GL·iNet



User Manual

GL-RM4PE / Comet X

Quad-Port KVM with PoE

Firmware Version 1.10.1

About This Manual

This manual is your go-to resource for getting started with your device, covering basic product information, hardware connections, local and remote access, and detailed instructions for all software features in the Web console.

With this guide, you will be able to:

- Understand key product details
- Complete hardware connections step by step
- Access your KVM and the controlled device locally and remotely
- Understand all software features in the Web console

Format Conventions

These symbols/colors help you follow steps faster.

Convention	What It Means
Underlined teal text	Clickable link which can open a web page or a specific section
Bold text	Emphasize or mark some key information in this document, such as titles, hyperlinks, and exact menu/item names on the device's web interface
>	The path to load the corresponding page (e.g., System > Firmware)
Note	Key information for setup, operations, and safety. Ignoring this might result in setup failure, device malfunction or damage
Tips	Advice to help you use your device better

Note:

- Device features may vary by model and firmware version.
- Product availability is subject to regional differences or ISP specifications.
- All images, procedures, and descriptions in this guide are for illustrative purposes only and may differ from your actual usage experience.

Need More Help or Info?

- Firmware Update: GL.iNet download center
- Community: Discuss our products and share insights at GL.iNet Community Forum
- Technical Support: Contact our Technical Support at Contact page

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Chapter 1

Get To Know Your Device

This chapter covers the device overview, specifications, and package contents.

1.1 Product Overview

Comet X is a quad-port remote KVM with PoE support that connects to up to 4 servers in your rack. Once set up, you can control all connected devices from anywhere via a browser or app, delivering smooth 4K@30fps video without extra software. Its built-in 3.69 inch touchscreen lets you check IP addresses, online status, and active sessions at a glance. It simplifies deployment with PoE power, reducing cable clutter in your server environment. The 64GB eMMC storage also acts as a built-in repository for ISO files, enabling easy OS deployment and emergency recovery.

1.1.1 Appearance

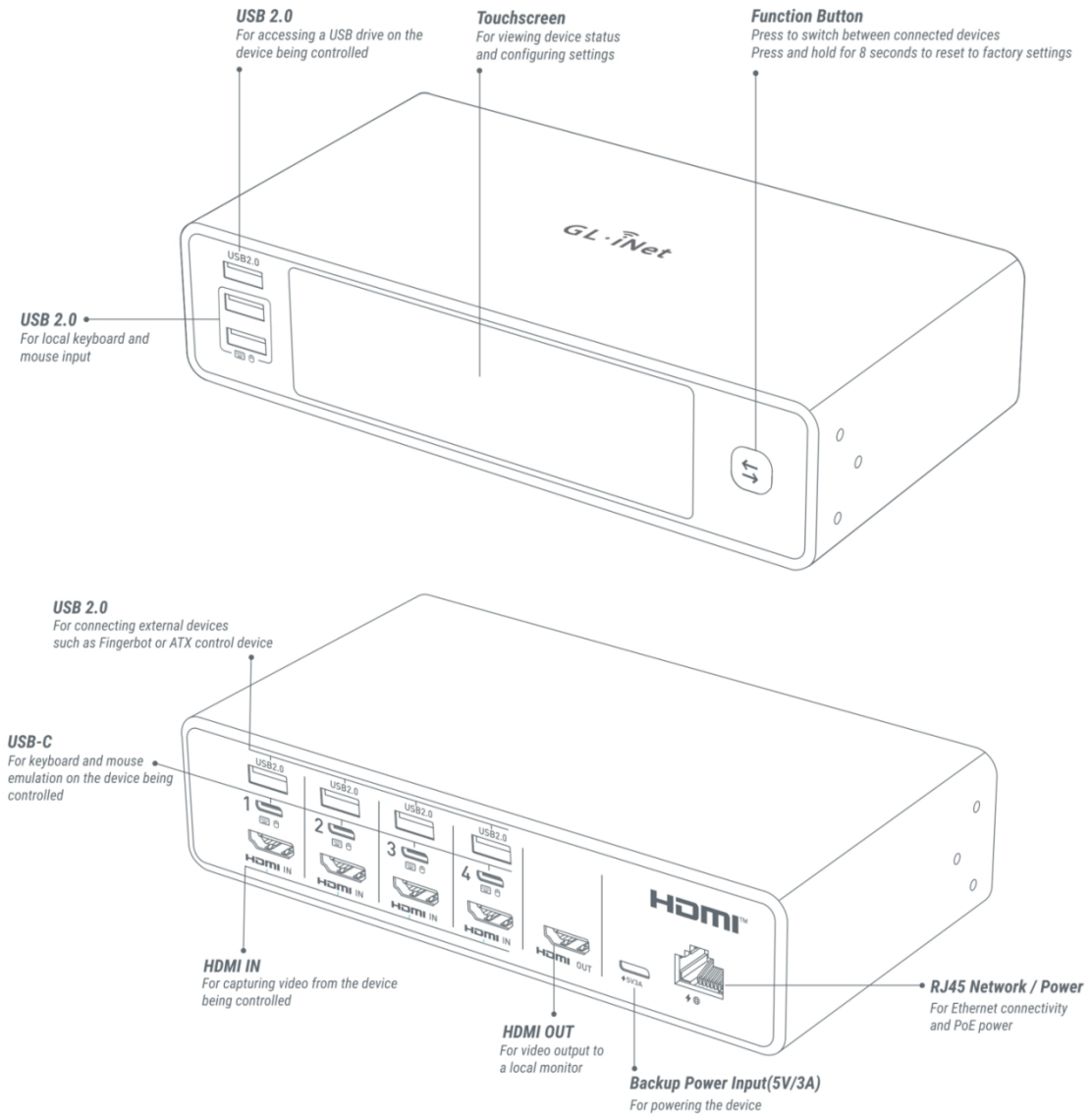








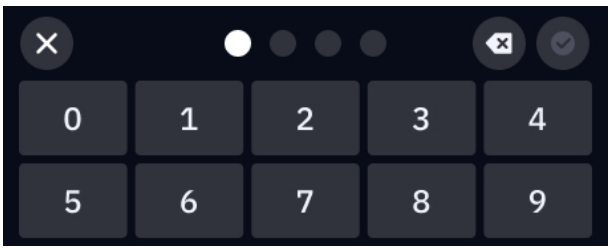
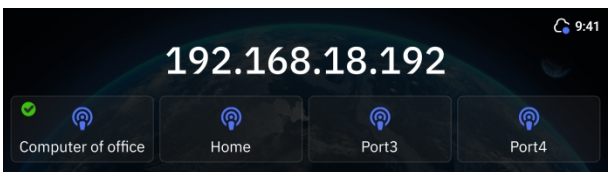
1.1.2 Interface and Button

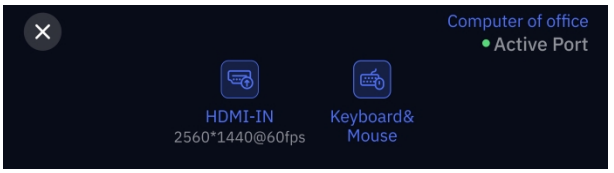
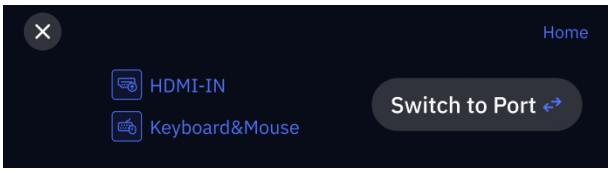
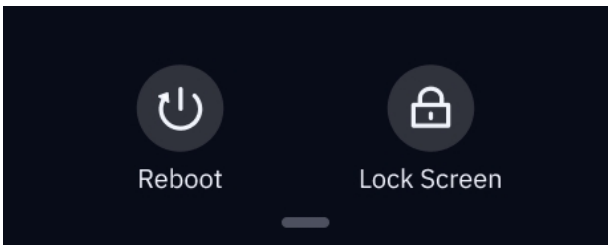
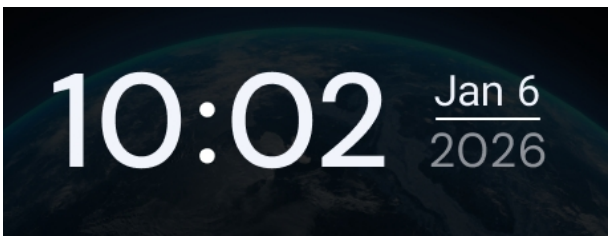
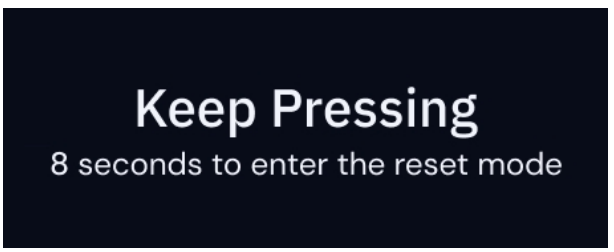


Item	Description
Backup Power Input(5v/3A)	Connects to the power adapter.
RJ45 Network / Power	Connects to an Ethernet outlet or PoE power.
HDMI IN	Connects to the controlled device via an HD cable for video signal transmission.
HDMI OUT	(Optional) Connects to a display via an HD cable to output the video signal from the controlled device.

USB-C	Connects to the controlled device via a Type-C cable for keyboard & mouse signal transmission.
USB 2.0	Connects to an accessory (e.g., Fingerbot or ATX board) via a USB wireless receiver for remote power control.
Function Button	Press to switch between connected devices
	Press and hold for **8 seconds** and then release to reset the device to factory default.

1.1.3 Touchscreen

Screen Display	Description
	**Starting up** Power on your Comet X. The GL.iNet logo appears, followed by a startup progress bar. Once the progress bar is fully loaded, the device startup is complete.
	**Set up screen password** Set a screen password for your Comet X to protect your privacy.
	**Home screen** **Top-right**: Cloud status and system time. **Middle**: Device IP address, shown only when it connects to Internet. **Bottom**: Four ports corresponding to four signal sources. Blue indicates a physical connection; Green checkmark indicates that this port is in use.

	**Active Signal Port** On the home screen, tap an active port to view HDMI resolution, keyboard, and mouse signal status.
	**Switch Signal Port** On the home screen, tap an inactive port to view HDMI, keyboard, and mouse signal status, or switch to this port as the signal source.
	**Basic settings** On the home screen, swipe left from the right to access basic settings, including **Screen Display**, and **Cloud Service**.
	**System Menu** On the home screen, swipe down from the top to access system menu, including **Reboo**t and **Lock Screen**.
	**Lock screen** The lock screen displays the time and date.
	**Factory Reset** With the KVM powered on, insert a pin into the reset pinhole and hold for 8 seconds to factory reset. Release the pin within 8 seconds to cancel the reset.

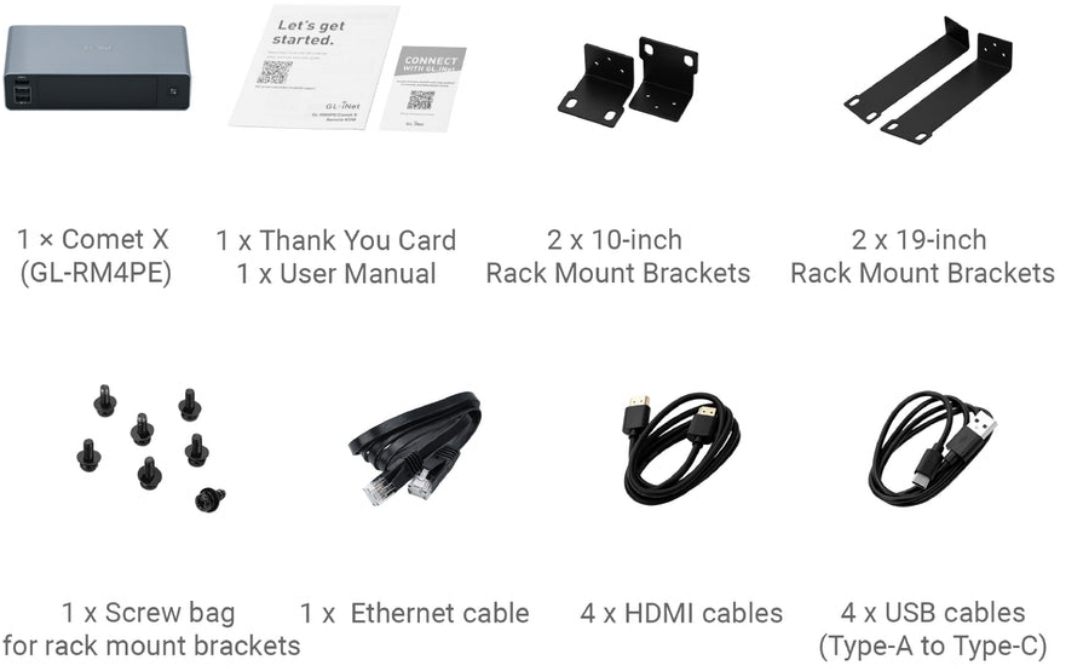
1.2 Specifications

Interface	3 x Front USB 2.0 Type-A Ports (For local keyboard, mouse, and USB device access) 4 x Rear USB 2.0 Type-A Ports (For connecting peripherals and other accessories) 4 x USB 2.0 Type-C Device Ports (For connection to host computers) 4 x HDMI IN 1 x HDMI OUT 1 x 1 Gbps (802.3af/at PoE support) 1 x USB-C Power Port (Optional 5V/3A, PD-compatible) 1 x Function Button
Operating System	Linux-6.1
CPU	Quad Core ARM Cortex-A53
Memory / Storage	DDR3L 1GB / eMMC 64GB
Display Screen	3.69 inch, TFT touchscreen
Ethernet Port	1 x RJ45
Ethernet Speed	10/100/1000Mbps
Resolution	4K@30fps
Power Input	Ethernet (PoE) USB-C (Optional 5V/3A, PD-compatible)
Dimension / Weight	170 x 90 x 40 mm / 560g
Rack Mounting	Compatible with 10-inch and 19-inch racks; brackets for both sizes included
Other Tools	Datasheet / Firmware / App / Tutorials

1.3 Package Contents

The package includes:

- 1 x Comet X (GL-RM4PE)
- 1 x User manual
- 1 x Thank you card
- 2 x 10-inch Rack Mount Brackets
- 2 x 19-inch Rack Mount Brackets
- 1 x Screw bag for rack mount brackets
- 1 x Ethernet cable
- 4 x HDMI cable
- 4 x USB cable (Type-A to Type-C)



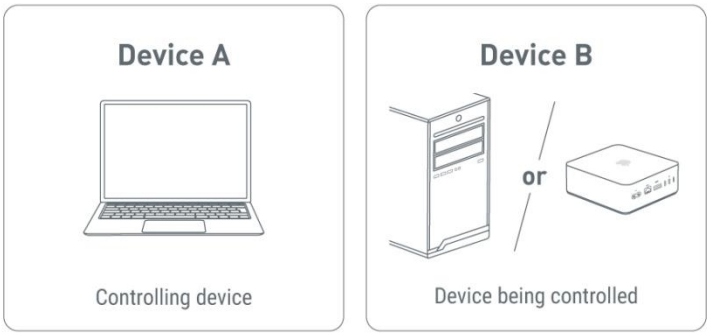
Chapter 2

Hardware Connection

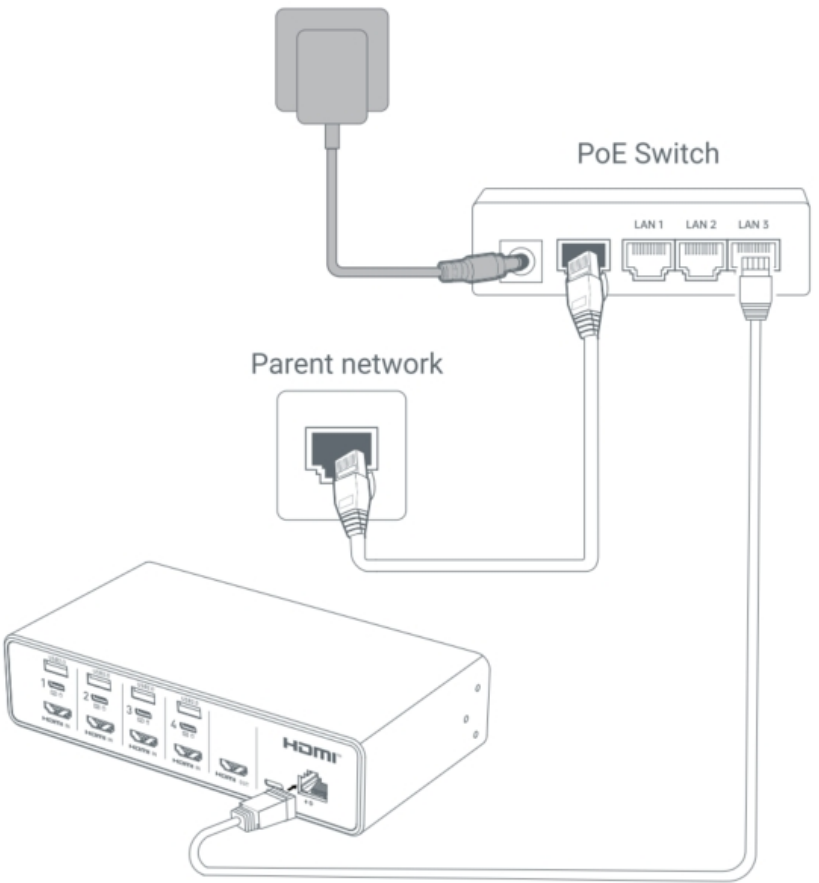
This chapter describes the basic steps to connect the KVM and related devices, as well as rack mounting and local control.

2.1 Connect Devices

For clarity, Device A refers to the controlling device, and Device B the controlled device.

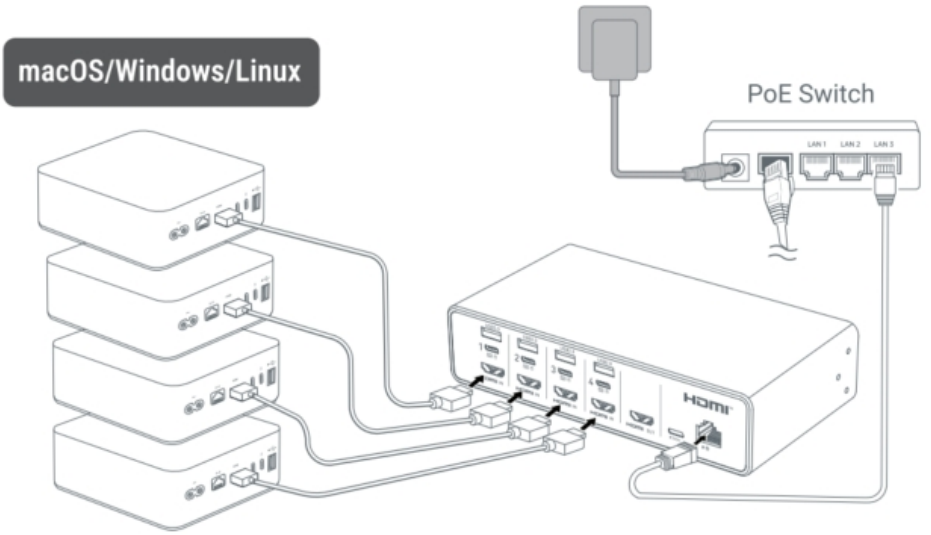


1. Connect the Comet X to a PoE switch using an Ethernet cable, or power it with a 5V/3A power adapter.

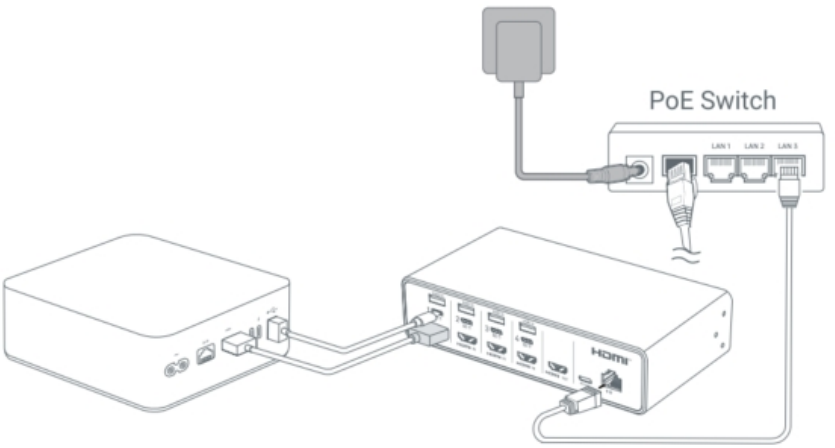


Note: If using a power adapter for power supply, connect the Comet X to a network device (such as router) via an Ethernet cable for Internet access.

2. Connect the Comet X's **HDMI IN** port to Device B using an HDMI cable. This enables video signal transmission.



3. Connect the Comet X's **USB-C** port to Device B using a USB cable. This USB-C port must pair with the corresponding HDMI IN port for proper keyboard and mouse signal transmission.

