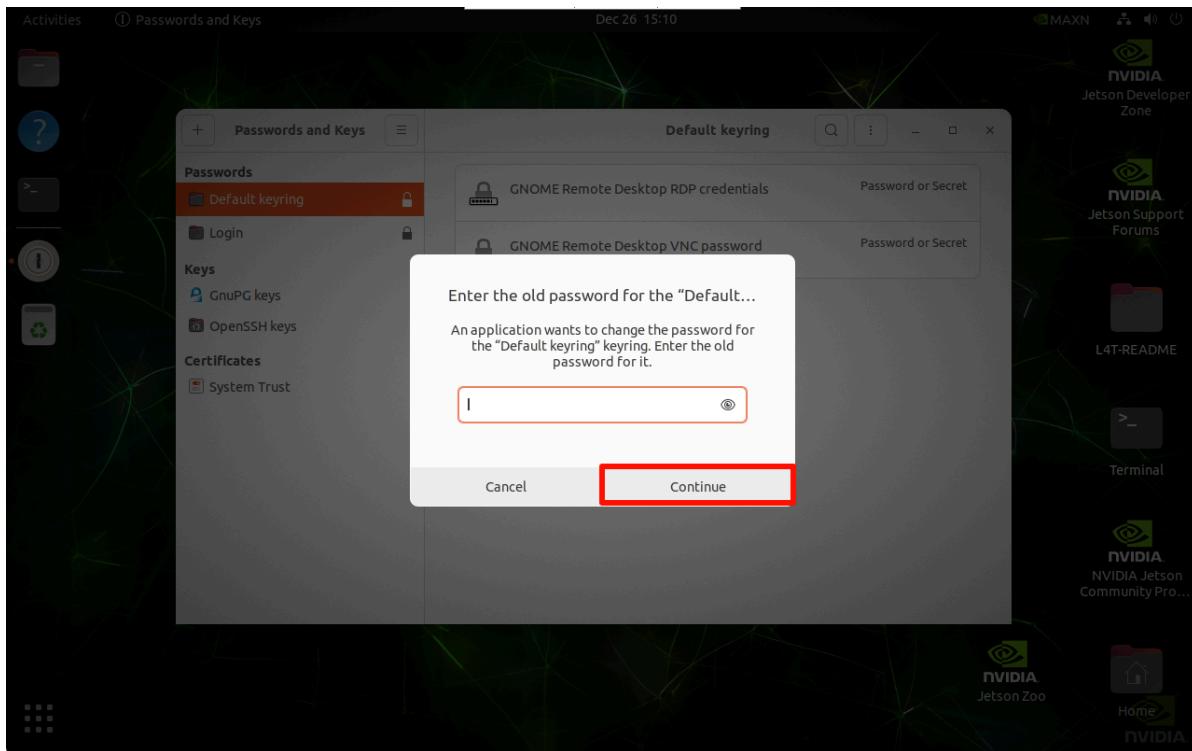
Enter Passwords and Keys to set no key:



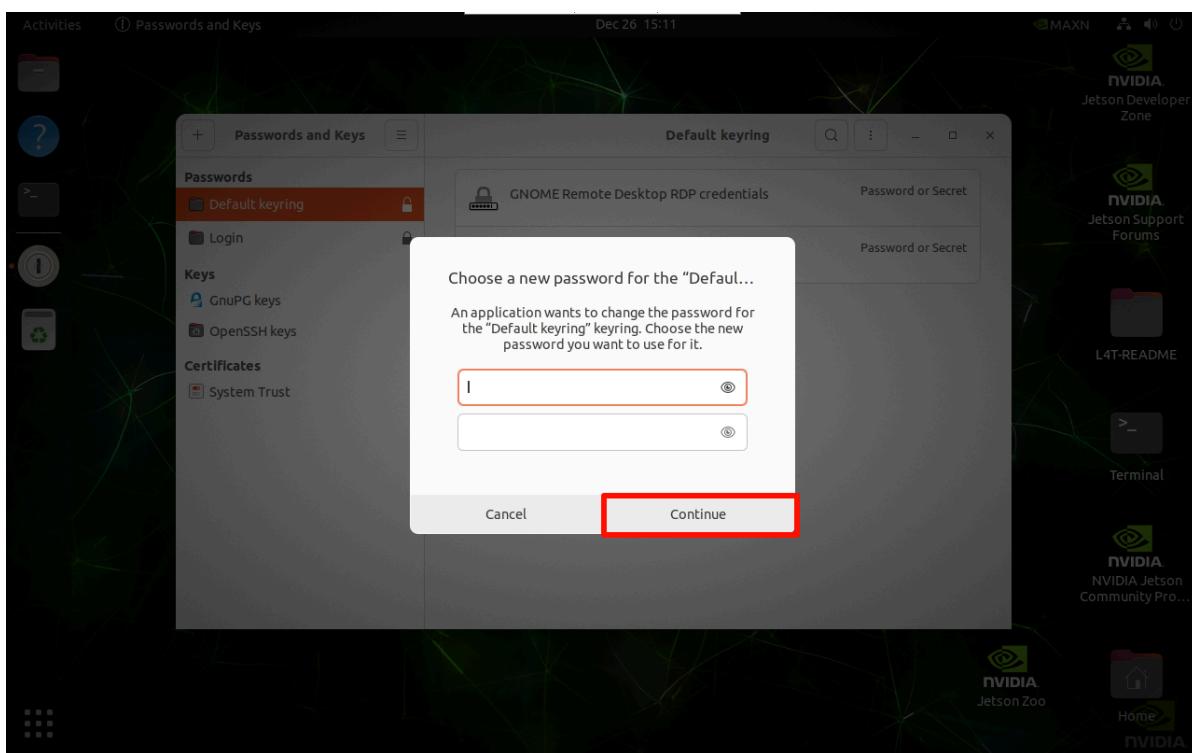
Select the default key to modify the password:

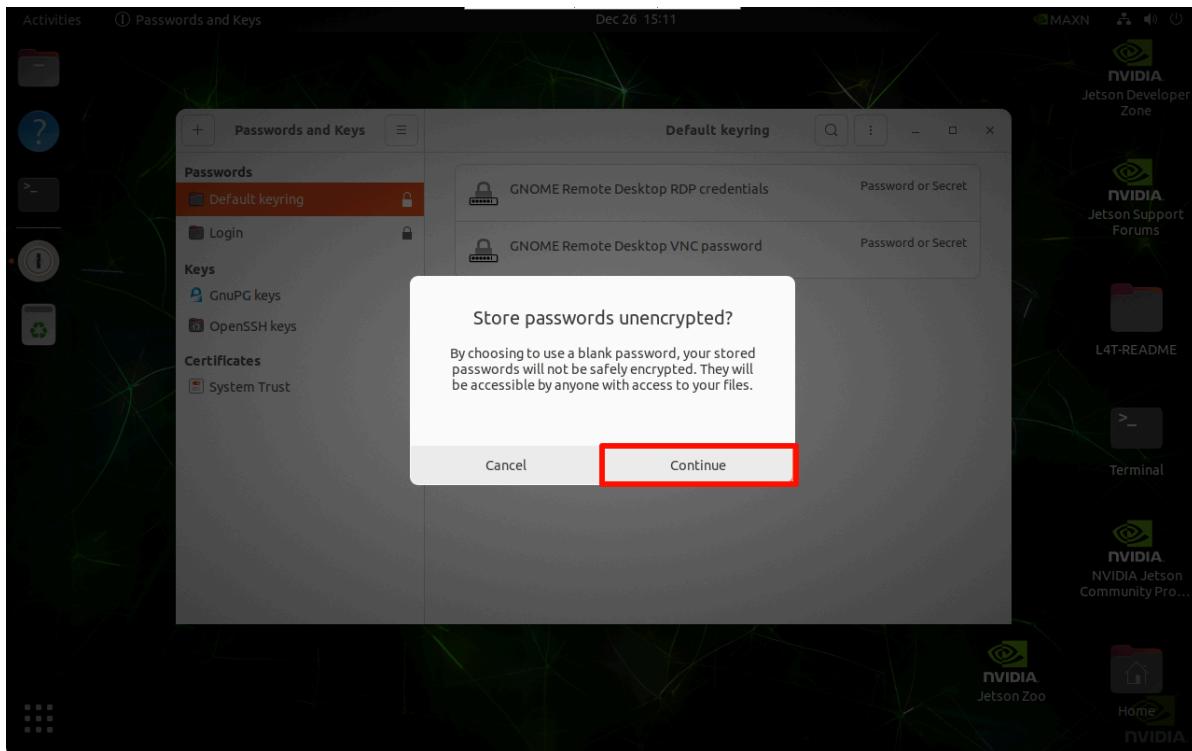


Enter the current password:



Set an empty key: Submit without filling in any content





2.3, Start VNC automatically after booting

After completing the above operations, the Jetson motherboard cannot be remotely accessed by VNC after the screen is locked. We can follow the following operations to solve the remote problem of locked screen.

Desktop extension manager

Install desktop extension manager:

```
sudo apt install gnome-shell-extension-manager -y
```

Get the gnome-shell version number:

```
gnome-shell --version
```

```

Activities Terminal Dec 26 15:21 MAXN NVIDIA Jetson Developer Zone
jetson@yahboom: ~
jetson@yahboom: $ sudo apt install gnome-shell-extension-manager -y
[sudo] password for jetson:
Reading package lists... Done
Building dependency tree... Done
Reading state information... Done
gnome-shell-extension-manager is already the newest version (0.3.0-0ubuntu2.1).
The following packages were automatically installed and are no longer required:
  gdal-data libaec0 libarmadillo10 libbarpack2 libavcodec-dev libavformat-dev libavutil-dev
  libblosc1 libcfitsio9 libcharls2 libcdci394-dev libdeflate-dev libdouble-conversion3
  libexif-dev libfreib1 libfybaio libgdal30 libgdcn-dev libgdcm3.0 libgeos-c1v5 libgeos3.10.2
  libgeotiff5 libgl2ps1.4 libglew2.2 libgphoto2-dev liblhd4-0-alt liblhd5-103-1 liblhd5-hl-100
  libheif1 libilmbase-dev libjbig-dev libjpeg-dev libjpeg-turbo8-dev libjpeg8-dev libkmlbase1
  libkmldom1 libkmlengnei liblpt5 libmng1 libmysqlclient21 libnetcdf19 libodbc2
  libodbcinst2 libogdi4.1 libopencv-calib3d4.5 libopencv-contrib4.5 libopencv-dnn4.5d
  libopencv-features2d4.5d libopencv-flann4.5d libopencv-highgui4.5d libopencv-imgcodecs4.5d
  libopencv-imgproc4.5d libopencv-m14.5d libopencv-obddetect4.5d libopencv-photo4.5d
  libopencv-shape4.5d libopencv-stitching4.5d libopencv-superres4.5d libopencv-video4.5d
  libopencv-videoio4.5d libopencv-videostab4.5d libopencv-viz4.5d libopenexr-dev libpng-dev
  libpq5 libproj22 libraw1394-dev librttopo1 libsocket++1 libspatialite7 libstb5 libsuperlu5
  libswresample-dev libwscale-dev libsz2 libtbb-dev libtesseract4 libtiff-dev libtiffxx5
  liburiparser1 libvtk9.1 libxerces-c3.2 mysql-common proj-data unixodbc-common
Use 'sudo apt autoremove' to remove them.
0 upgraded, 0 newly installed, 0 to remove and 0 not upgraded.
jetson@yahboom: $ gnome-shell --version
GNOME Shell 42.9
jetson@yahboom: $