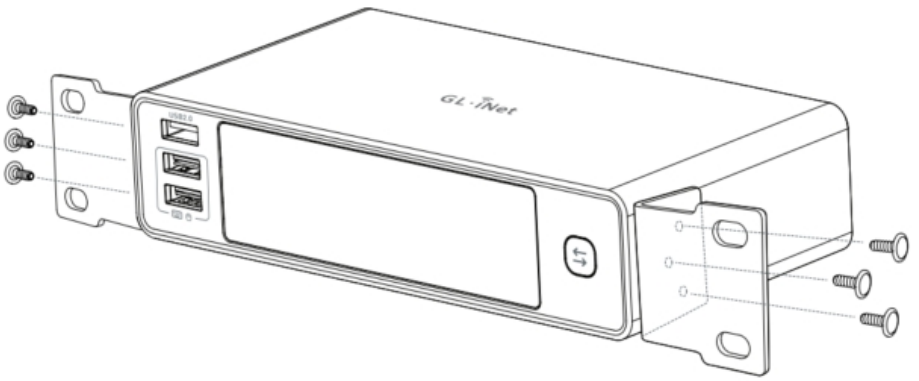


4. (Optional) Connect the Comet X's **HDMI OUT** port to an external monitor to duplicate the display (video loopout). See Local Control for details.
5. Connection complete. Now you can access the Comet X's console locally or remotely.

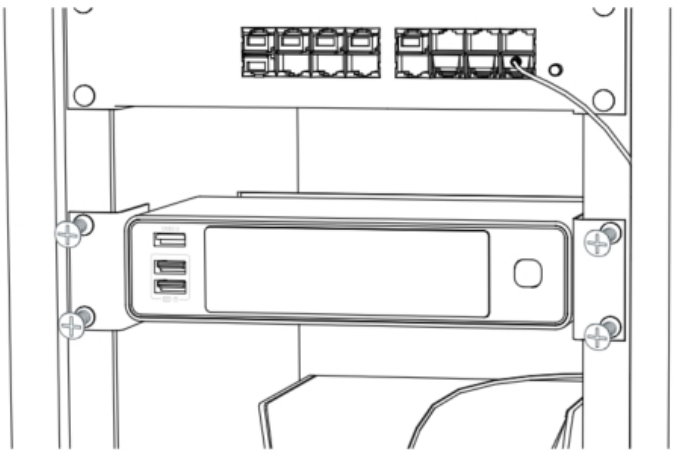
2.2 Rack Mounting

Mount Comet X onto server rack rails as needed.

1. Use the included screws to attach the mounting brackets to Comet X.



2. Secure Comet X to the rack rails with rack screws. Rack screws are not included.

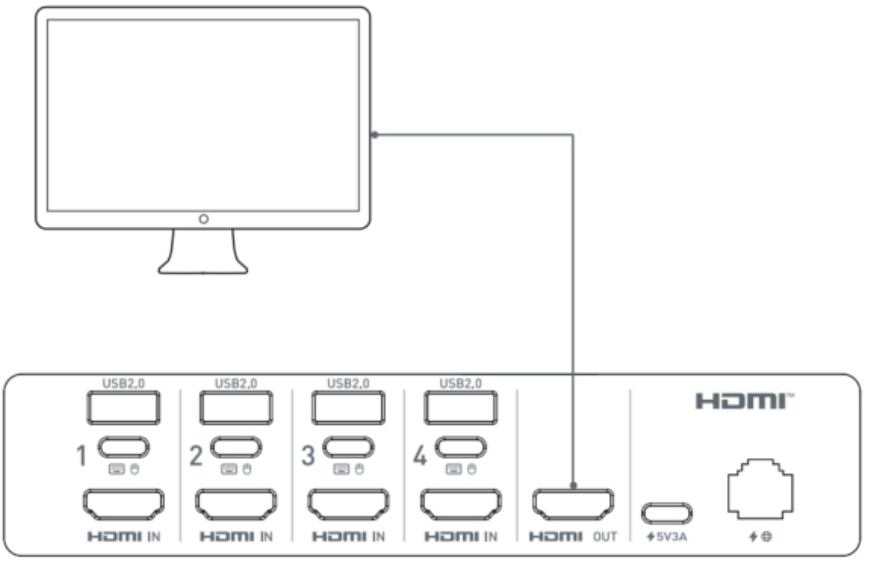


2.3 Local Control

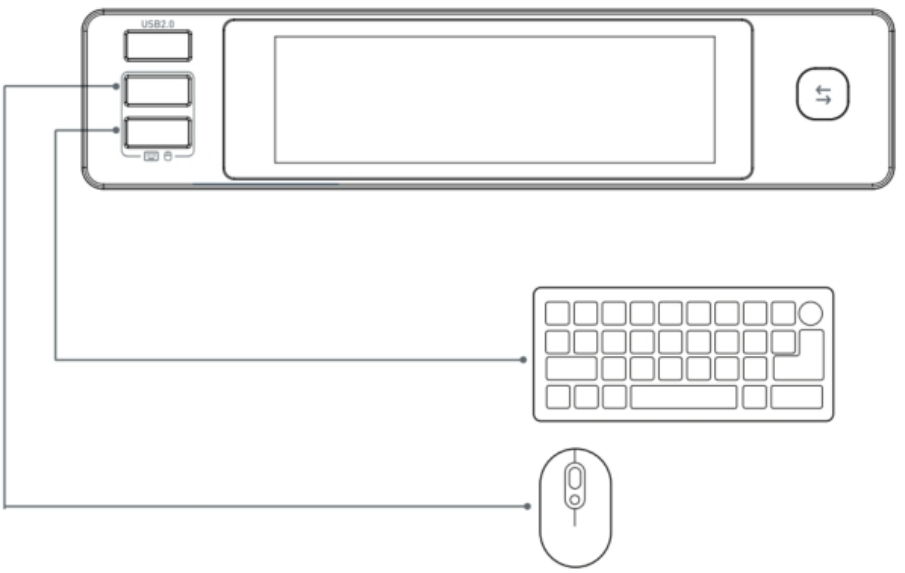
Control the device directly via physical cables, no network, IP address or domain name required.

Comet X features an HDMI OUT port and two extra USB ports, ideal for local troubleshooting, configuration and OS installation. Simply connect your monitor, mouse and keyboard for plug-and-play local hardware control.

1. Connect the HDMI OUT port on Comet X's rear panel to an external monitor to duplicate the display (video loopout).



2. Connect a keyboard and mouse to Comet X's USB ports on the front panel.



3. You can now control the connected device(s) with your local keyboard and mouse, while video signals are looped out to the local monitor.

Chapter 3

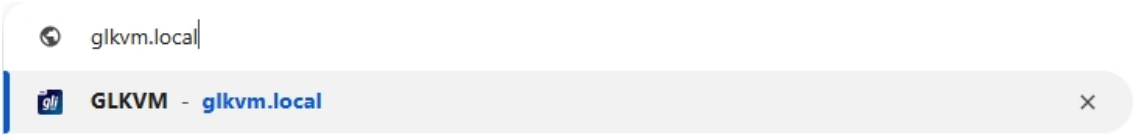
Local Access

This chapter guides you to access your KVM locally via a domain name or an IP address.

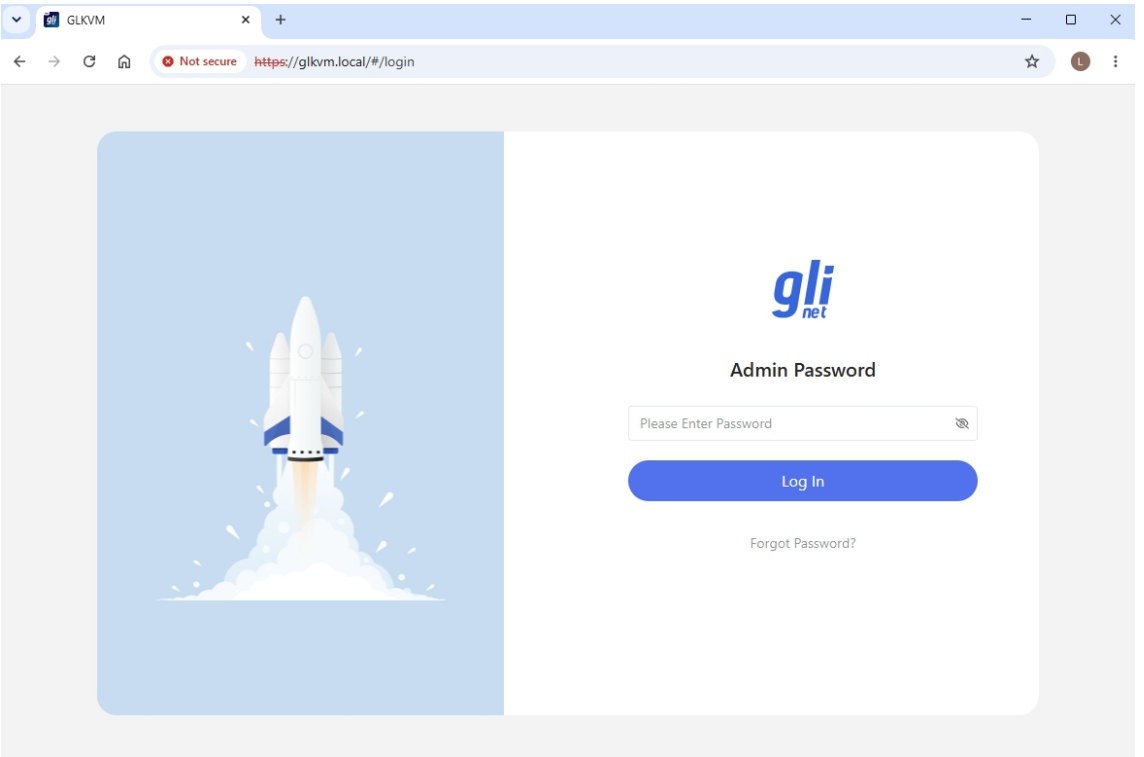
There are two ways to access Comet X from the local network: via domain name or IP address.

3.1 Domain

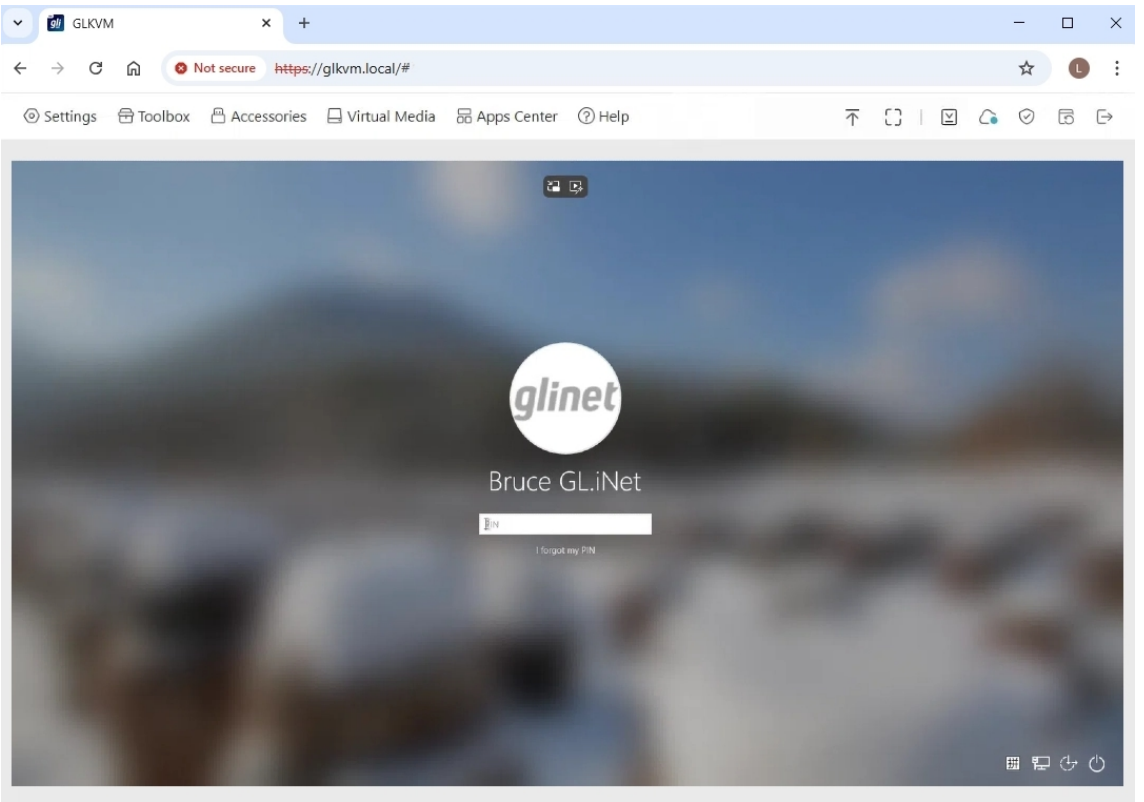
1. Ensure your controlling device is on the same LAN as Comet X.
2. Launch a browser on the controlling device. Chrome or Edge is recommended for better compatibility.
3. Enter *glkvm.local* in the address bar.



4. You will be directed to the GLKVM login page. Enter the admin password. You may set up your admin password when accessing for the first time.

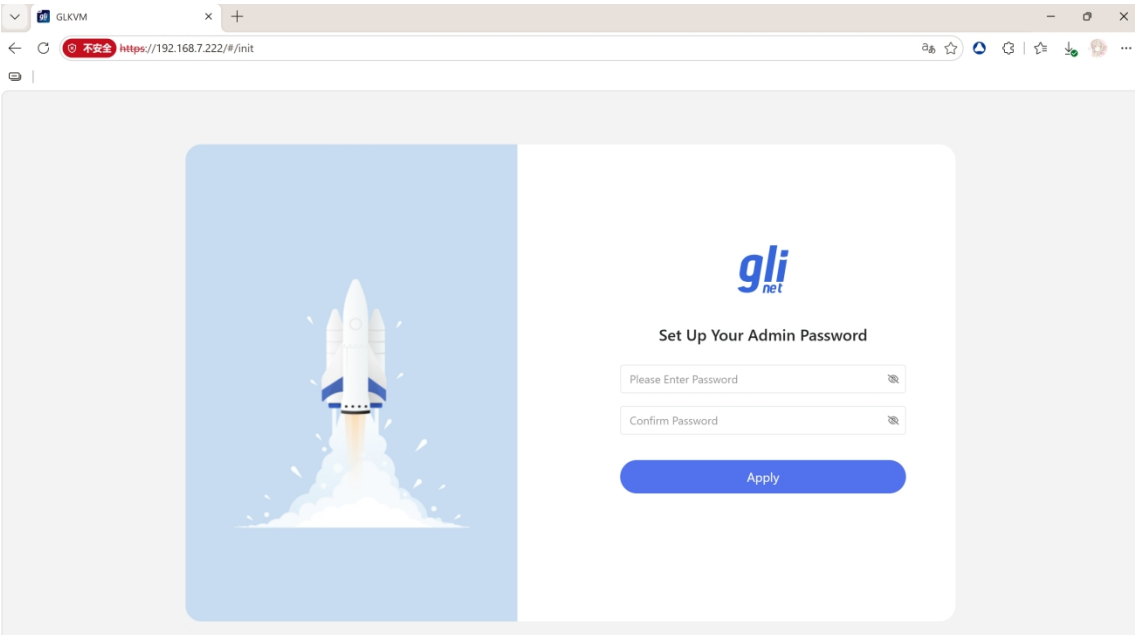


5. You will then access the Comet X's console locally and gain access to the controlled device.


GLKVM
Not secure
https://glkvm.local/#
Settings
Toolbox
Accessories
Virtual Media
Apps Center
Help
glinet
Bruce GL.iNet
PIN
I forgot my PIN

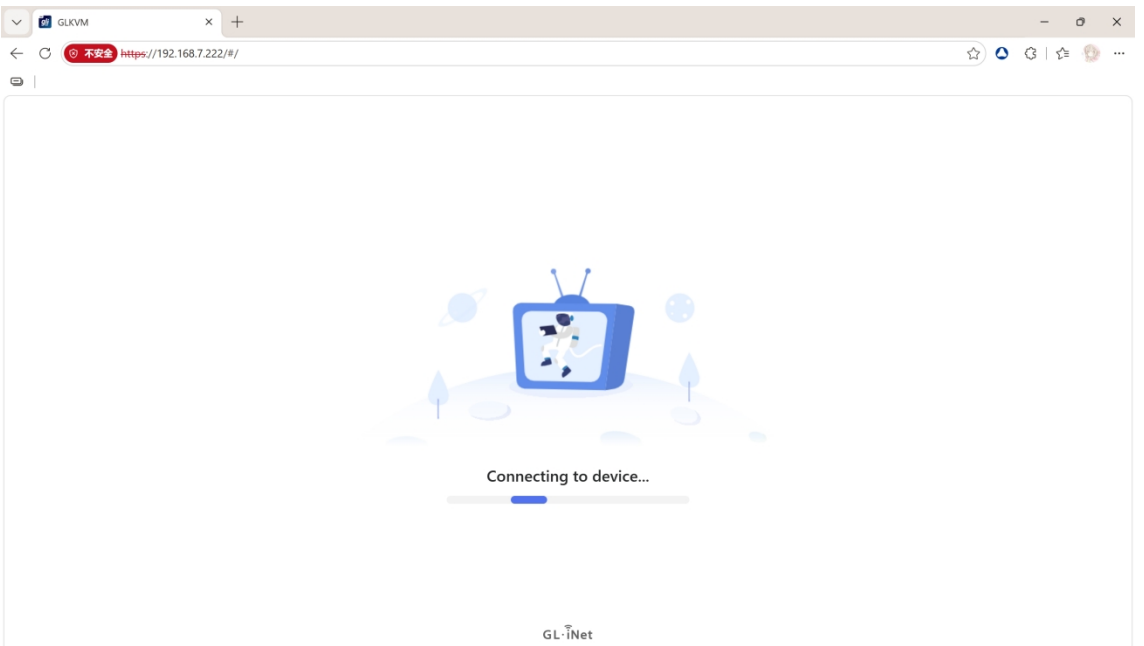
3.2 IP Address

1. Find Comet X's IP address on the touchscreen. In this example, the Comet X's IP address is 192.168.7.222.
2. Launch a browser and enter this IP in the address bar. You will be directed to the GLKVM login page. Enter the admin password.



Note: You will need to set up your admin password when accessing for the first time.

3. You can then access the Comet X's console locally and gain access to the controlled device.



Chapter 4

Remote Access

This chapter introduces multiple ways to access your KVM remotely.

4.1 Cloud Service

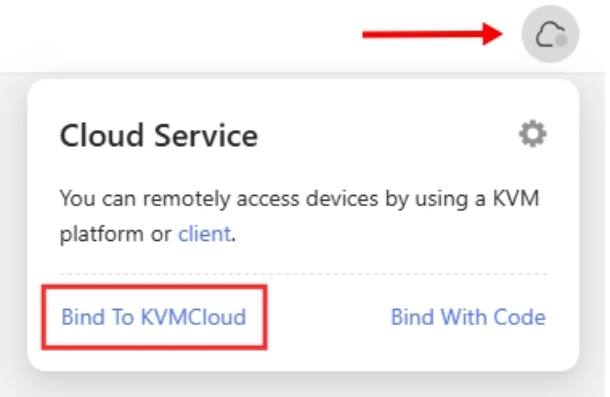
4.1.1 Bind Device

Bind your KVM device to the Cloud. **This needs to be done on the local network.**

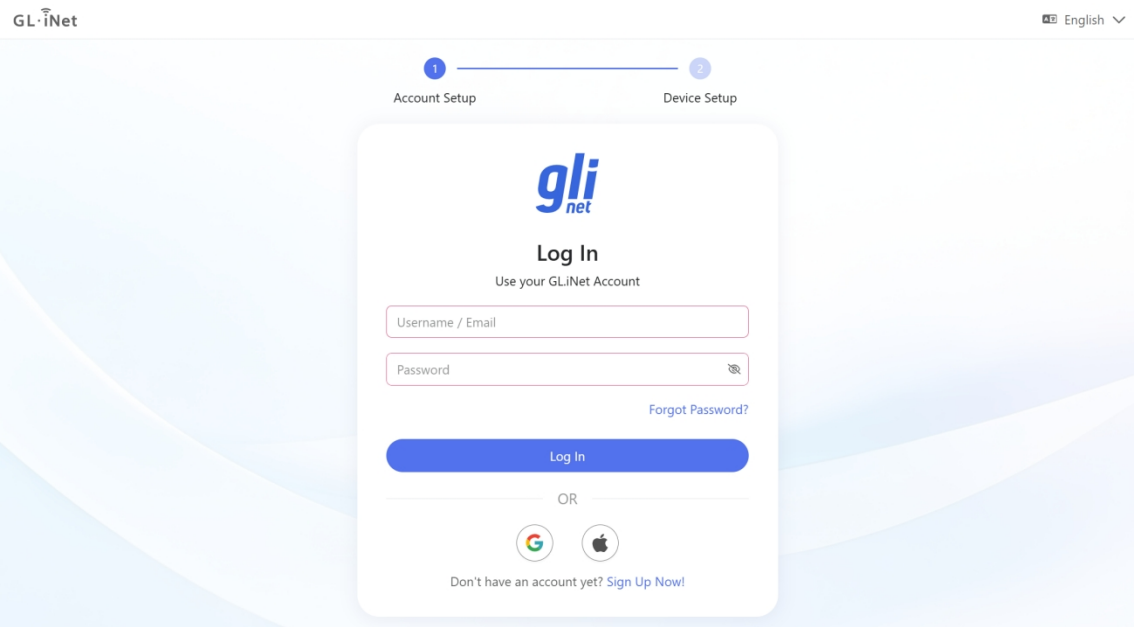
You can bind your KVM to the Cloud via regular steps or via dynamic code.