```

Download the plug-in that allows remote access under lock screen according to the version number:

official website: <https://extensions.gnome.org/extension/4338/allow-locked-remote-desktop/>

Allow Locked Remote Desktop - GNOME Shell Extensions - Chromium

To control GNOME Shell extensions using this site you must install GNOME Shell integration that consists of two parts: browser extension and native host messaging application.
Click here to install browser extension. See wiki page for native host connector installation instructions.

Allow Locked Remote Desktop by Jonathan Kamens | 99372 downloads

Allow remote desktop connections when the screen is locked

Extension Homepage: <https://github.com/jikamens/allow-locked-remote-desktop/>

Session Mode(s) Download

User Reviews

stirbot
To get this working after upgrading from Fedora 39 to Fedora 40 + Gnome 46 I had to manually turn the extension off and then back on to install the update. Work great now, thanks!

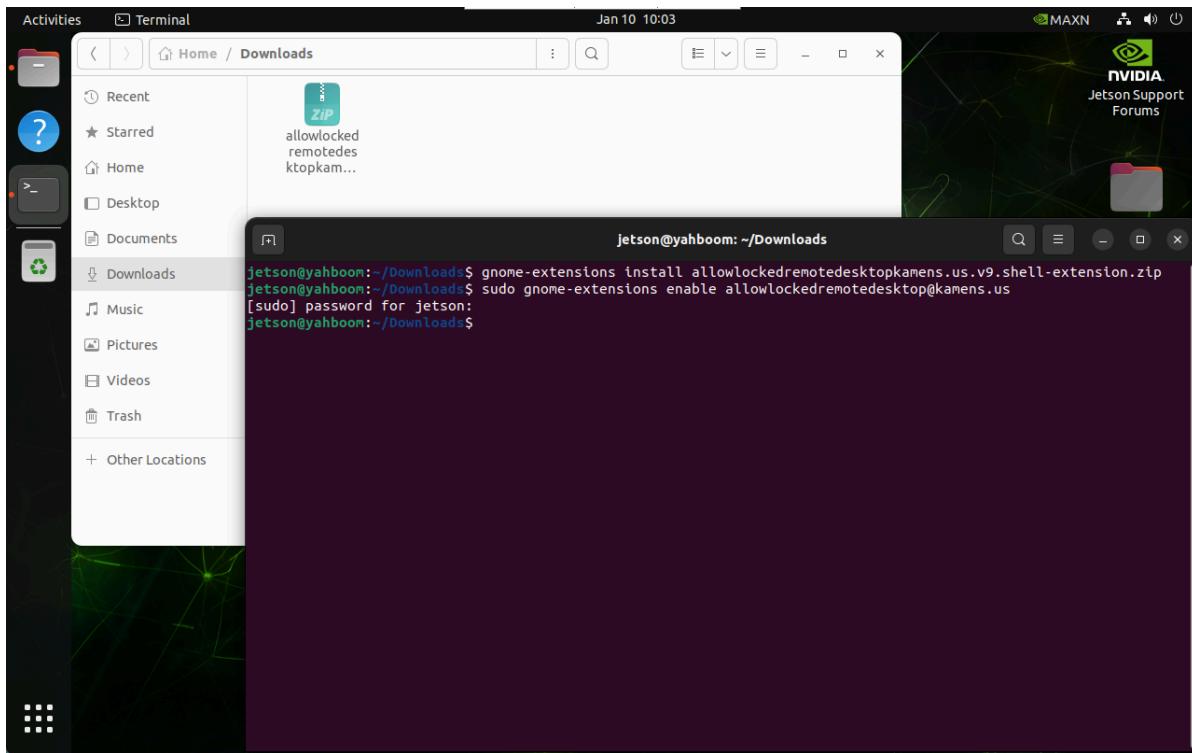
Your opinion

Unfortunately, to help prevent spam, we require that you [log in to GNOME Shell Extensions](#) in order to post a comment or report an error. You understand, right?