Here we take the regular steps as an example. If you prefer Dynamic Code Binding, click here for details.

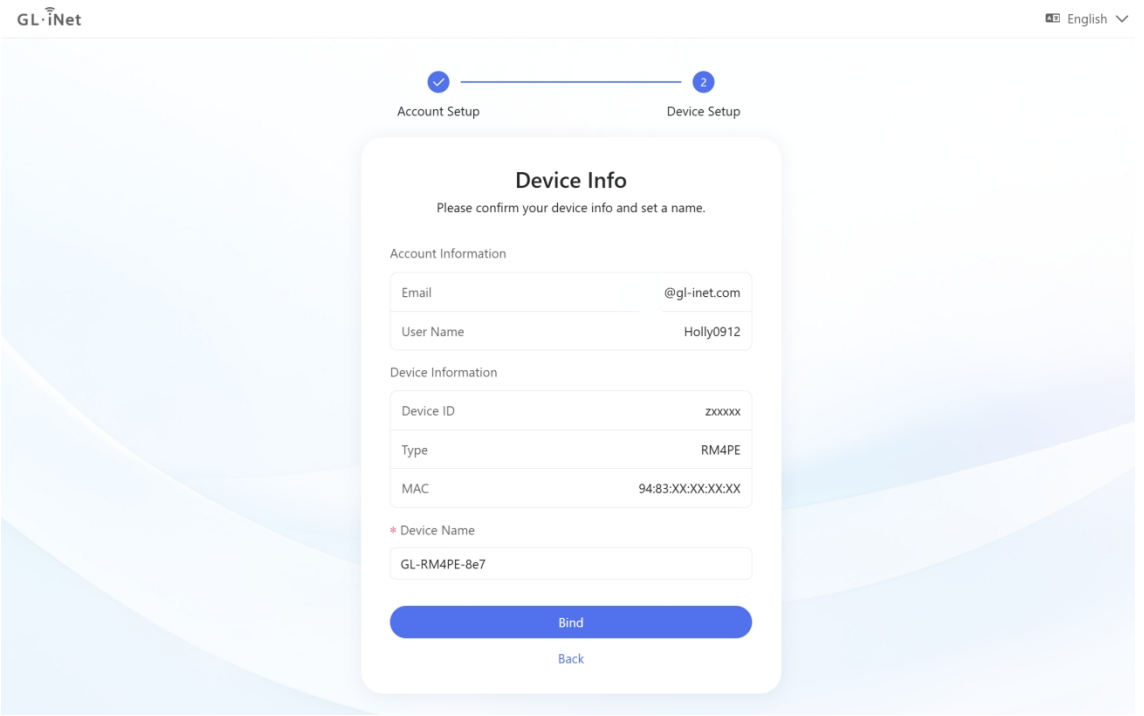
1. Log in to your KVM console locally and navigate to **Cloud Service** in the upper right corner. Click **Bind To Cloud**.



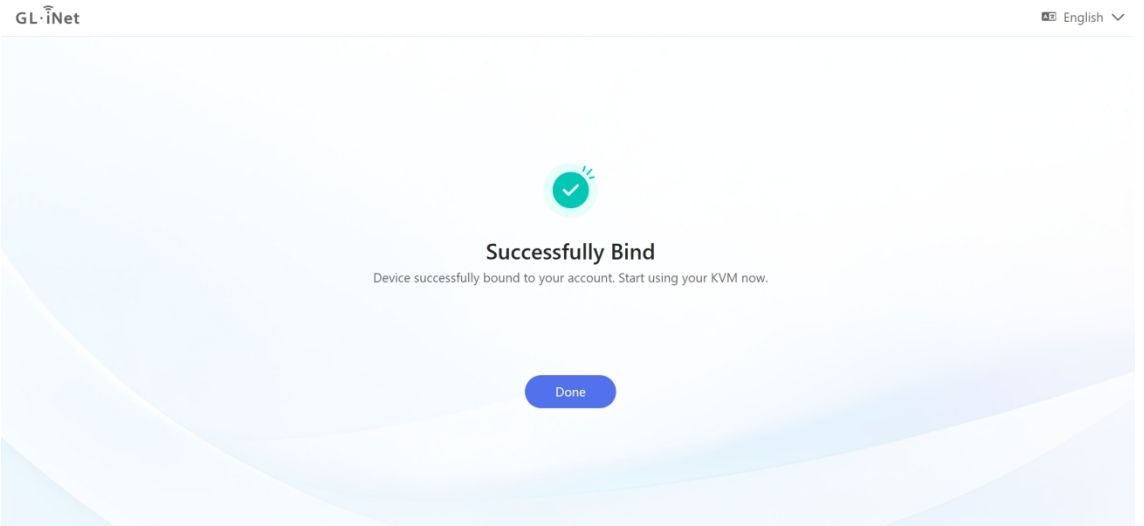
2. You will be redirected to a login page. Log in with your glinet cloud account.



3. Confirm your device info, and click **Bind**.

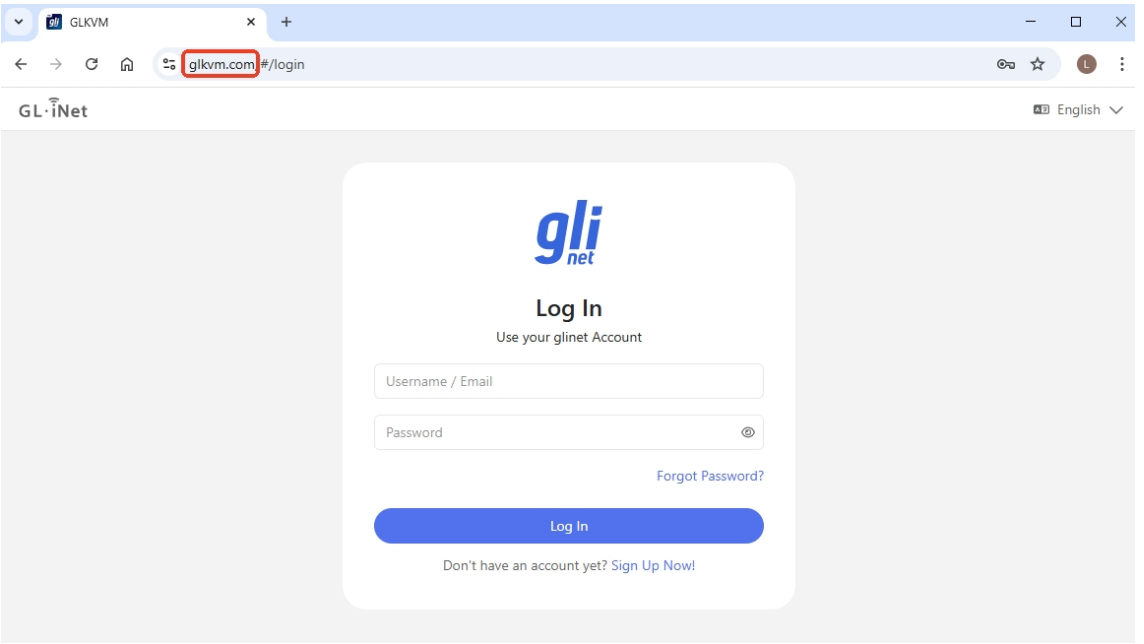


4. Wait a second and your device will be bound to your account successfully.

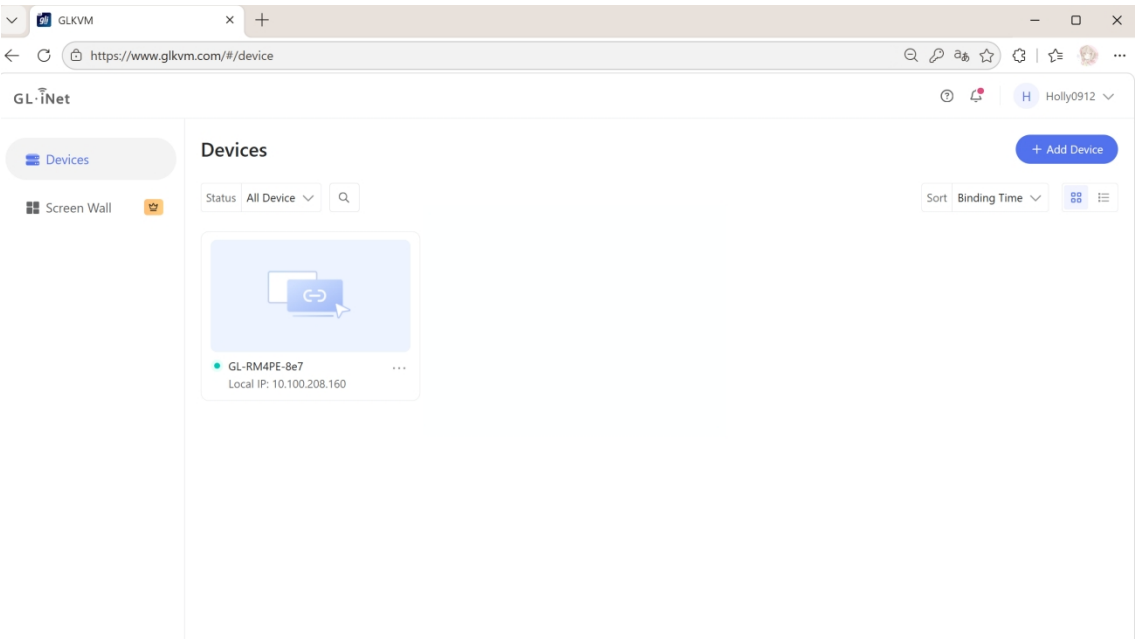


4.1.2 Remote Access via Cloud

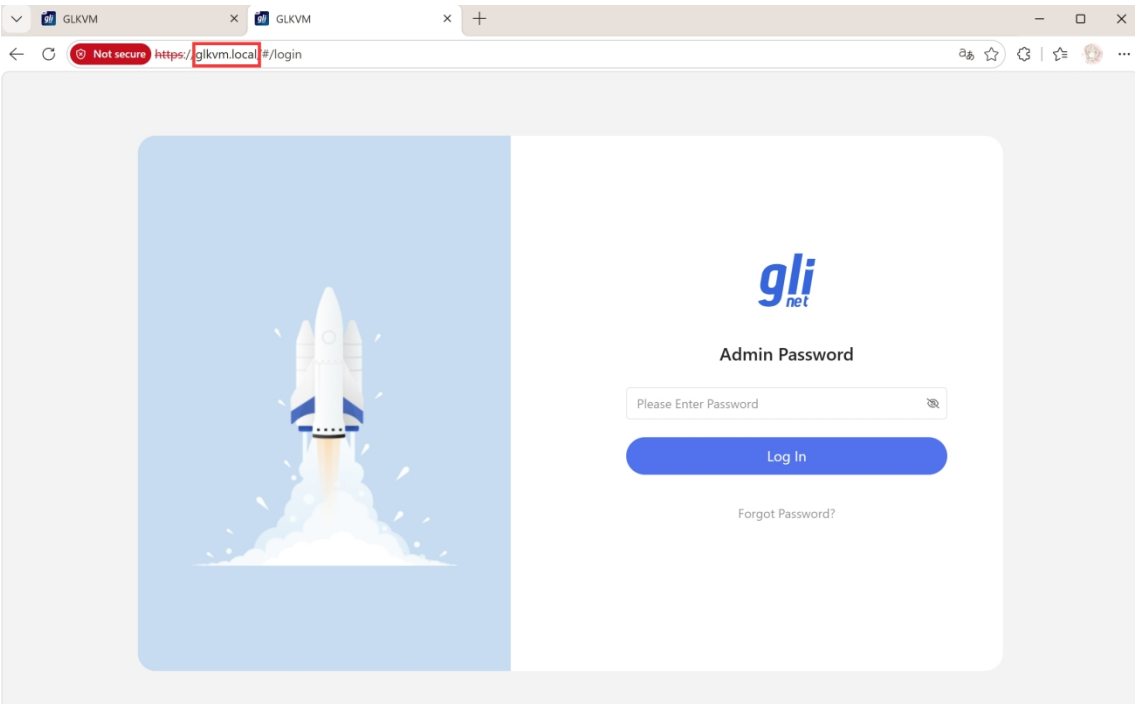
1. Open a browser (take Google Chrome as an example), and enter *glkvm.com* in the address bar. You will see a login page. Use your glinet account to log in.



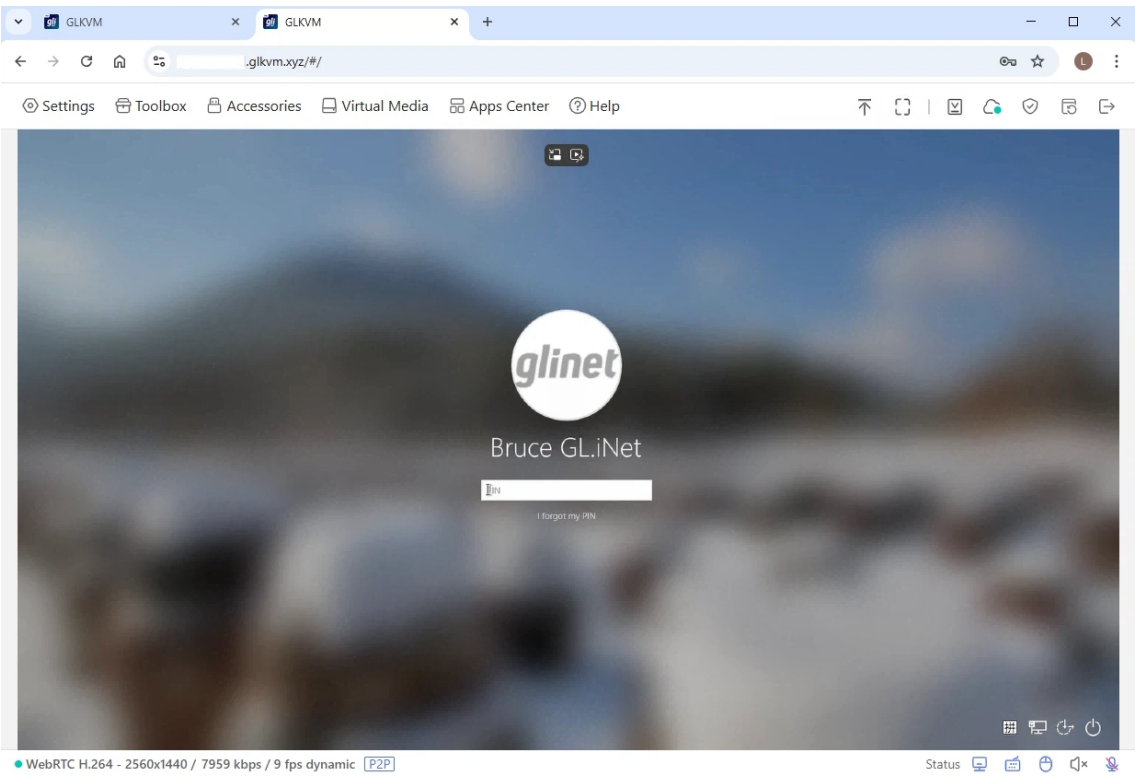
2. After logging in, you will see the devices bound to your account. Click on the device you want to remotely access.



3. In the newly opened webpage, enter your admin password to log in.



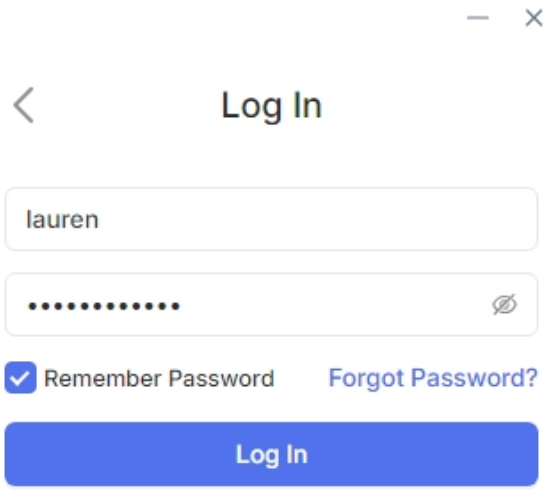
4. You will then be able to remotely access the KVM and the controlled device via Cloud, without installing the app.



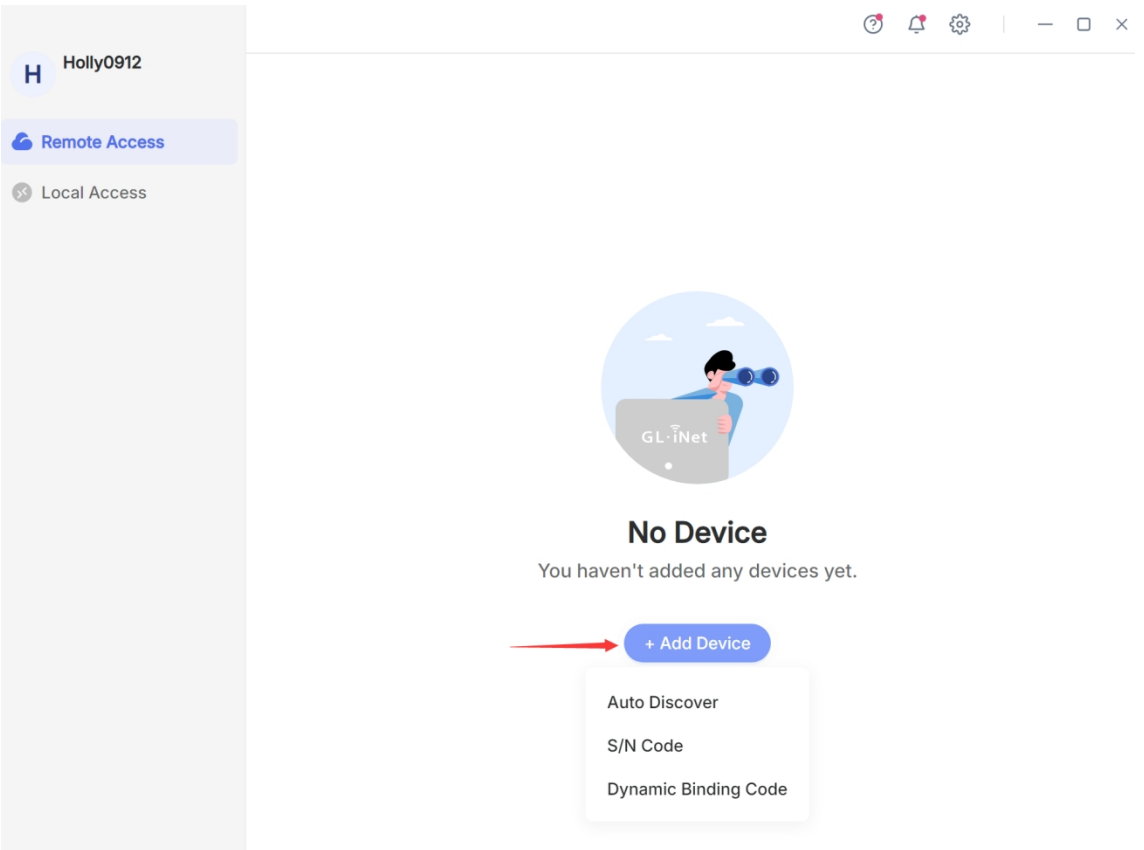
4.2 GLKVM App

4.2.1 Bind Device

1. Install the GLKVM App on your controlling device.
2. Log in with your GL.iNet account. If you don't have one, sign up first and log in.