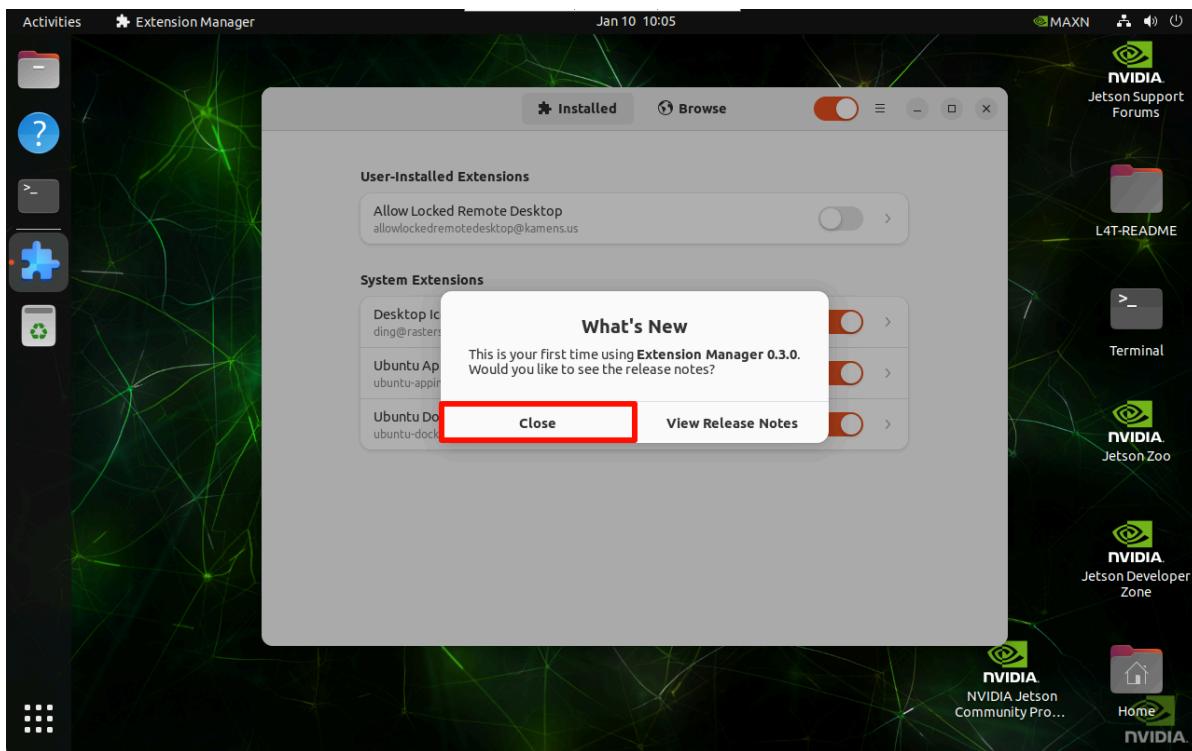
Install/enable plug-in: Users need to enter the file location to install

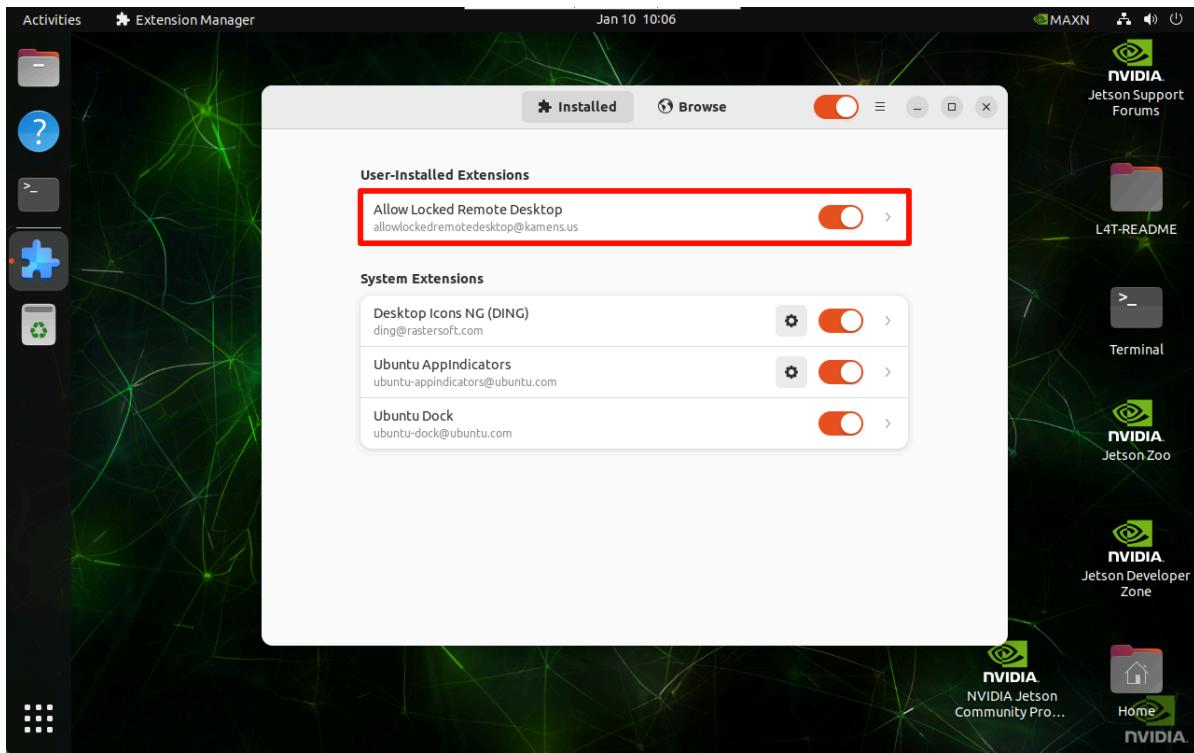
```
gnome-extensions install allowlockedremotedesktopkamens.us.v9.shell-extension.zip
```

```
sudo gnome-extensions enable allowlockedremotedesktop@kamens.us
```