3. After logging in, click **Add Device**.

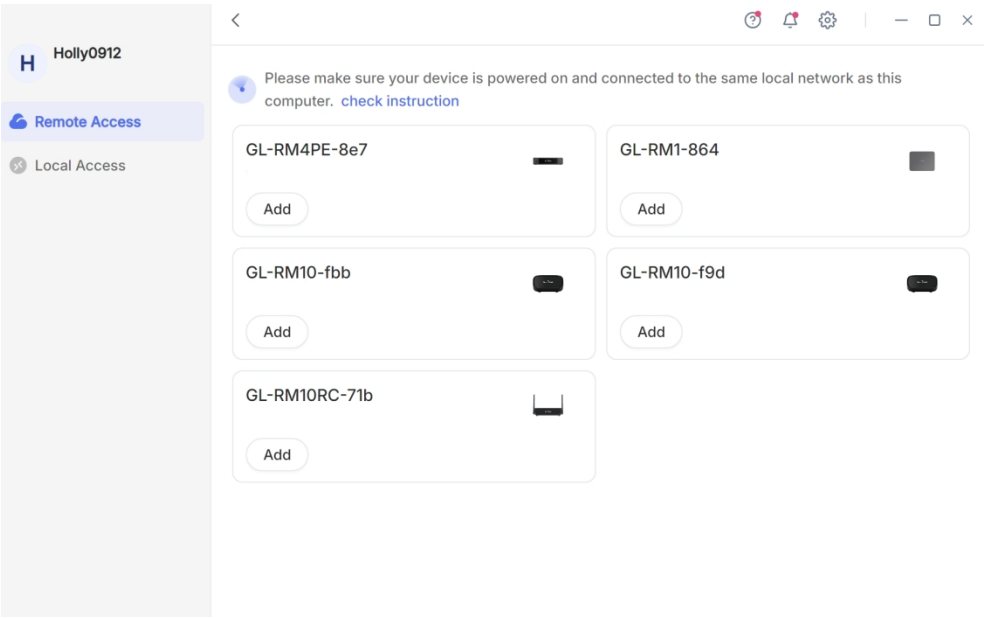


4. Bind your device in three ways: Auto Discover, S/N Code, and Dynamic Binding Code.

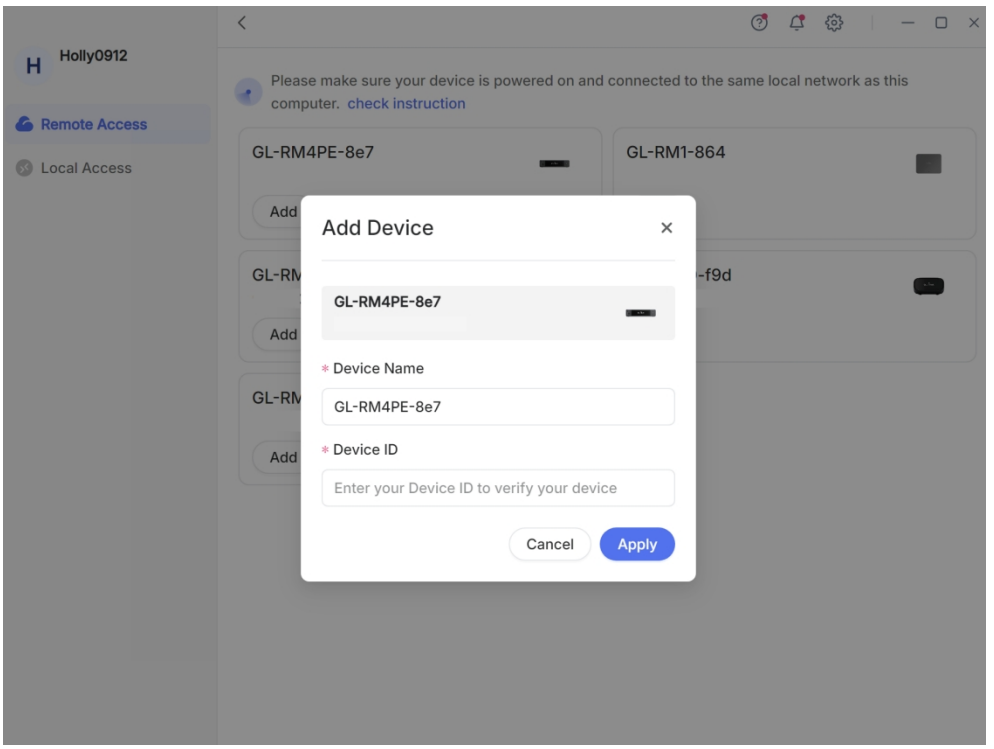
(1) **Auto Discover**

Ensure your controlling device is on the same LAN as Comet X.

Click **Auto Discover**. It will start searching automatically.



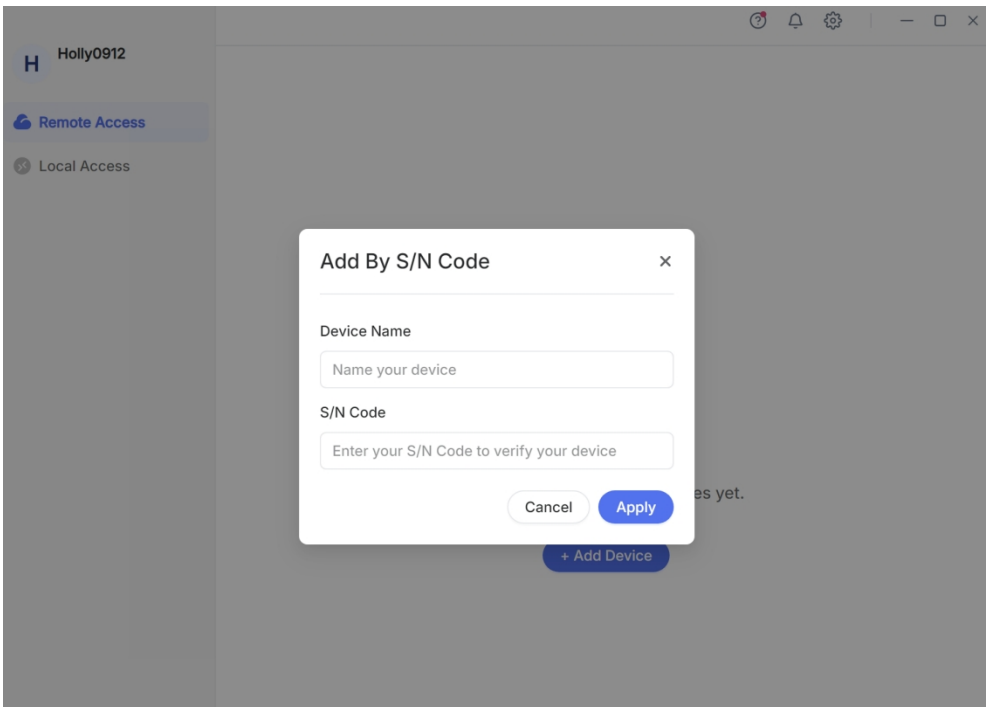
Find your KVM and enter its **Device ID** to bind it to your account.



(2) **S/N Code**

This applies to the scenario where your KVM is not detected, or is not on the same LAN, but you have its serial number (S/N).

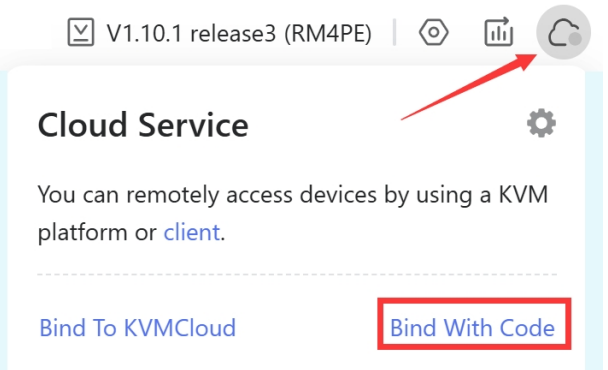
Click **S/N Code**. In the pop-up window, customize the device name and enter the S/N, which is printed on the label bottom of your KVM device.



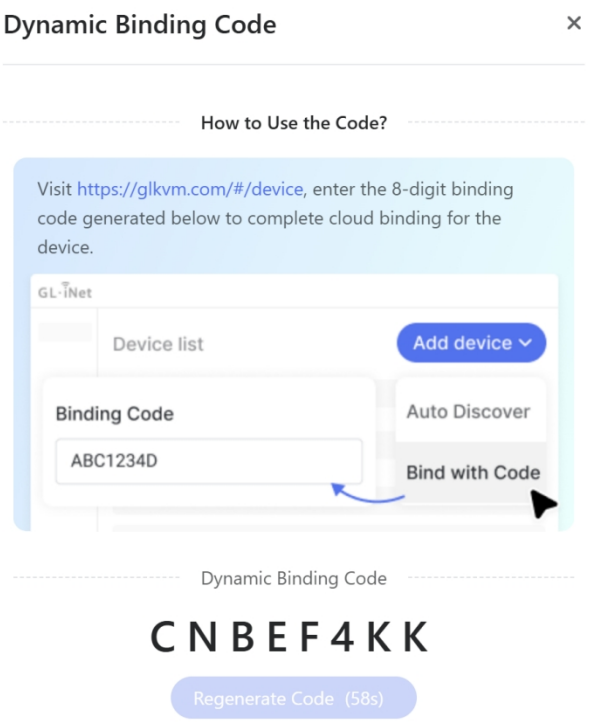
(3) **Dynamic Binding Code**

This needs to be done on the local network. Ensure your controlling device is on the same LAN as Comet X.

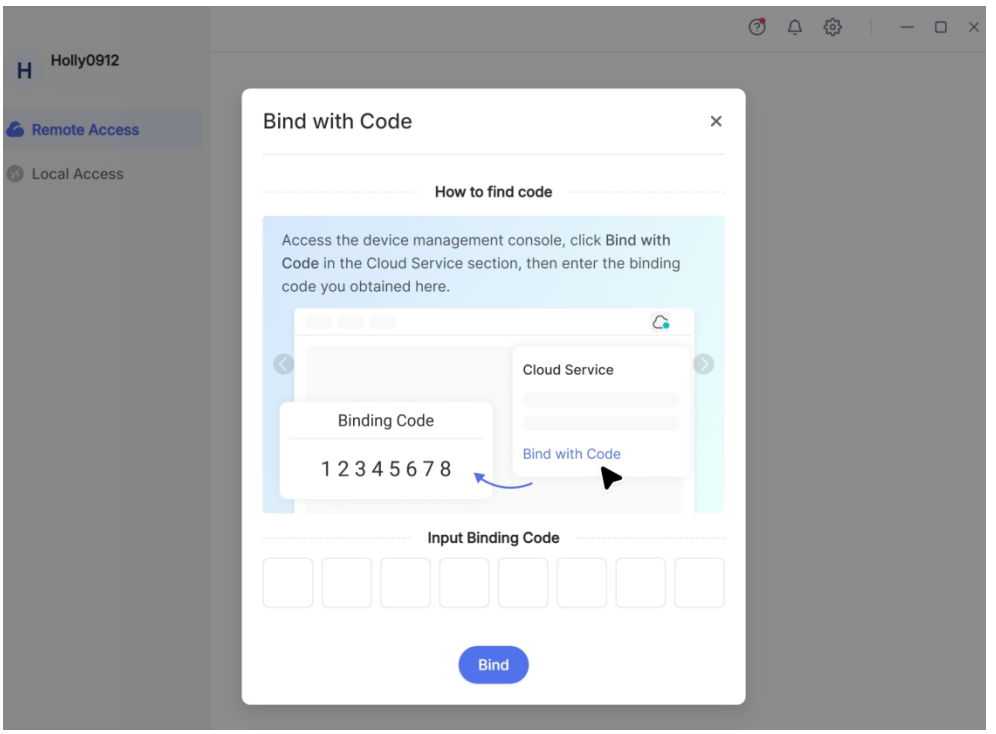
(1) Log in to your KVM locally using domain or IP address, and navigate to **Cloud Service** in the upper-right corner. Click **Bind With Code**.



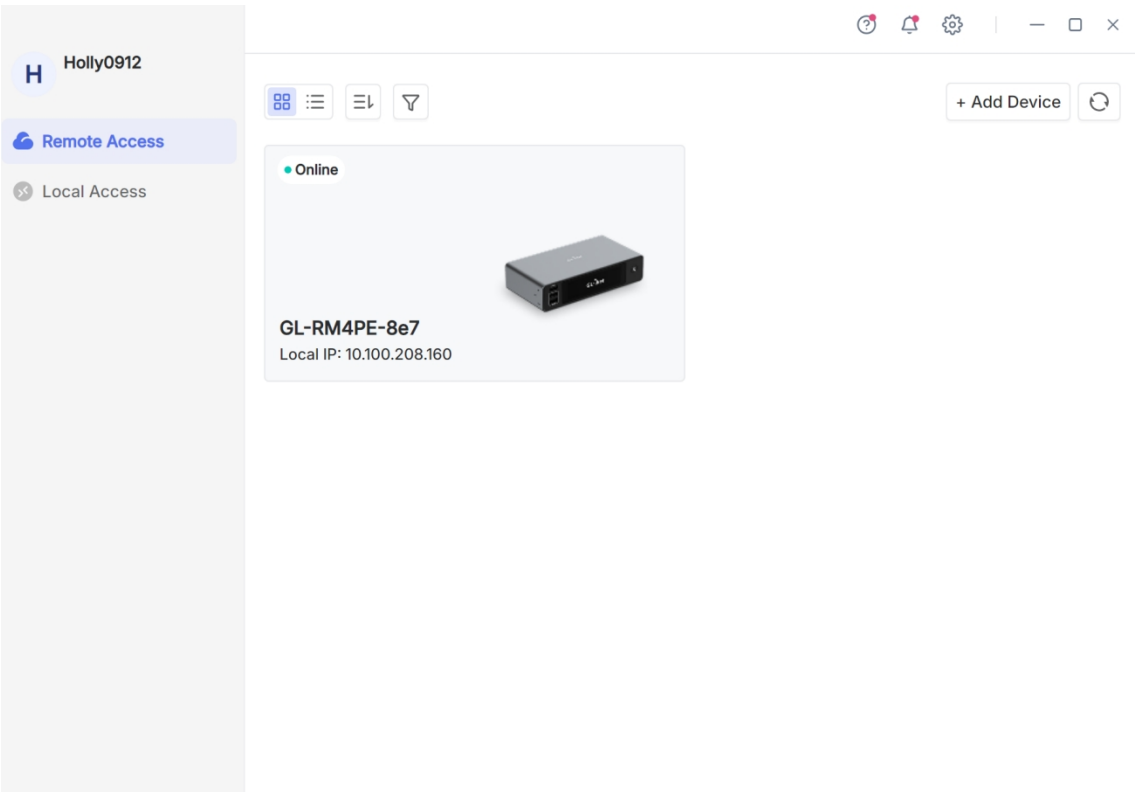
(2) It will generate **an 8-digit dynamic code** randomly for device binding, valid for 60 seconds. Copy this code.



(3) Back to the GLKVM app, enter the dynamic binding code and click **Bind**.

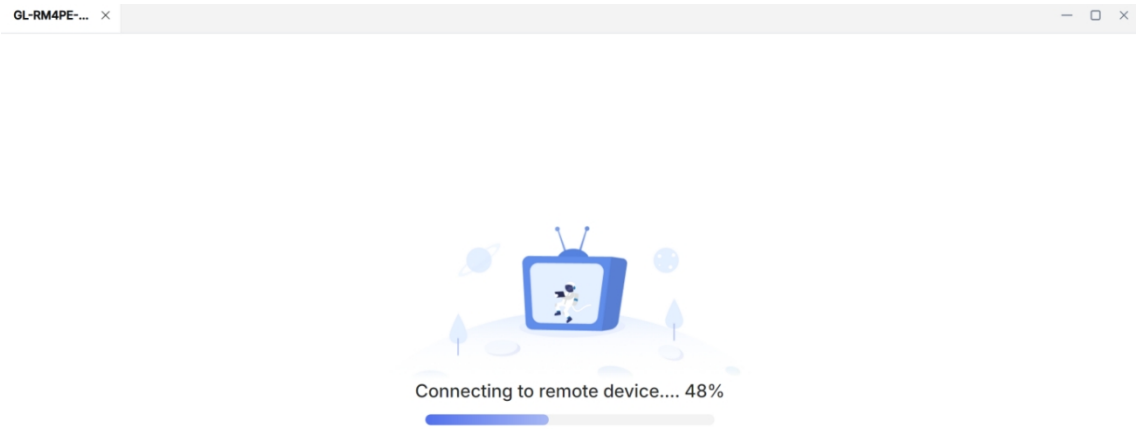


5. Once your KVM device is bound to your account, it will show "Online" in the app.

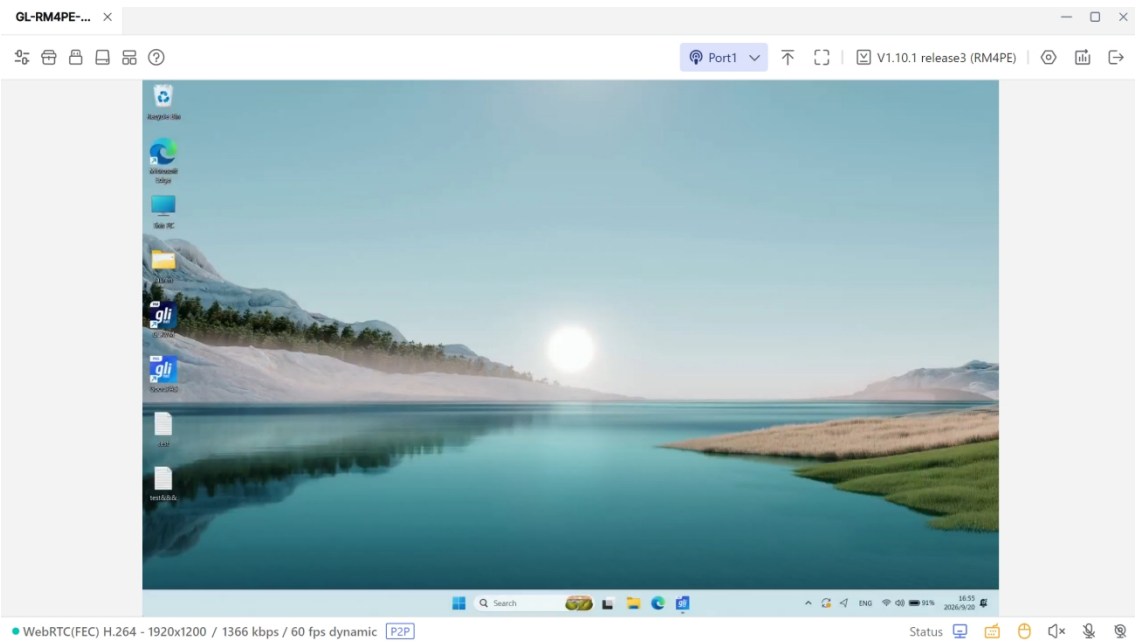

H
Holly0912
Remote Access
Local Access
+ Add Device
Online
GL-RM4PE-8e7
Local IP: 10.100.208.160

4.2.2 Remove Access via GLKVM App

1. Click your KVM device. It will open a new window and start connecting.



2. Once connected, enter the admin password to log in to your device. You will then be able to remotely access the KVM and the controlled device via GLKVM App.

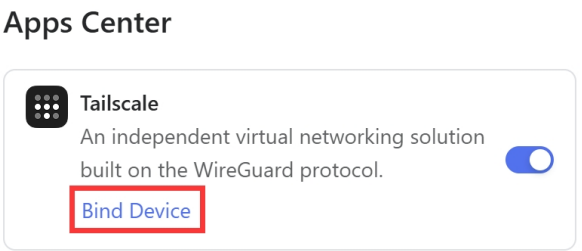


4.3 Tailscale

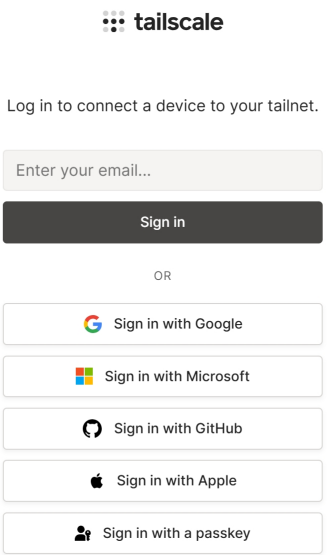
GL.iNet KVM integrates Tailscale, allowing you to bind it to the Tailscale virtual network for remote access — no need to install the GLKVM app or use the cloud service. This is useful when your controlling device does not run Windows, macOS, Android, or iOS (and thus cannot install the GLKVM app), or when you do not want to use the GLKVM app or cloud service.

4.3.1 Bind KVM

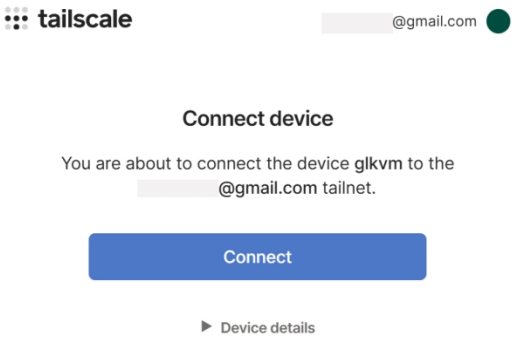
1. Connect your KVM and the controlling device to the same local network.
2. On the controlling device, log in to your KVM console locally via its domain or IP address, then go to **Apps Center** > **Tailscale**. Enable Tailscale and click **Bind Device**.



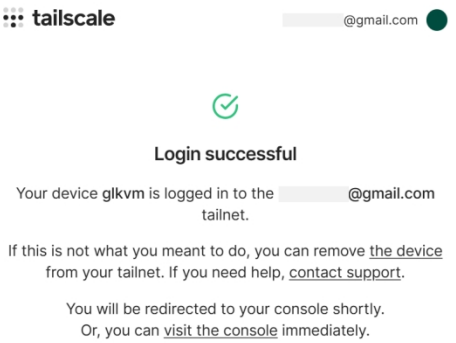
3. You will be directed to the Tailscale login page. Enter your email to log in.