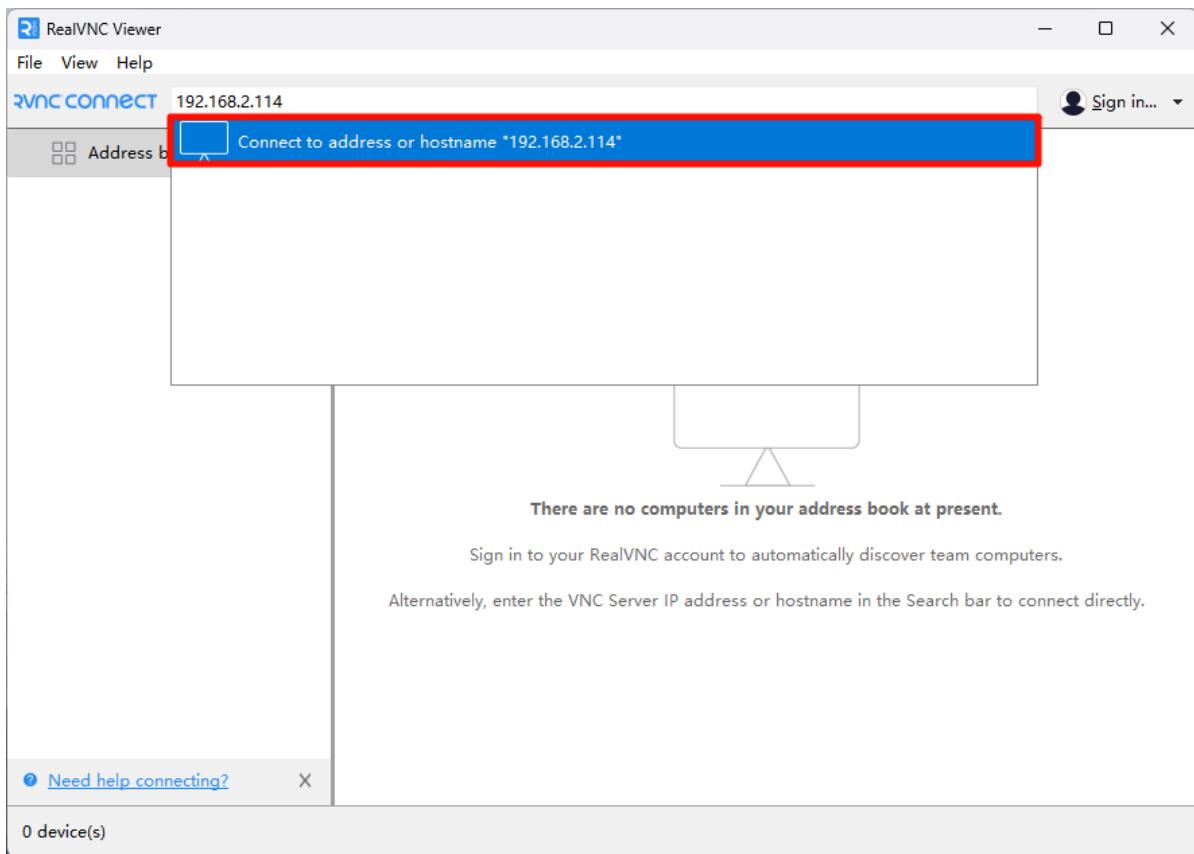
Restart the system: open Extension Manager to enable the corresponding function (find it in the Ubuntu system application)



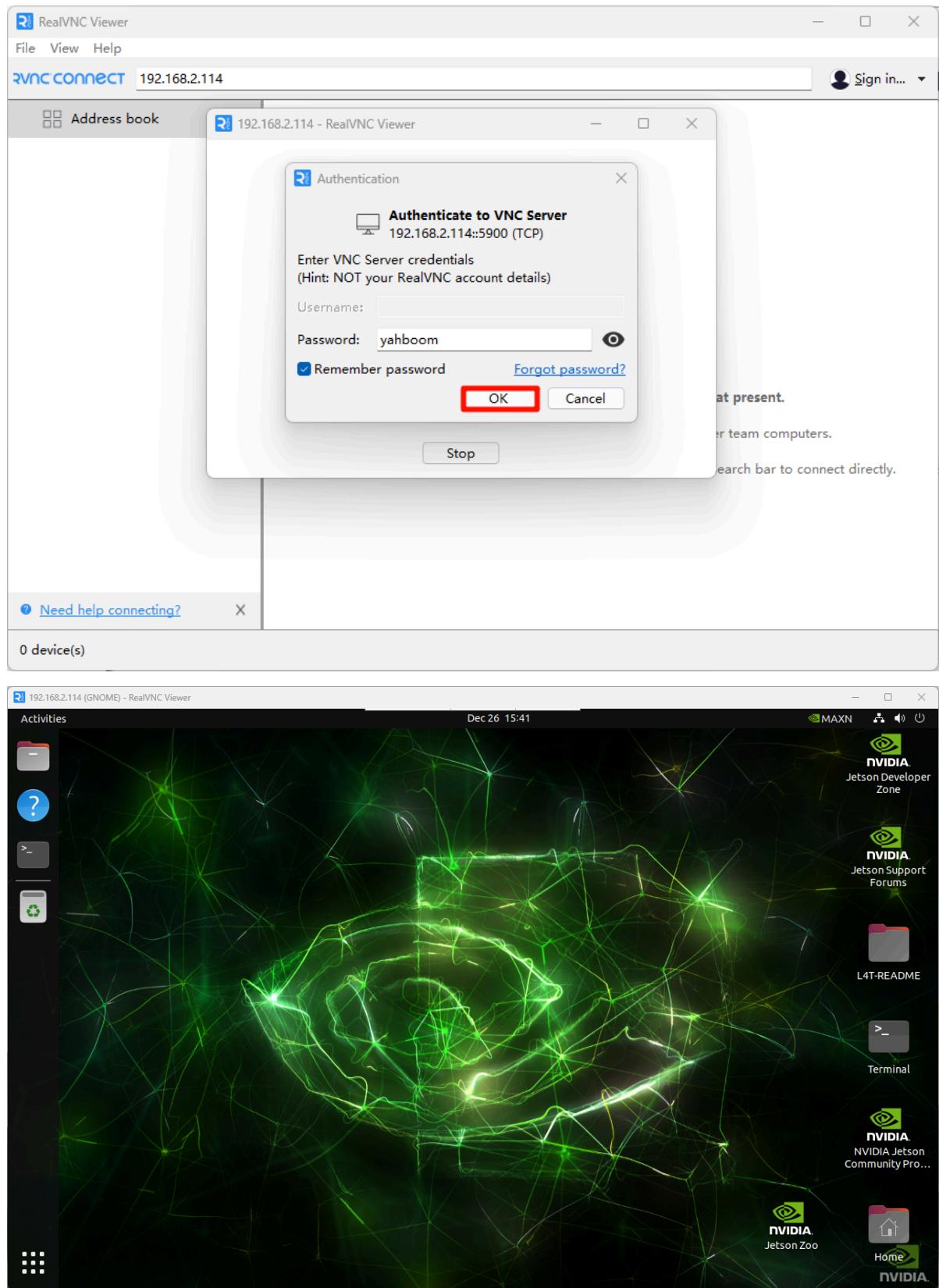


3. VNC remote control

VNC Viewer input motherboard IP:



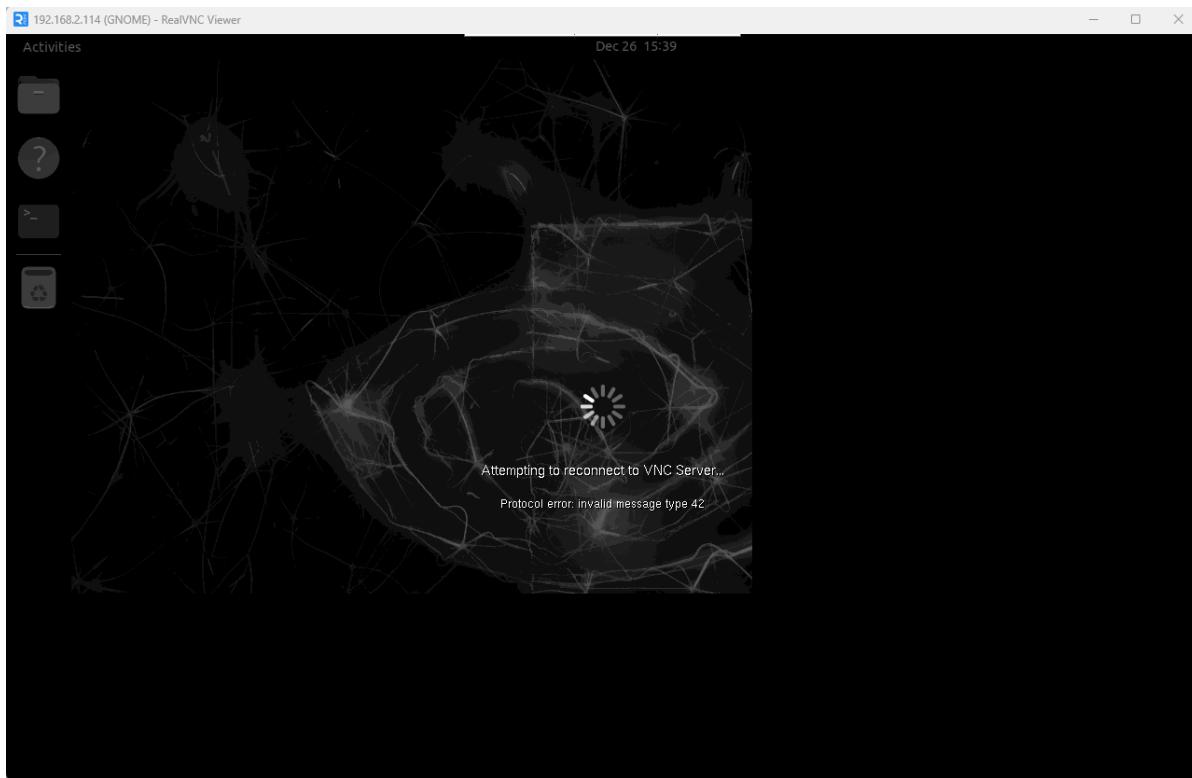
Fill in the motherboard system password:



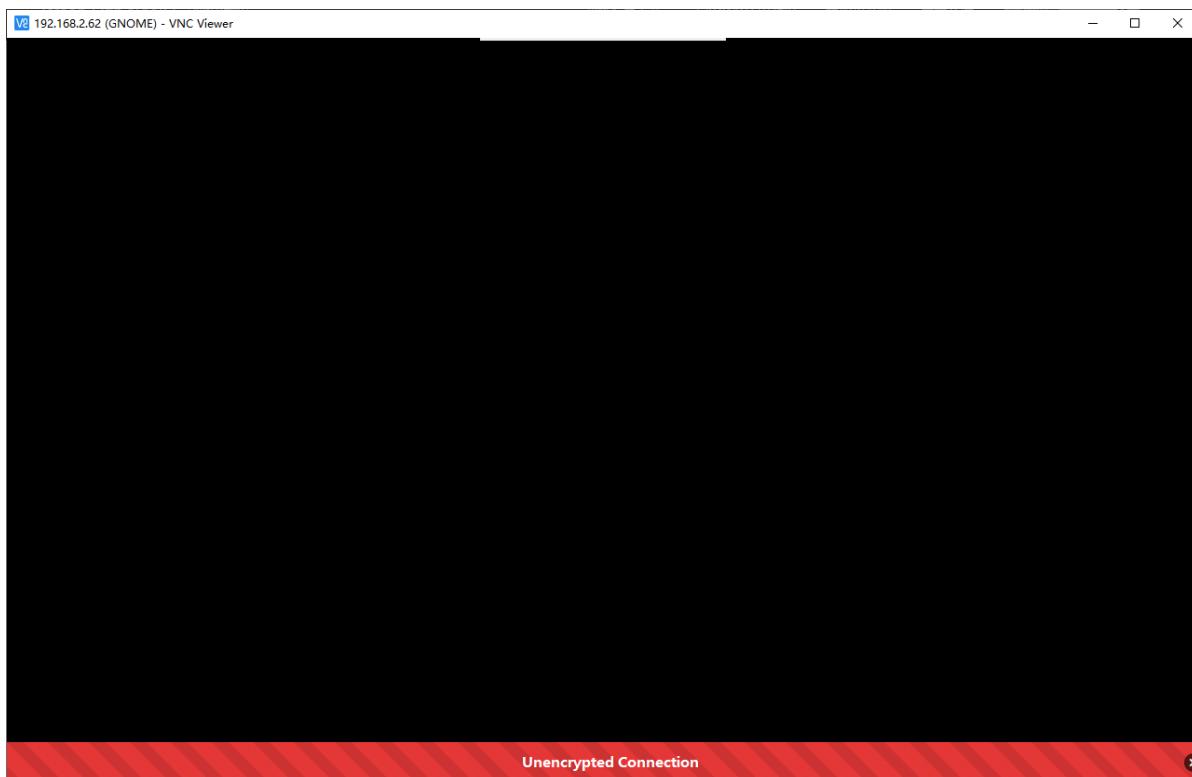
Frequently Asked Questions

VNC Remote Display Reconnection

Reconnection Phenomenon

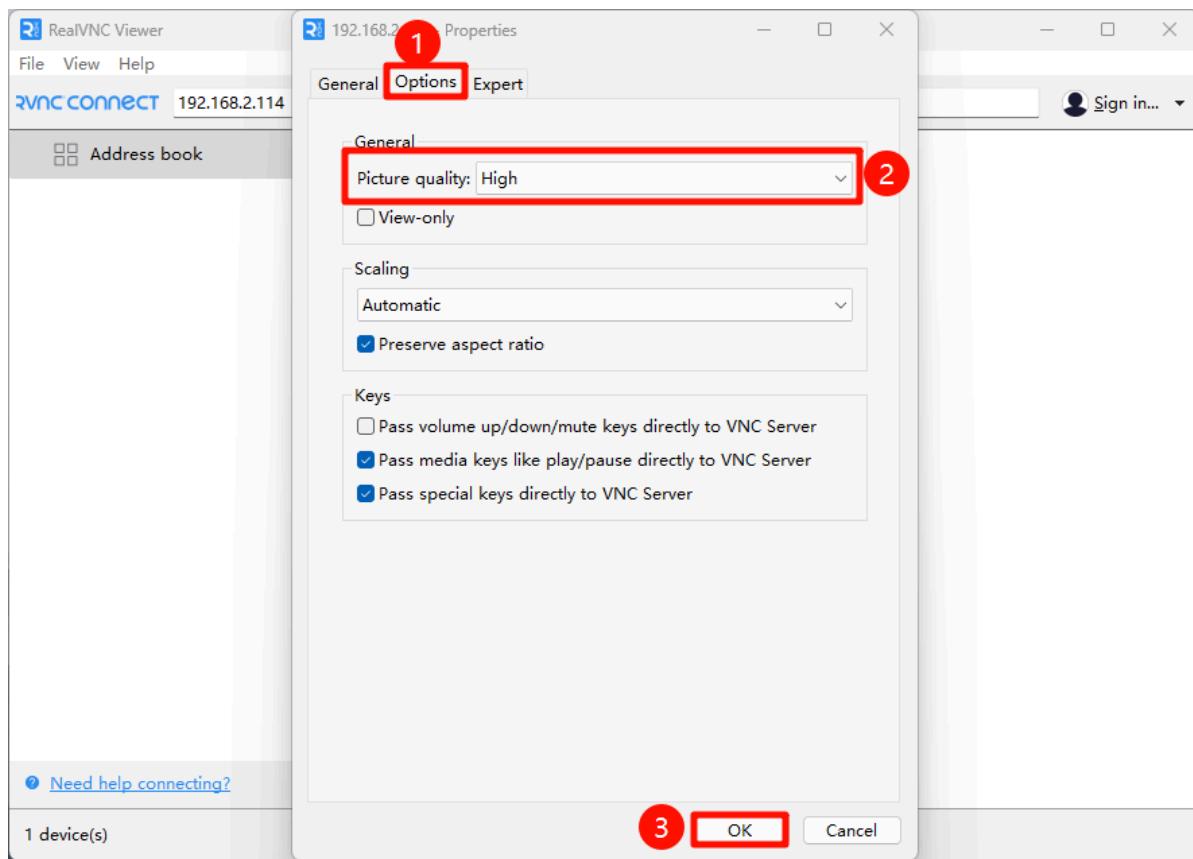
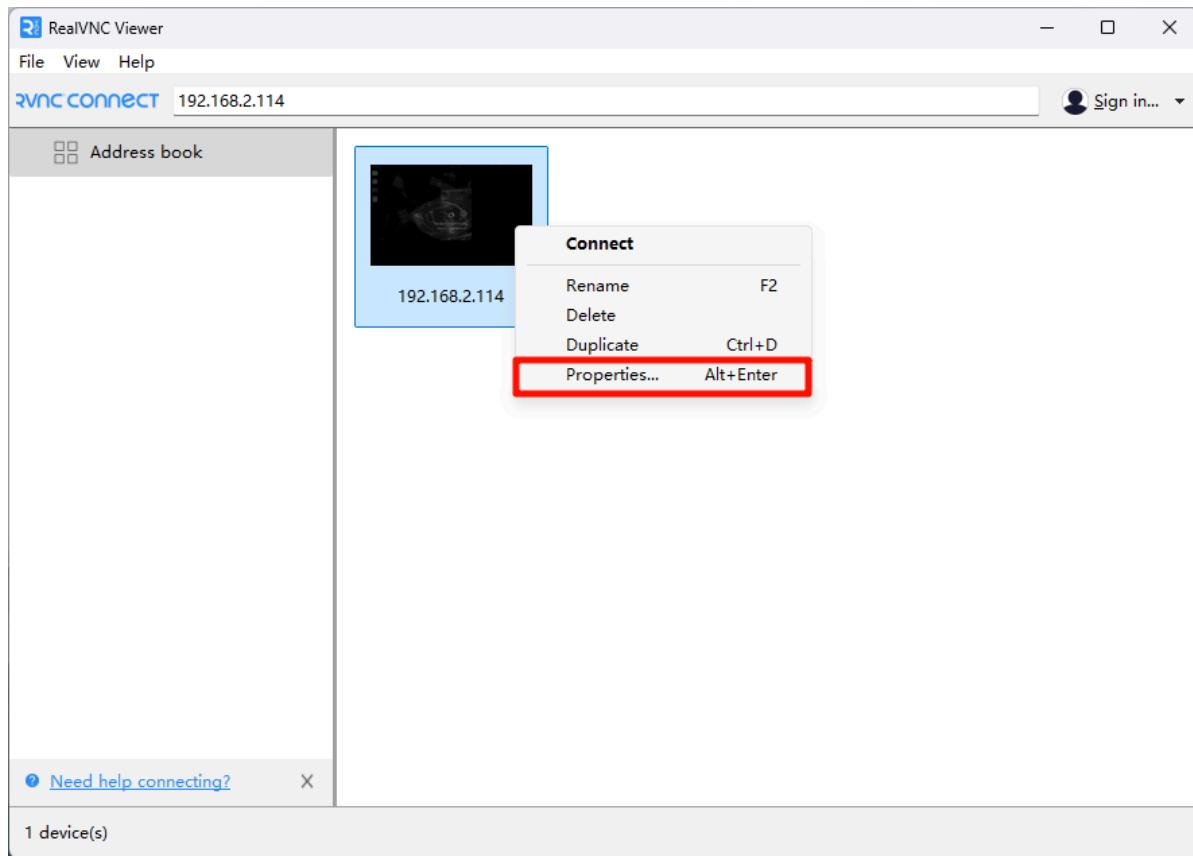