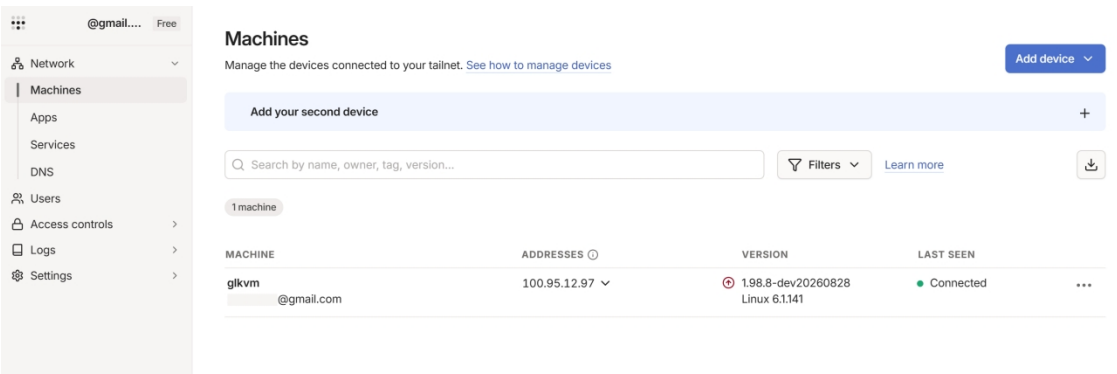
4. After logging in, the page prompts that you are about to connect the device glkvm to your Tailnet. Click **Connect**.



5. Your KVM device will then be bound to your tailnet successfully.



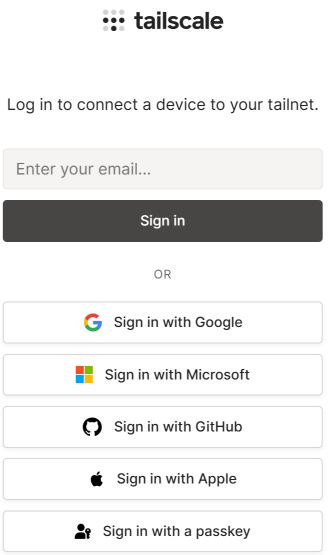
6. You will be redirected to your Tailscale console, where a device **glkvm** is displayed under **Machines**.



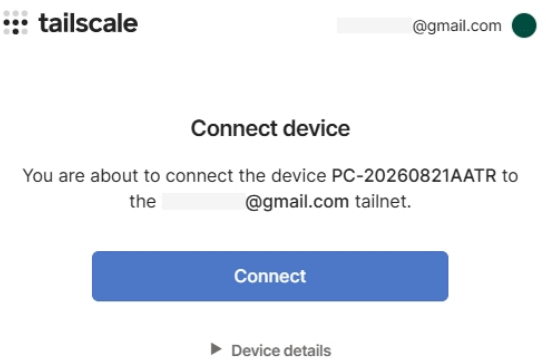
4.3.2 Bind Controlling Device

The example below demonstrates how to bind a Windows laptop (as the controlling device) to the Tailscale network.

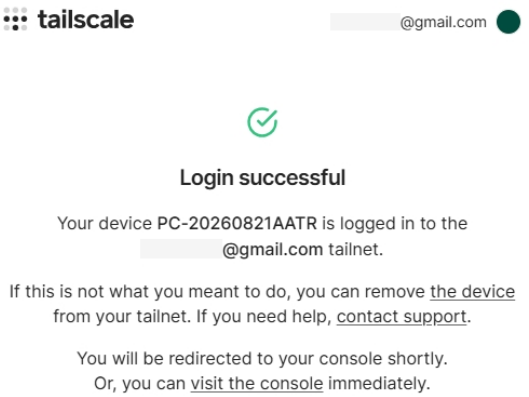
1. Install Tailscale on your laptop from here.
2. Run Tailscale on the laptop and log in with the same email.



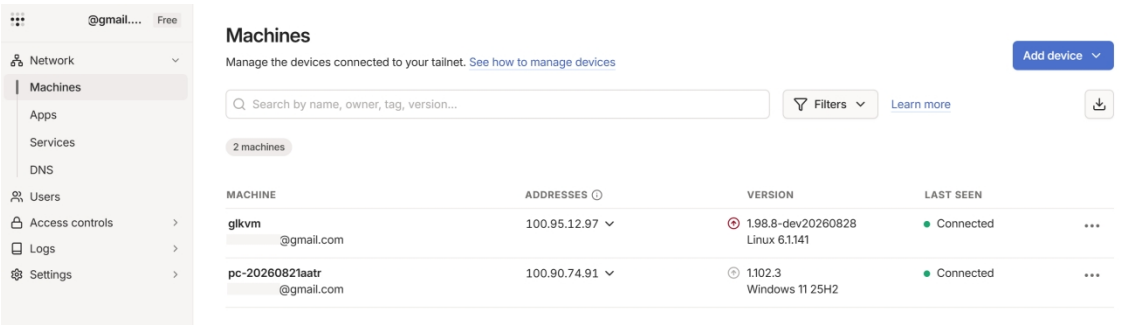
3. After logging in, the page prompts that you are about to connect the laptop (e.g. the controlling device) to your Tailnet. Click **Connect**.



4. Your laptop will then be bound to your tailnet successfully.

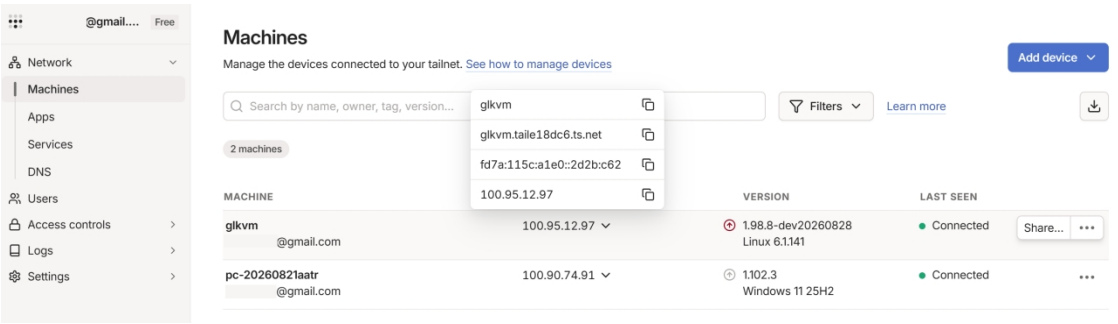


5. You will be redirected to your Tailscale console, where the controlling device is also displayed under **Machines**.

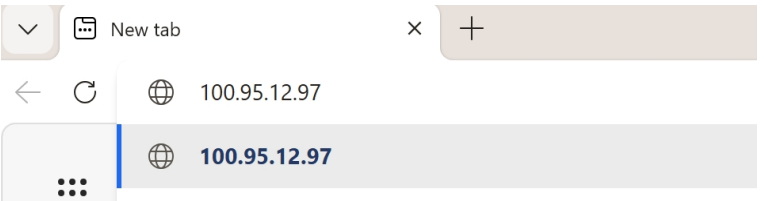


4.3.3 Remote Access via Tailscale

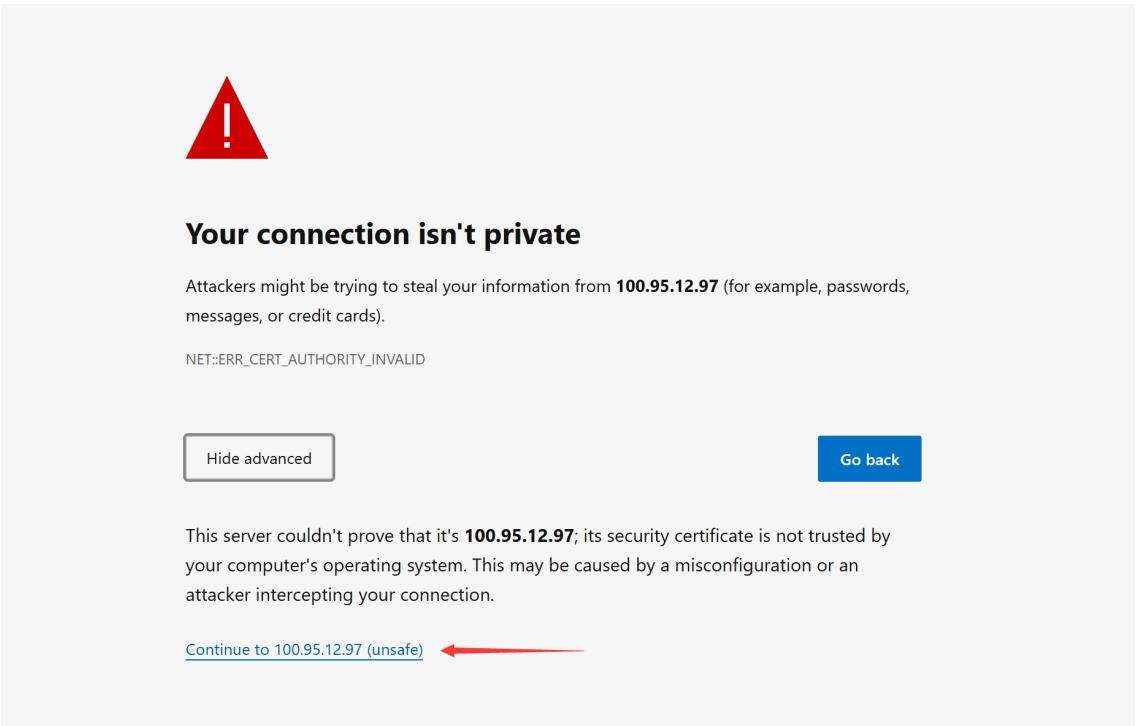
1. In the Tailscale console, click the **glkvm's Address** (100.95.12.97 in this example).



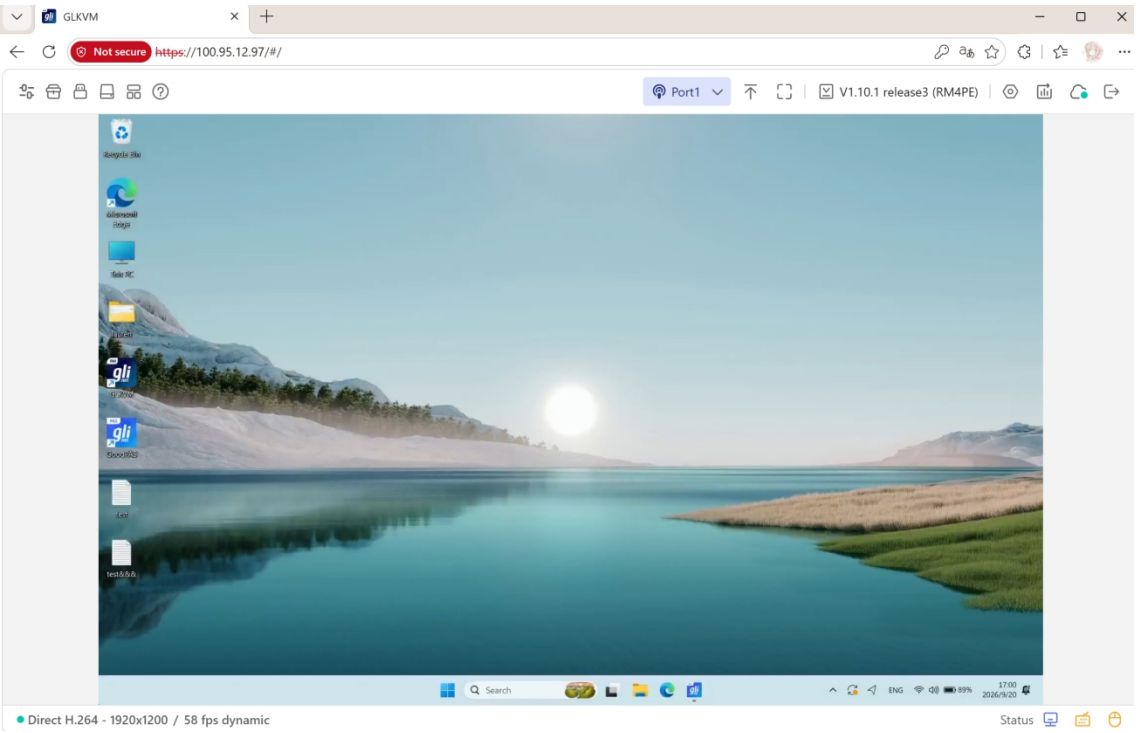
2. You will see four values, which are assigned by Tailscale for device identification and virtual network communication. You can remotely access your KVM using any of them.
3. Take the virtual IPv4 as an example. Copy the virtual IPv4 address of your KVM device, then open a new tab and enter the IP address into the address bar.



Tip: If a privacy error appears, click **Advanced**, then **Proceed to 100.95.12.97**. Click here for details about the privacy error.



4. You will be redirected to the GLKVM login page. Enter your admin password to log in. Then you can access your KVM and the controlled device via the Tailscale virtual IP.

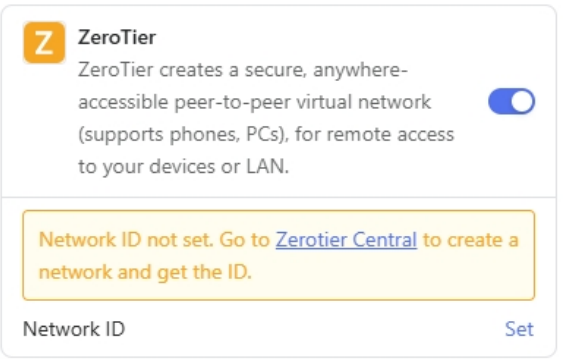


4.4 ZeroTier

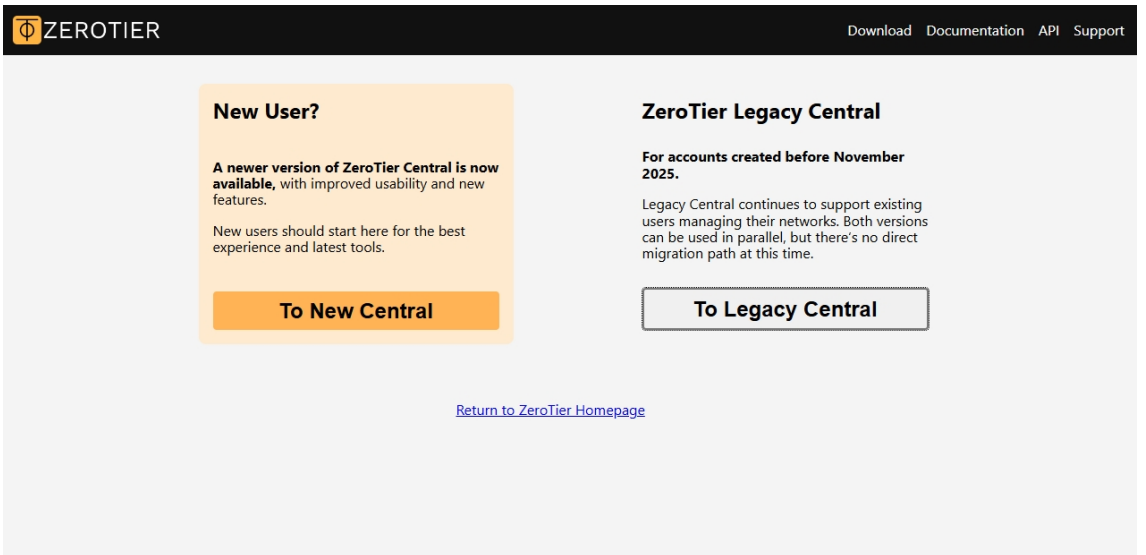
GL.iNet KVM integrates ZeroTier, allowing you to bind it to the ZeroTier network for remote access — no need to install the GLKVM app or use the cloud service.

4.4.1 Bind KVM

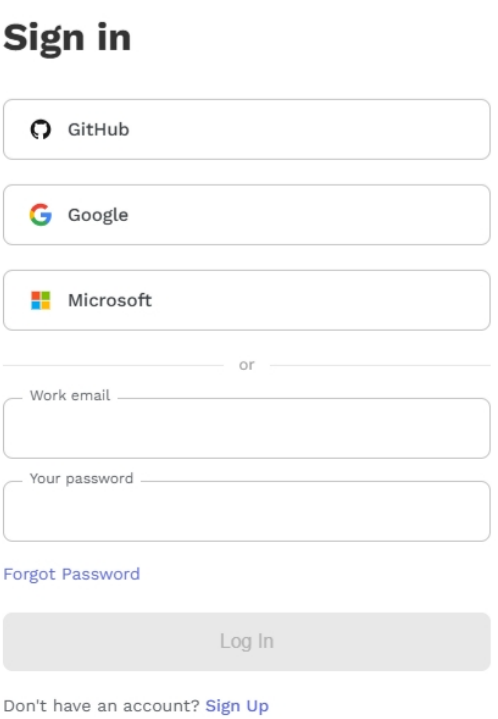
1. Connect your KVM and the controlling device to the same local network.
2. On the controlling device, log in to your KVM console locally via its domain or IP address, then go to **Apps Center** > **ZeroTier**. Enable ZeroTier, and you will see a yellow prompt as shown below. Click the hyperlink or here to sign in to ZeroTier Central.



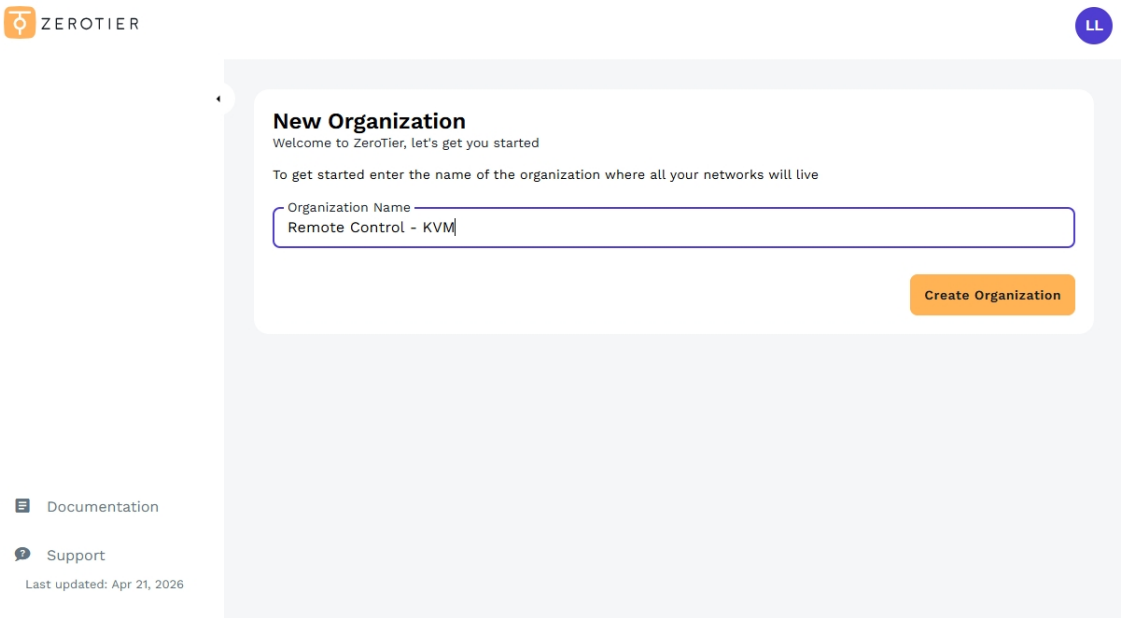
3. When signing in to ZeroTier for the first time, you may be asked to select between **New Central** and **Legacy Central**. Select the appropriate version to proceed.



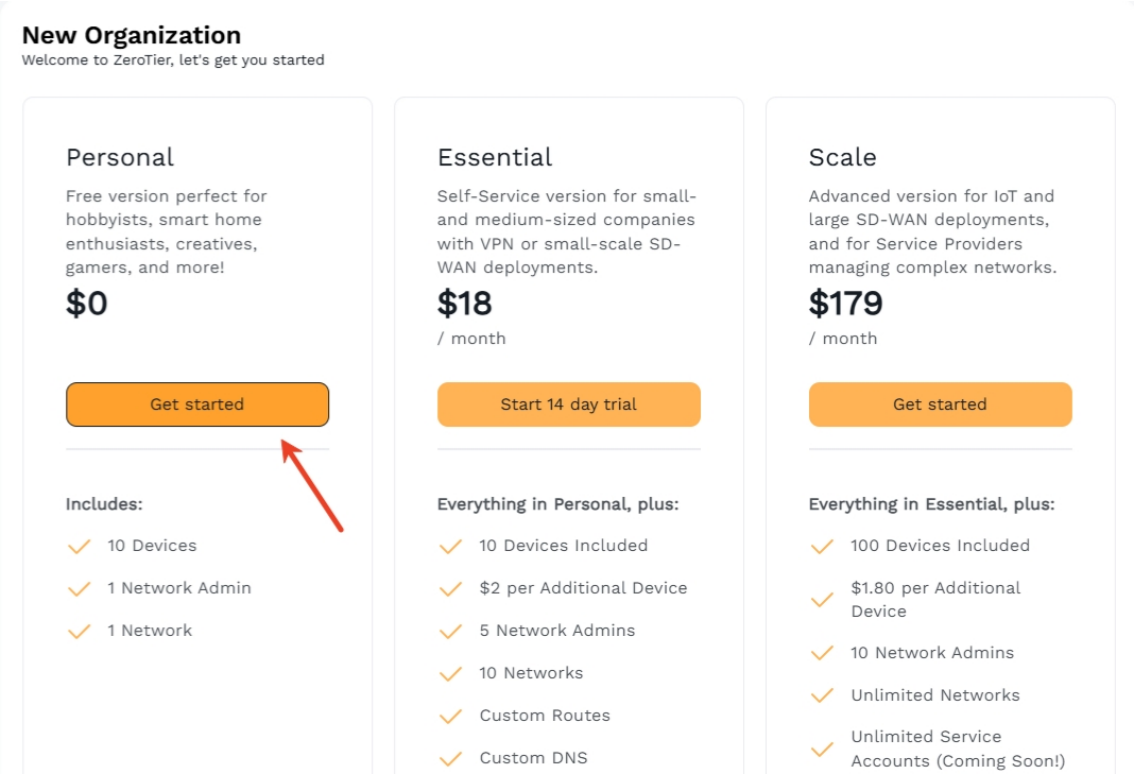
4. Take New Central as an example. Sign in with your email and password. If you don't have an account, sign up first.