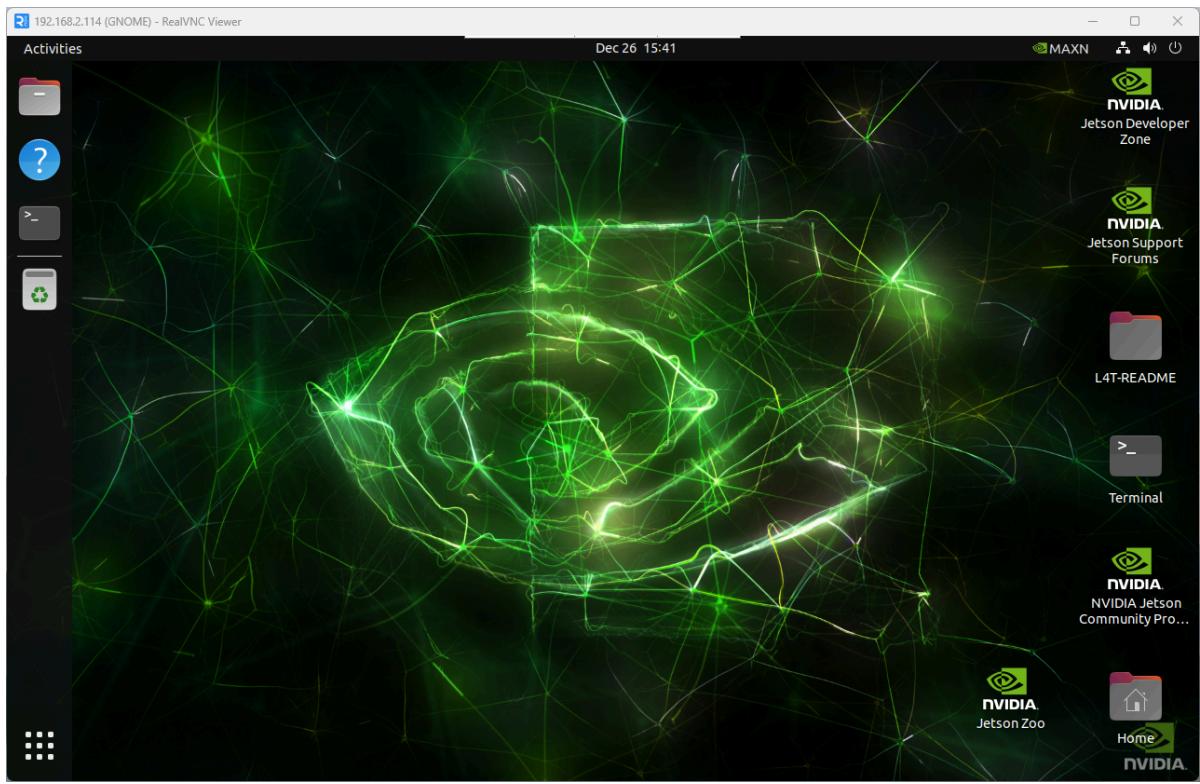
VNC does not display the desktop



Solution

Modify the options of the corresponding remote device → Specify the remote image quality





VNC remote case switching

Enter Settings → Compose Key → Caps Lock: Set to Caps Lock can switch between uppercase and lowercase input