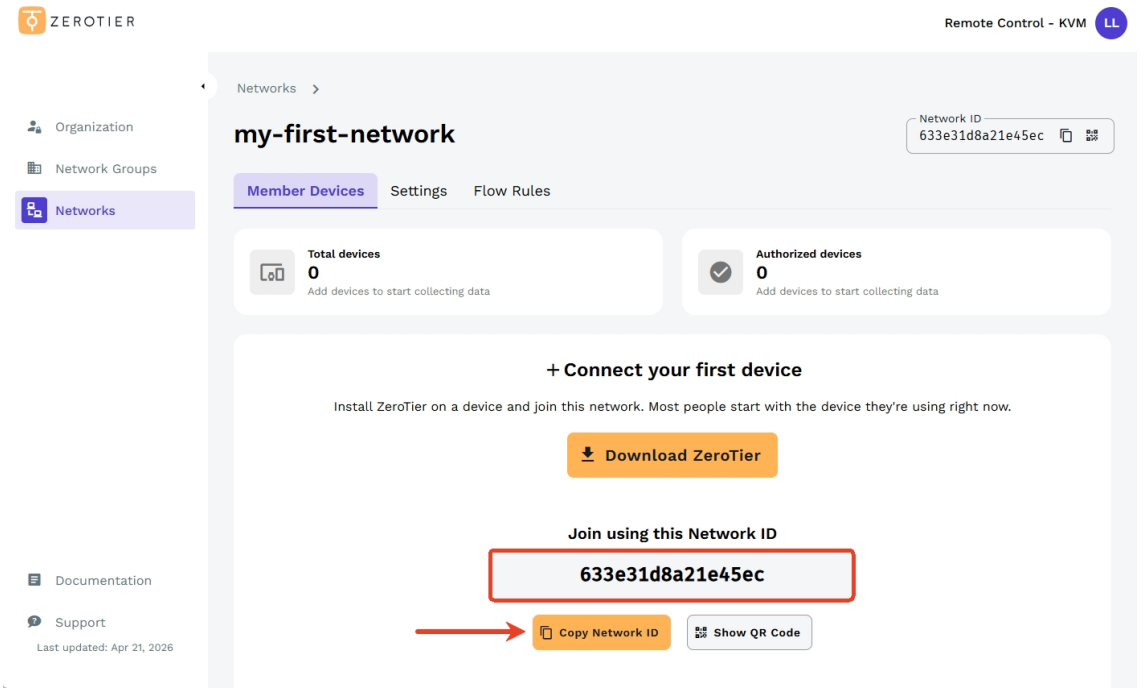
5. After signing in, create an organization.



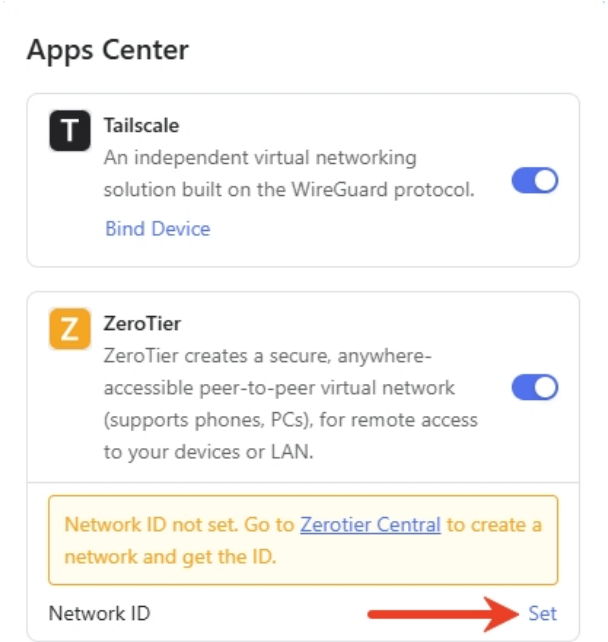
6. Select a plan. Here we choose **Personal plan** as an example, which includes 10 devices, 1 network admin, and 1 network. If you need to create more networks, add more devices, or add custom routes and DNS, choose **Essential** or **Scale plan**.



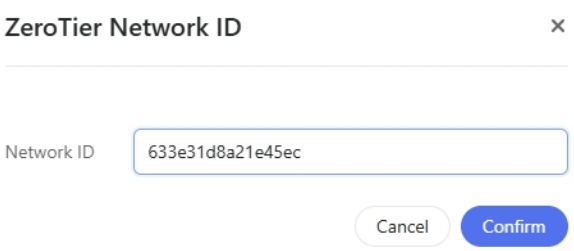
7. Now your ZeroTier network has been created. Copy the **Network ID**, which is **a 16-character alphanumeric string**. You will need it later when adding devices to your ZeroTier network. Keep this tab open.



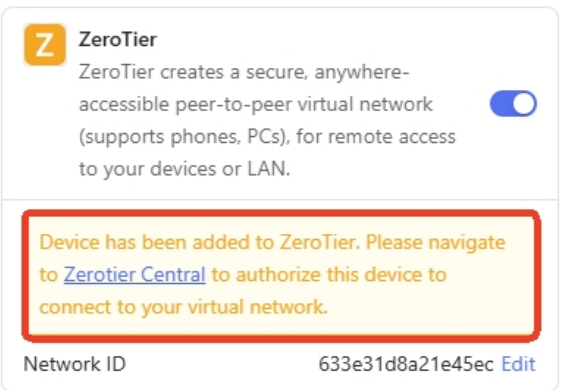
8. Go back to your KVM console and navigate to **Apps Center** > **ZeroTier**. Click **Set**.



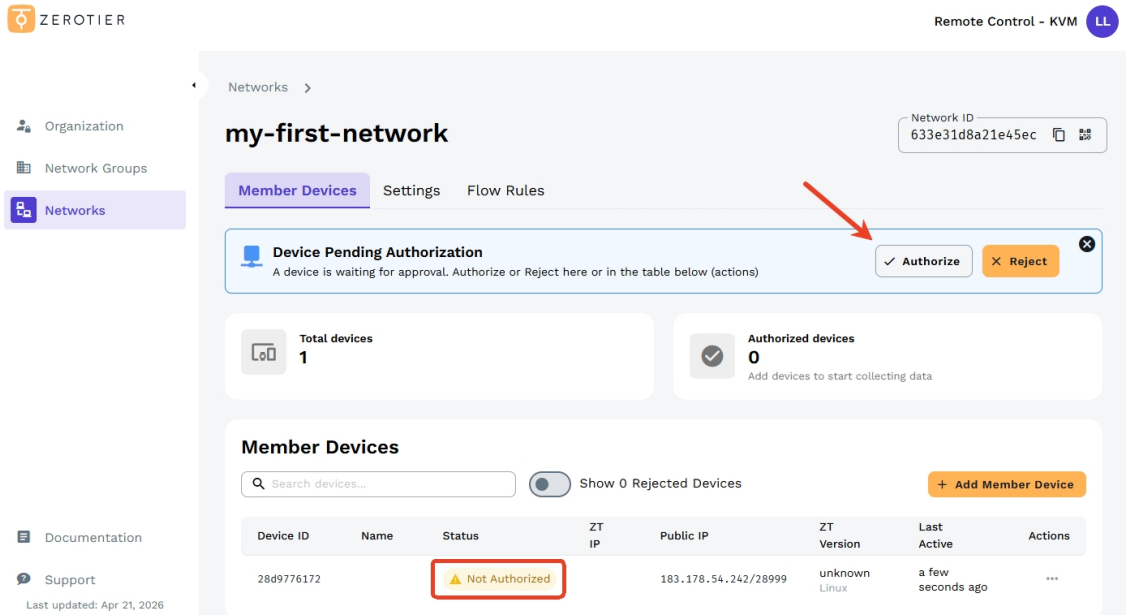
9. In the pop-up window, paste the **Network ID** and click **Confirm**.



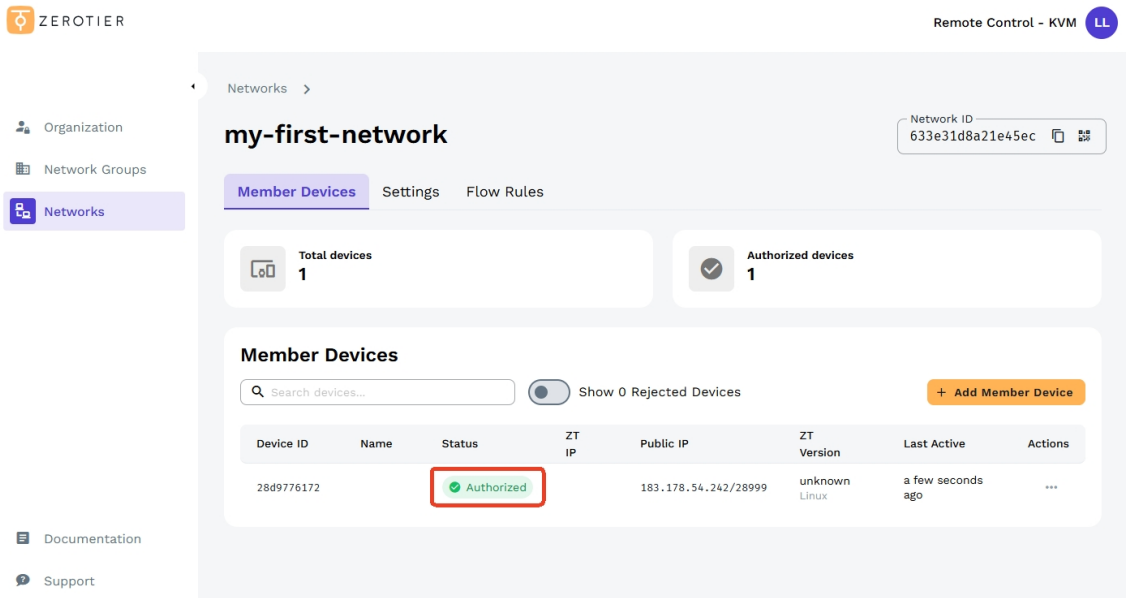
10. A yellow prompt appears on the console, indicating that this device needs to be authorized.



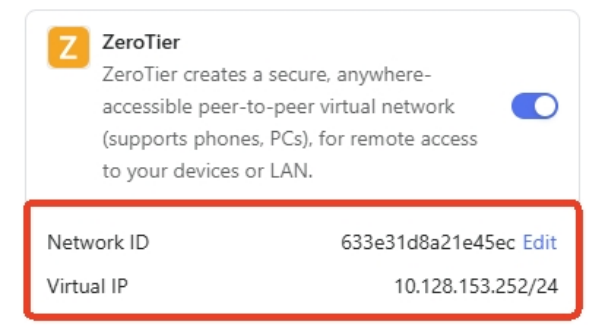
11. Go back to ZeroTier Central. You will see a device (your KVM) waiting for approval. Click **Authorize**.



12. Once authorized, the status will change to Authorized in green, as shown below.



13. On the KVM console, you can also view the **Network ID** and **Virtual IP**, as shown below.



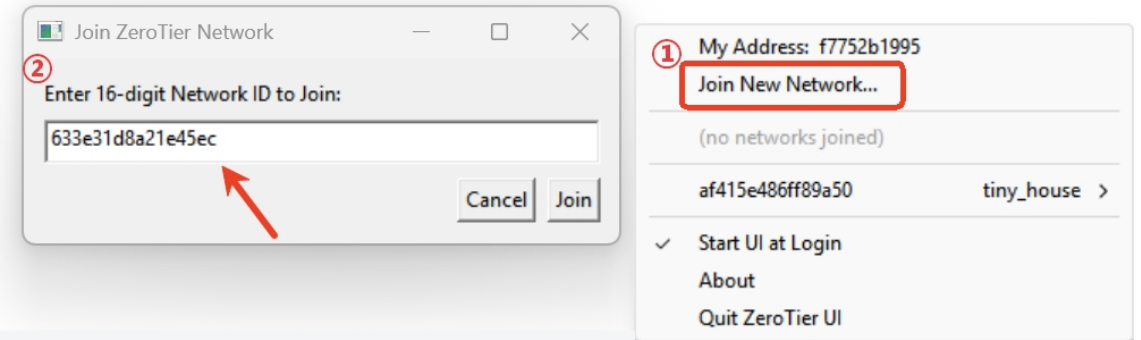
4.4.2 Bind Controlling Device

The example below demonstrates how to bind a Windows laptop (as the controlling device) to the ZeroTier network.

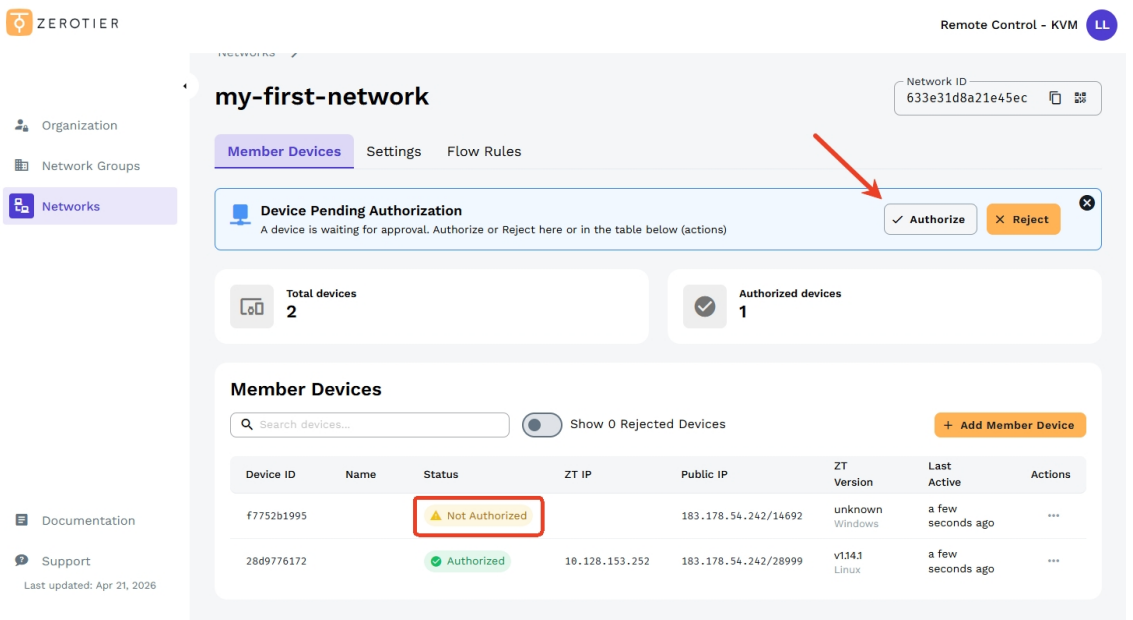
1. Install ZeroTier on your laptop from here.
2. Run ZeroTier on the laptop and add it to the same ZeroTier network.

   Note: ZeroTier does not display a separate window/UI on the desktop; it only resides as an icon in the system tray (bottom-right corner). All operations are performed via the right-click menu.

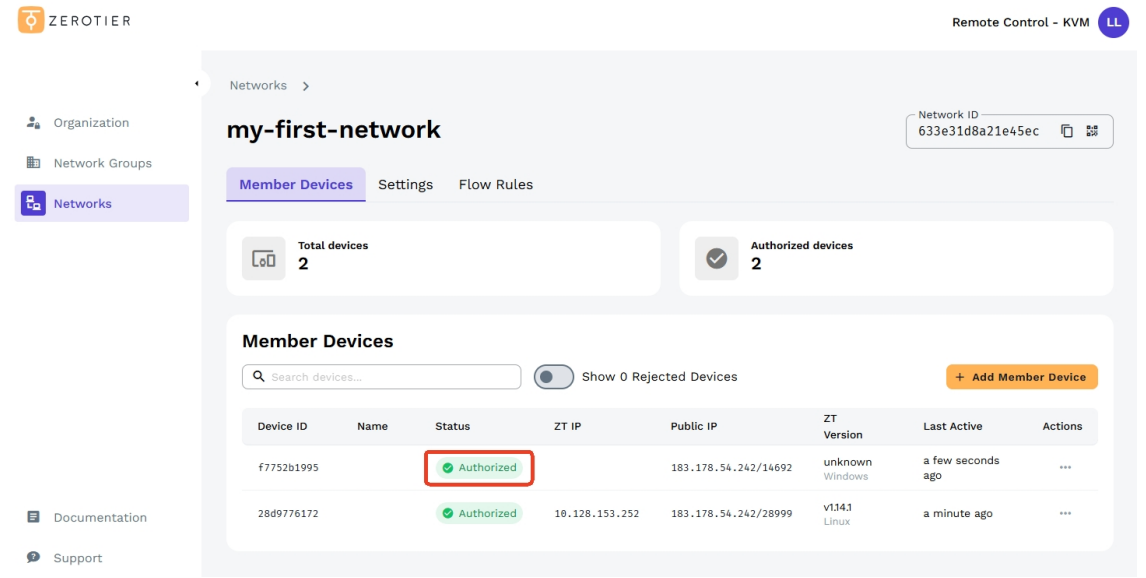
   Right click the ZeroTier icon, and click **Join New Network**. In the pop-up window, enter the same **Network ID** to add this PC to the same ZeroTier network.



Then go to ZeroTier Central, find the Pending device and authorize it.



3. Once authorized, the status will change to Authorized in green, as shown below.

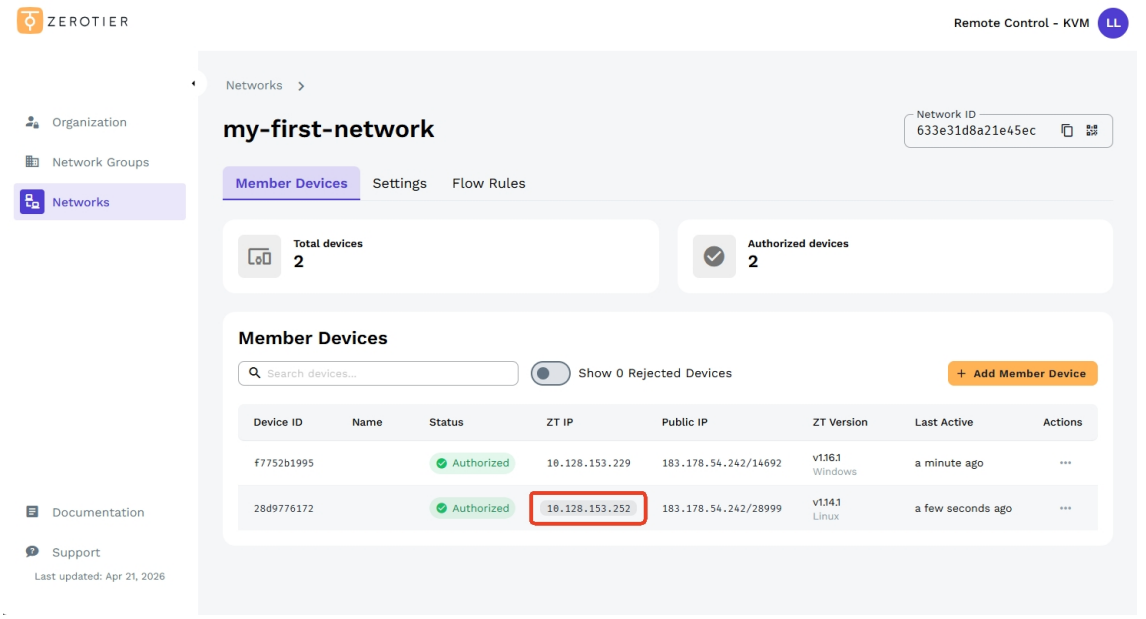


Now your KVM and the laptop are both added into the same ZeroTier network.

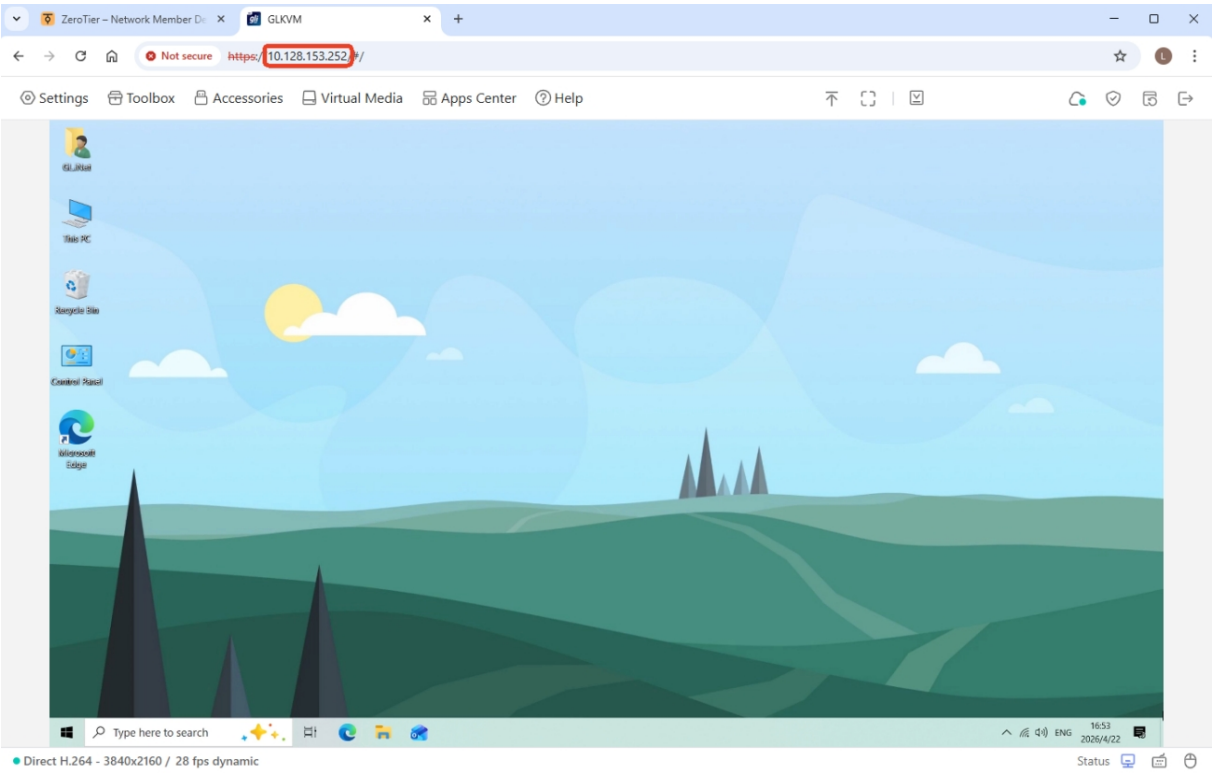
4.4.3 Remote Access via ZeroTier

The example below demonstrates how to remotely access the KVM console via the ZeroTier IP address.

1. On your laptop, sign in to ZeroTier Central with your account, find your KVM device, and click its **ZT IP** to copy it.



2. Open a new browser tab, enter the copied ZeroTier IP into the address bar, and you will be redirected to the GLKVM login page. Enter your admin password, then you can access your KVM and the controlled device via the ZeroTier IP.



Tip: A privacy error may appear when accessing this ZeroTier IP for the first time. Simply click **Advanced** > **Proceed** to continue. See here for details.

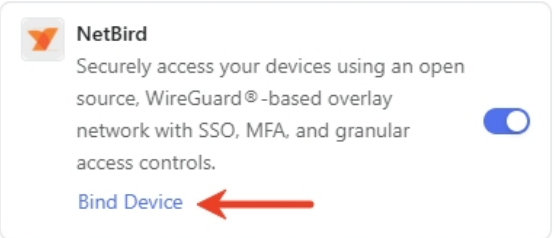
4.5 NetBird

NetBird is an open-source zero trust networking platform that lets you build secure private networks for home and business use. As a WireGuard®-based overlay network, NetBird enables secure access to your devices anytime and anywhere.

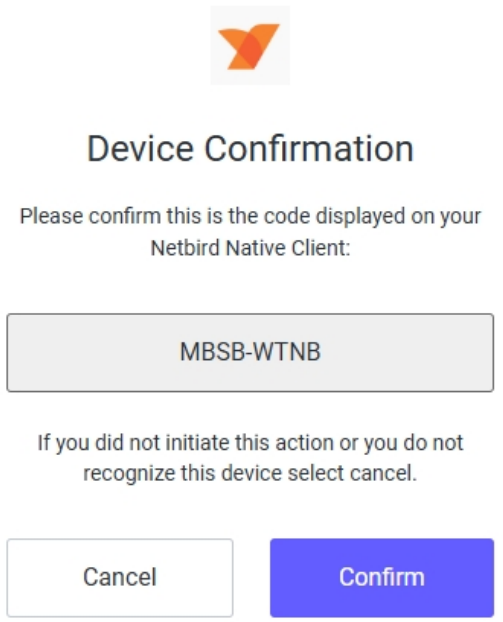
GL.iNet KVM integrates NetBird, allowing you to bind it to the NetBird virtual network for remote access — no need to install the GLKVM app or use the cloud service.

4.5.1 Bind KVM

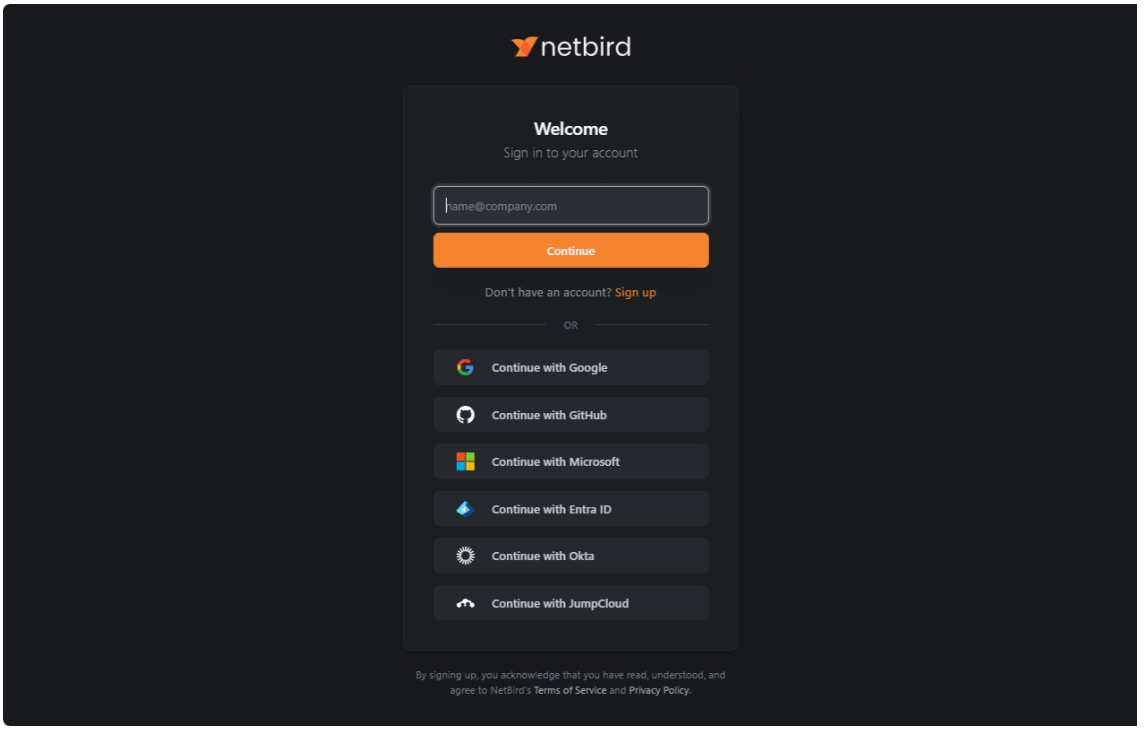
1. Connect your KVM and the controlling device to the same local network.
2. On the controlling device, log in to your KVM console locally via its domain or IP address, then go to **Apps Center** > **NetBird**. Enable NetBird and click **Bind Device**.



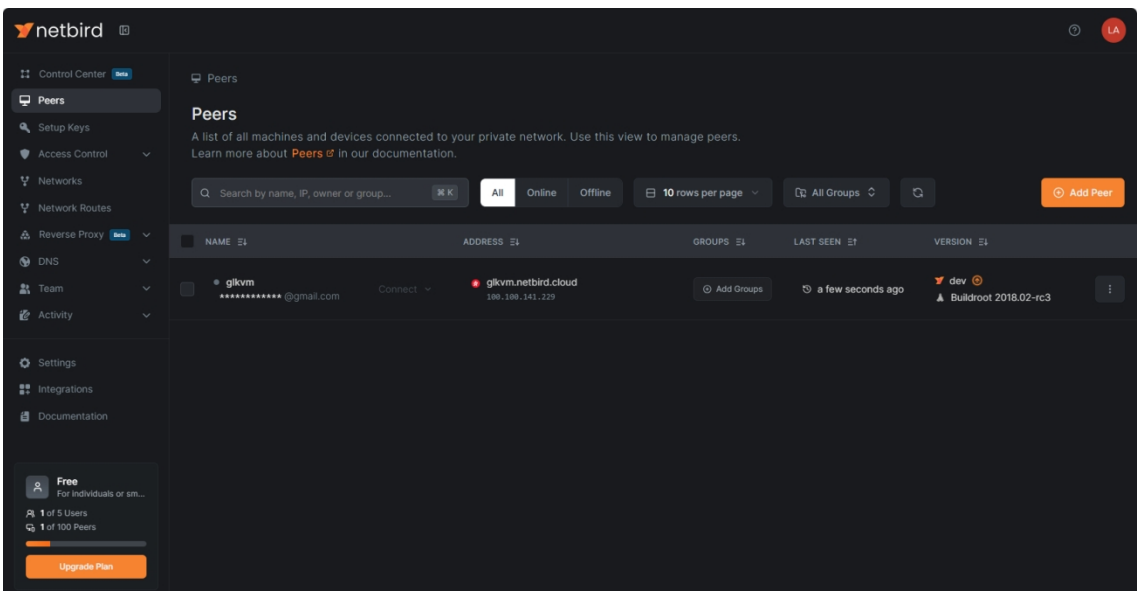
3. You will be redirected to the device confirmation page. Click **Confirm**.



4. Sign in to your NetBird account. If you don't have an account, sign up first.



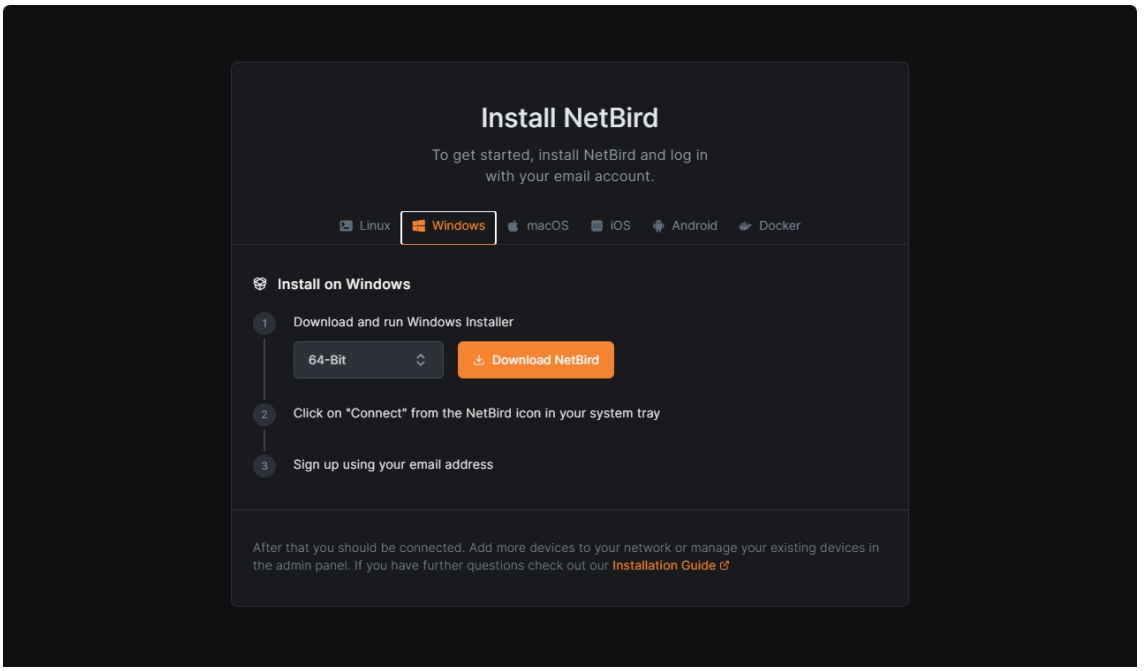
5. After signing in, the KVM device will be automatically bound to your account. On the NetBird dashboard, you will see your KVM listed on the **Peers** page.



4.5.2 Bind Controlling Device

The example below demonstrates how to bind a Windows laptop (as the controlling device) to the NetBird network.

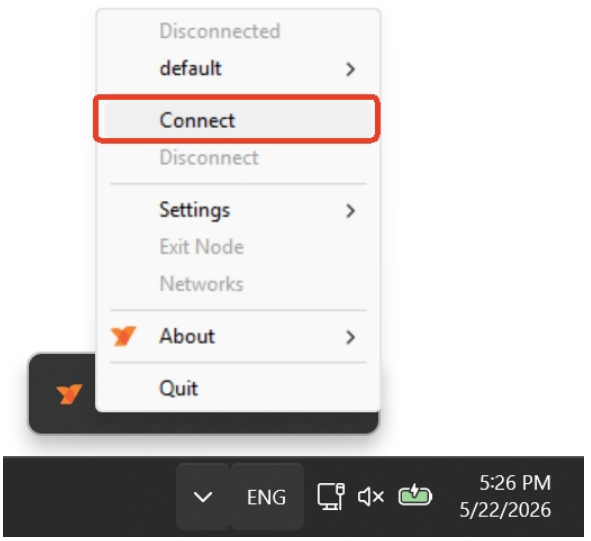
1. Install NetBird on your laptop from here.



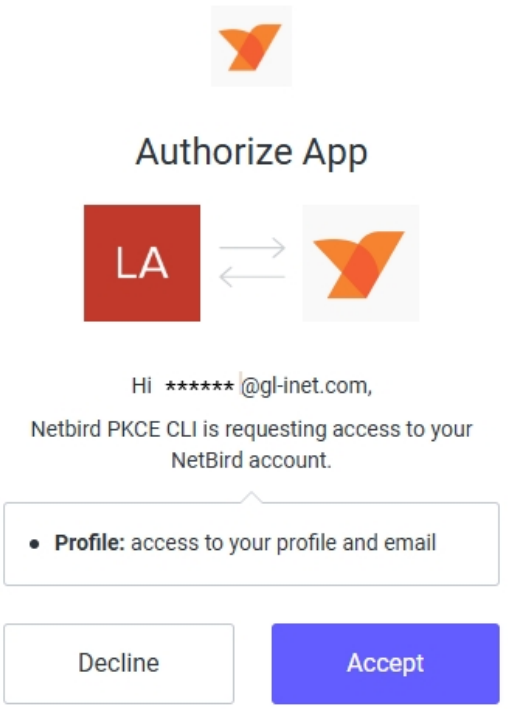
2. Run NetBird on the laptop and add it to the same NetBird network.

   Note: NetBird does not display a separate window/UI on the desktop; it only resides as an icon in the system tray (bottom-right corner). All operations are performed via the right-click menu.

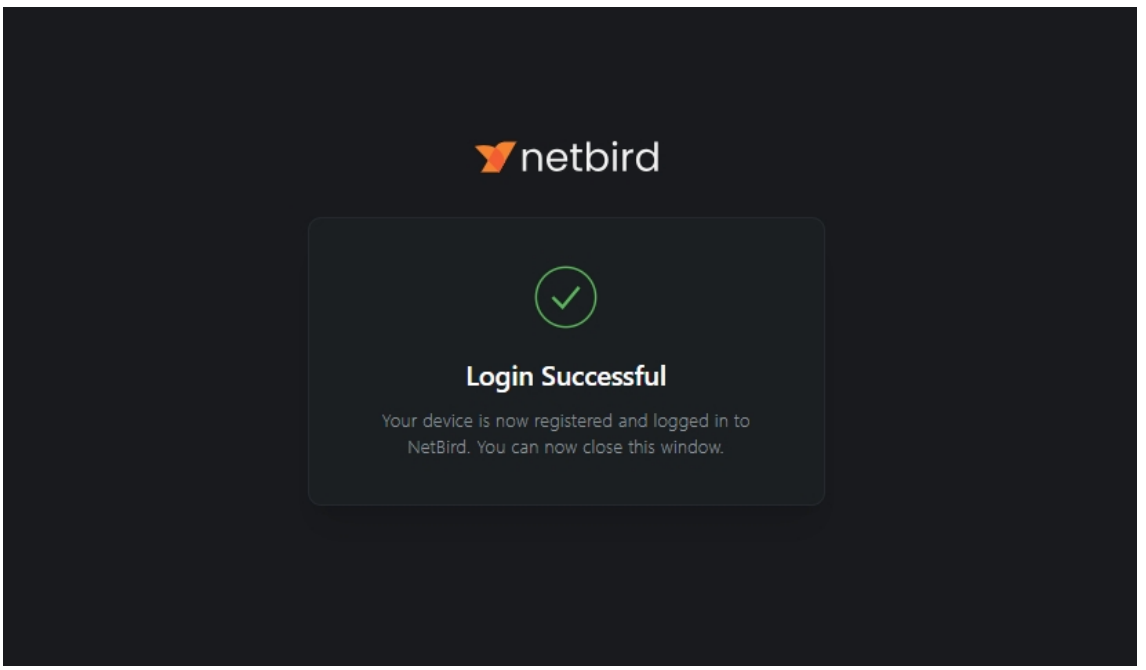
   Right click the NetBird icon, and click **Connect**.



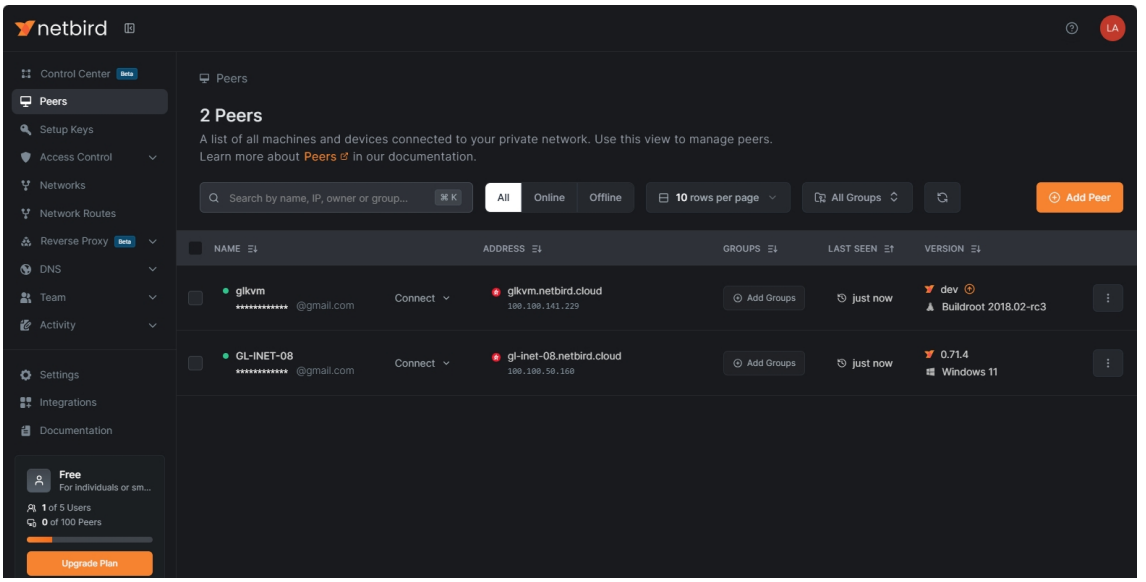
3. In the pop-up window, click **Accept** to authorize.



4. Your laptop will be automatically bound to your account and added to the same NetBird network.



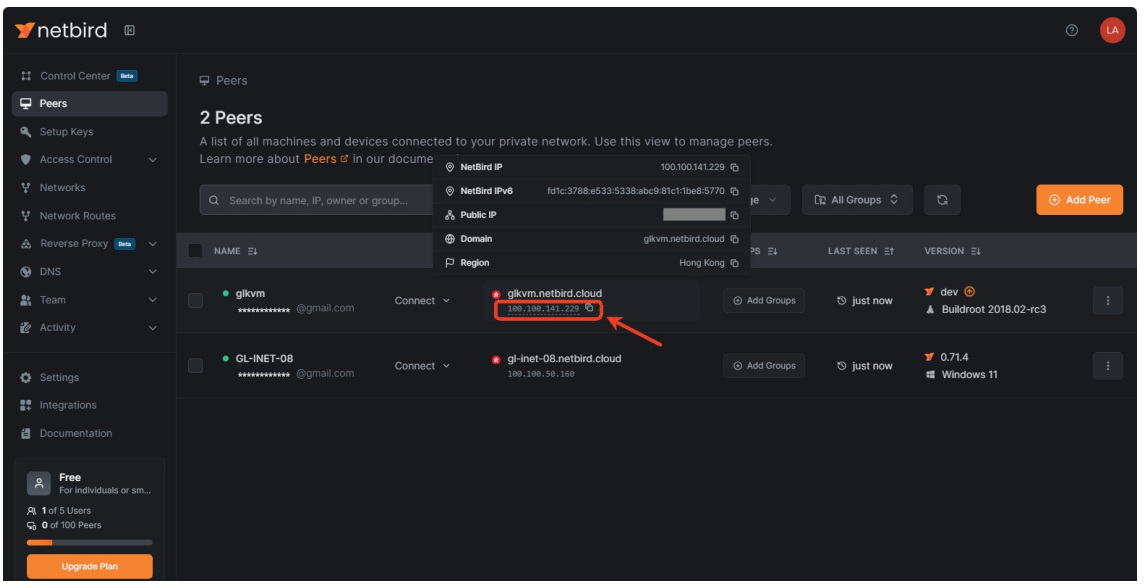
5. On the NetBird dashboard, there are two devices on the **Peers** page: your KVM and the controlling laptop.



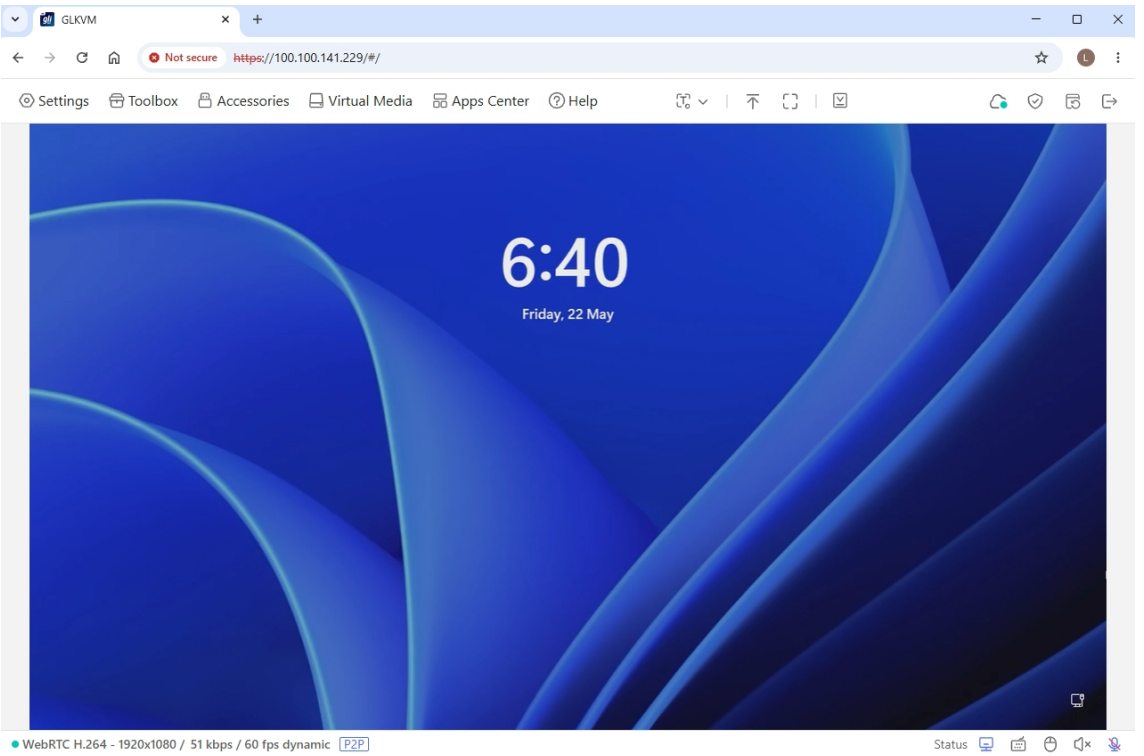
4.5.3 Remote Access via NetBird

The example below demonstrates how to remotely access the KVM console via the NetBird virtual IP address.

1. On your laptop, sign in to the NetBird dashboard and navigate to **Peers**.
2. Find your KVM device and click its **NetBird IP** (100.100.141.229 in this example) to copy the virtual IP.



3. Open a new browser tab, enter the copied NetBird IP into the address bar, and you will be redirected to the GLKVM login page. Enter your admin password, then you can access your KVM and the controlled device via the NetBird IP.



Tip: A privacy error may appear when accessing this NetBird IP for the first time. Simply click **Advanced** > **Proceed** to continue. See here for details.

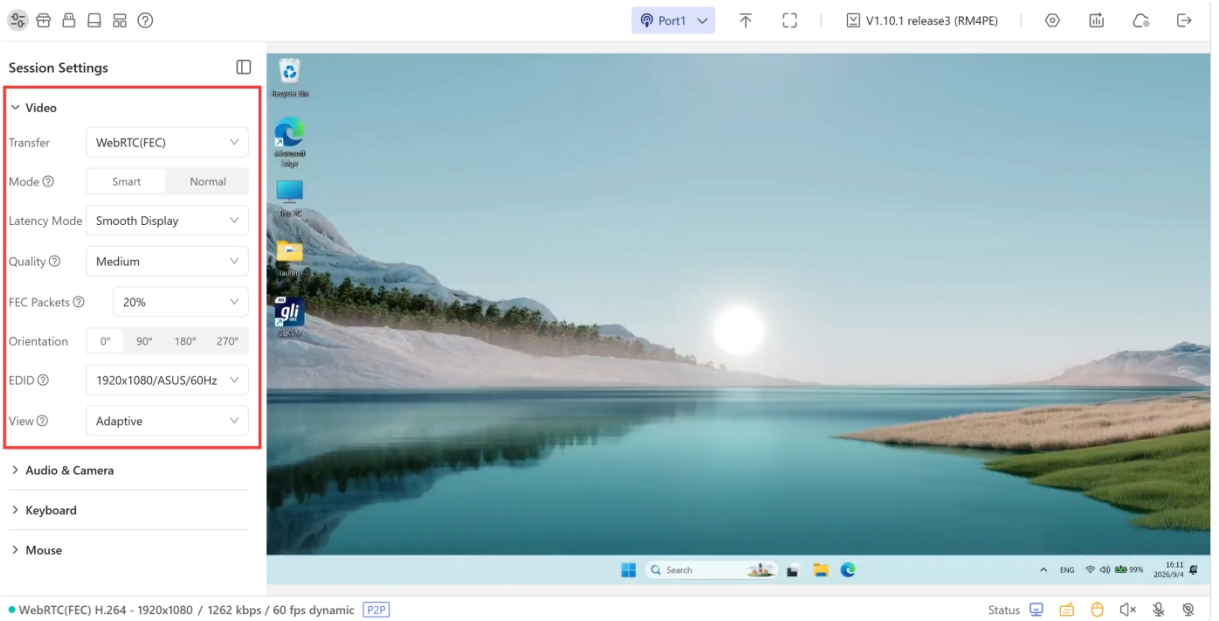
Chapter 5

Session

This chapter introduces the Session page on the KVM Web console.

5.1 Video

You can customize video settings on the Session, such as display mode, video quality, video transmission, screen orientation, and EDID.



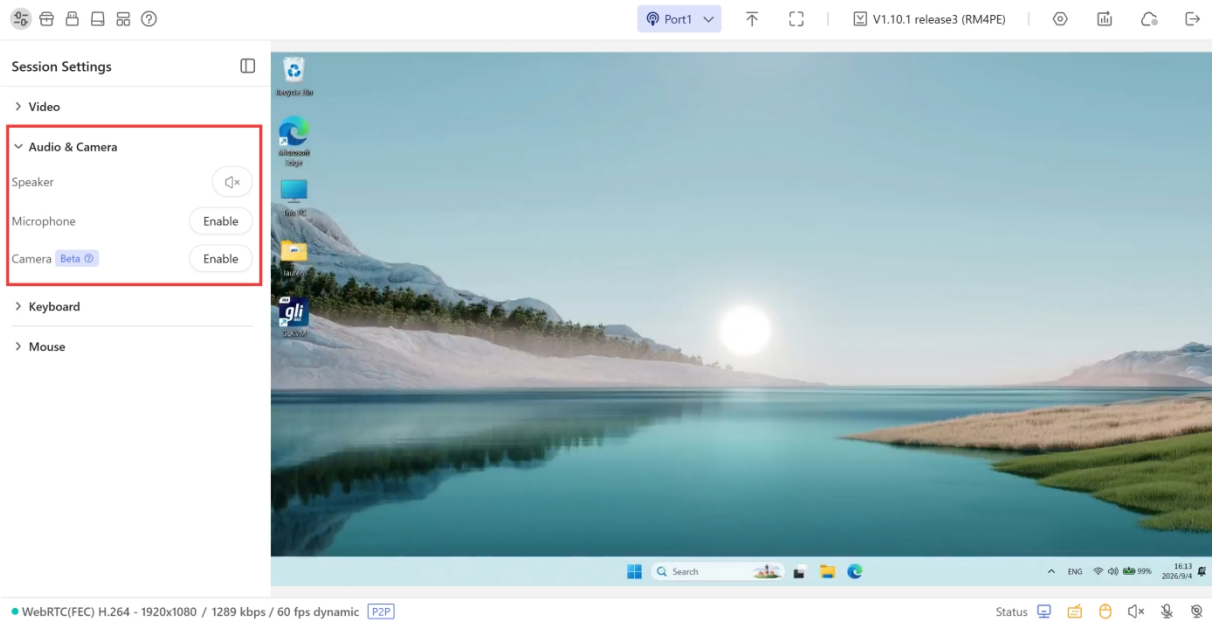
- **Transfer**: Switch the video transmission method between WebRTC, WebRTC (FEC), and Direct as needed. Note that the Direct transfer has no sound.
  (1) **WebRTC**: Balances smooth video and stable audio for real-time remote control.
  (2) **WebRTC (FEC)**: Adds forward error correction to improve connection stability under poor or unstable network conditions. When selected, it automatically repairs lost data packets by transmitting a small amount of redundant data, reducing screen flickering and lag.
  (3) **WebRTC (Native)**: Powered by the Google WebRTC Library to provide improved streaming performance and a smoother real-time remote control experience. This transfer mode was introduced in firmware v1.10.0.
  (4) **Direct**: Provides the lowest latency and lossless video quality, but does not support audio transmission.
- **Mode**: Switch between Smart and Normal mode as needed. Smart mode helps reduce bandwidth consumption, especially in weak networks.
- **Latency Mode**: You can choose between Lowest Latency and Smooth Display for the device. This feature was introduced in firmware v1.9.0.
  (1) **Lowest Latency**: Minimizes input latency to deliver snappier keyboard and mouse response.

(2) **Smooth Display**: Optimizes visual performance to eliminate stuttering and frame loss for steady playback.

- **Quality**: Adjust the video quality to Auto/Low/Medium/High/Ultra-high/Lossless according to your network environment and resolution requirements.
- **FEC Packets**：When the network is unstable, it automatically repairs lost data packets by sending a small amount of redundant data, reducing screen flickering and lag. You can adjust the FEC ratio to 5%/10%/15%/20%.
- **Orientation**: Adjust the console's rotation angle to 0°/90°/180°/270°.
- **EDID**: Short for Extended Display Identification Data, it automatically matches the optimal display parameters. The default setting applies to most scenarios and generally does not need to be modified. See here for details. If the screen does not refresh after EDID adjustment, restart the controlled device.
- **View**: This setting determines screen scaling when resizing the browser window. Available options: Adaptive, Best Picture Quality, Original Pixel. This feature was introduced in firmware v1.8.0.

5.2 Audio & Camera

You can adjust the Audio and Camera settings for the controlled device.



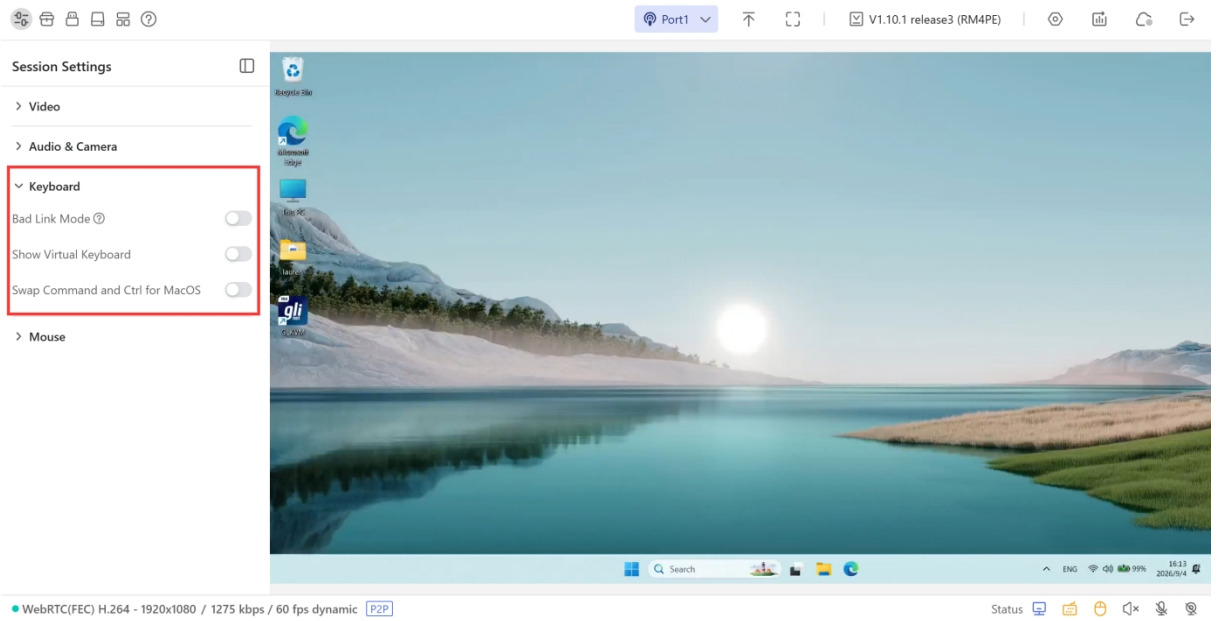
- **Speaker**: Control audio output from the controlled device (e.g., system sounds, video audio).
- **Microphone**: Transmit local audio (e.g., your voice) from the controlling device to the remote end. It supports one-click mute, and a long-press shortcut to activate the microphone (i.e., Press To Speak).

  Note: The shortcut must be manually configured in Settings prior to use.
- **Camera**: When the camera is enabled on the controlling device, local video frames are transmitted via passthrough to the remote host, where a virtual USB camera is emulated. Applications running on the remote host (e.g., conferencing tools and FaceTime) can consume this video feed, providing the same user experience as a physical camera directly attached to the remote host.

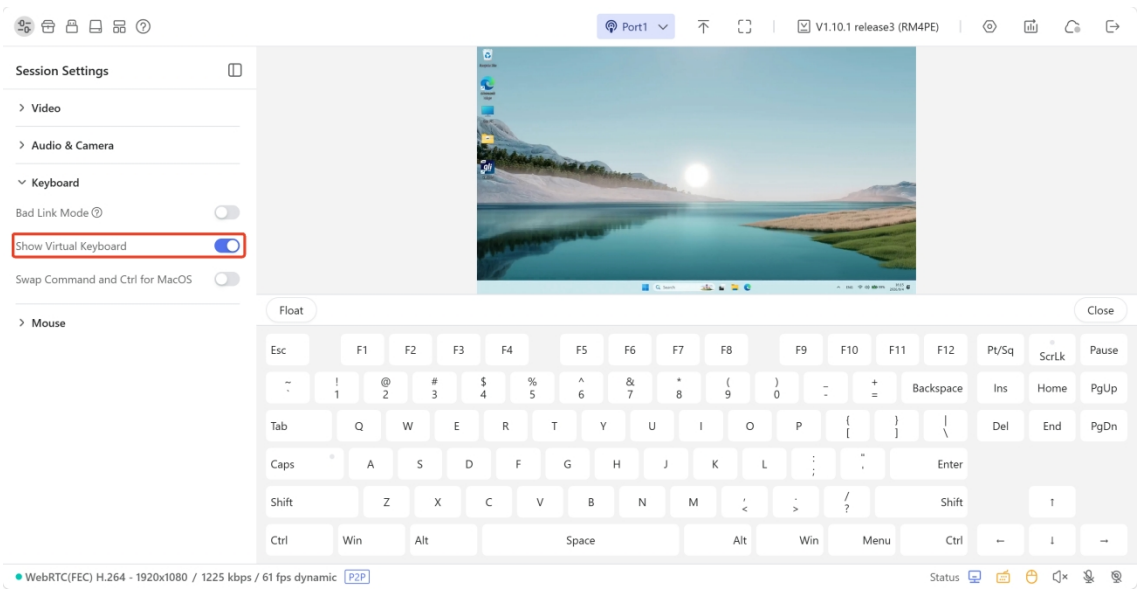
  Note: This feature was introduced in firmware v1.10.0 and is supported exclusively in WebRTC (FEC) mode. At present, it is accessible only via a web browser; support for the app and desktop client is not yet available.

5.3 Keyboard

The Keyboard allows you to configure settings for keyboard use on the controlled device.



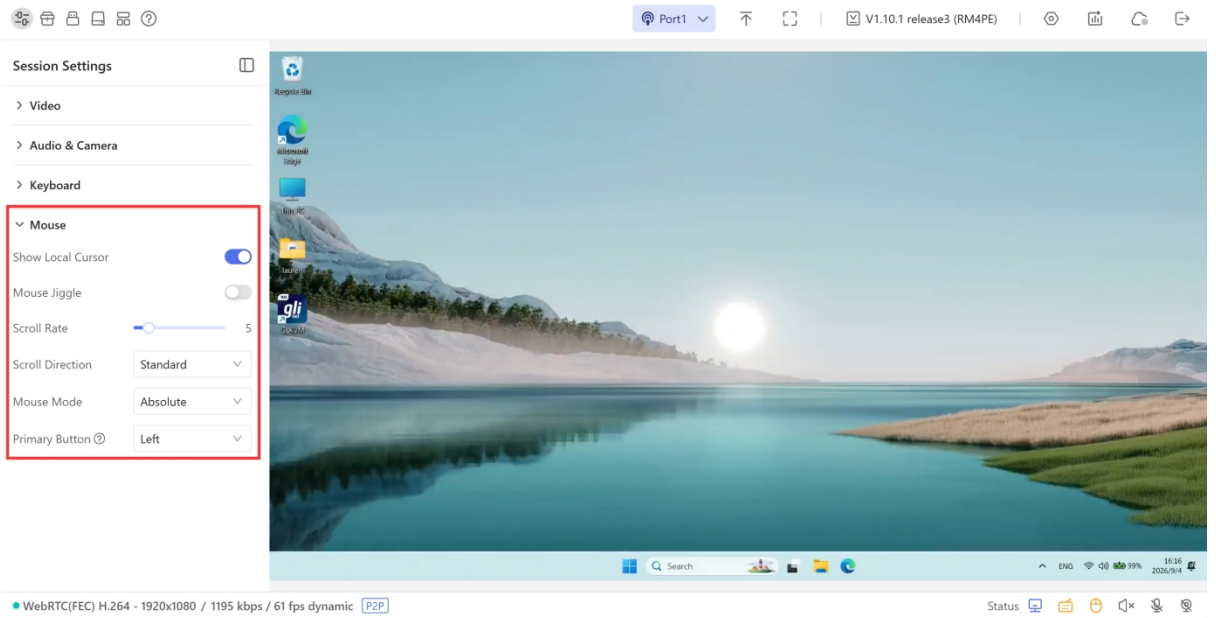
- **Bad Link Mode**: i.e. Release keys immediately. Each key press is sent as a single quick press-and-release action, preventing stuck keys or unintended repeated input during remote control.
- **Show Virtual Keyboard**: Show and use the virtual keyboard on the console.



- **Swap Command and Ctrl for MacOS**: This feature swaps the Cmd and Ctrl keys to ensure keyboard compatibility across different operating systems.

5.4 Mouse

You can adjust the mouse settings for a better experience on the controlled device.



- **Show Local Cursor**: Show the mouse of the controlling device on the screen.
- **Mouse Jiggle**: The Mouse Jiggle feature simulates subtle, periodic mouse movements to prevent the controlled device from going to sleep due to prolonged inactivity, such as during remote meetings and server management.
- **Scroll Rate**: It refers to the speed at which the mouse wheel scrolls or the number of lines/units scrolled per wheel rotation, affecting how quickly content moves on the remote.
- **Scroll Direction**: It determines whether scrolling the mouse wheel up/down moves content on the remote screen in the same direction (natural scrolling) or the opposite direction (traditional scrolling). Four direction modes are available: Standard, Vertical Invert, Horizontal Invert, and Both Invert.
- **Mouse Mode**: Allows switching between Absolute Mode and Relative Mode to ensure smooth and accurate cursor control in different remote control scenarios.
  (1) **Relative Mode**: The mouse position is calculated based on movement rather than fixed screen coordinates. You must click inside the remote window to control the mouse. The cursor is locked within the remote screen and cannot move out smoothly. This mode provides better compatibility with BIOS, old systems, and embedded devices.
  (2) **Absolute Mode**: The mouse position corresponds to exact screen coordinates. The remote cursor follows the local one smoothly and accurately, allowing seamless

movement between your local screen and the remote screen. It is ideal for daily desktop control and precise operations, though a slight delay may occur due to network transmission.

In short, Use Absolute for smooth daily control; use Relative for BIOS access, some older devices that do not support absolute positioning, or to avoid accidental cursor movement.

- **Relative Sensitivity**: It is available when the Mouse Mode is Relative.
- **Primary Button**: Select the left or right button as the primary click. This feature was introduced in firmware v1.9.0.

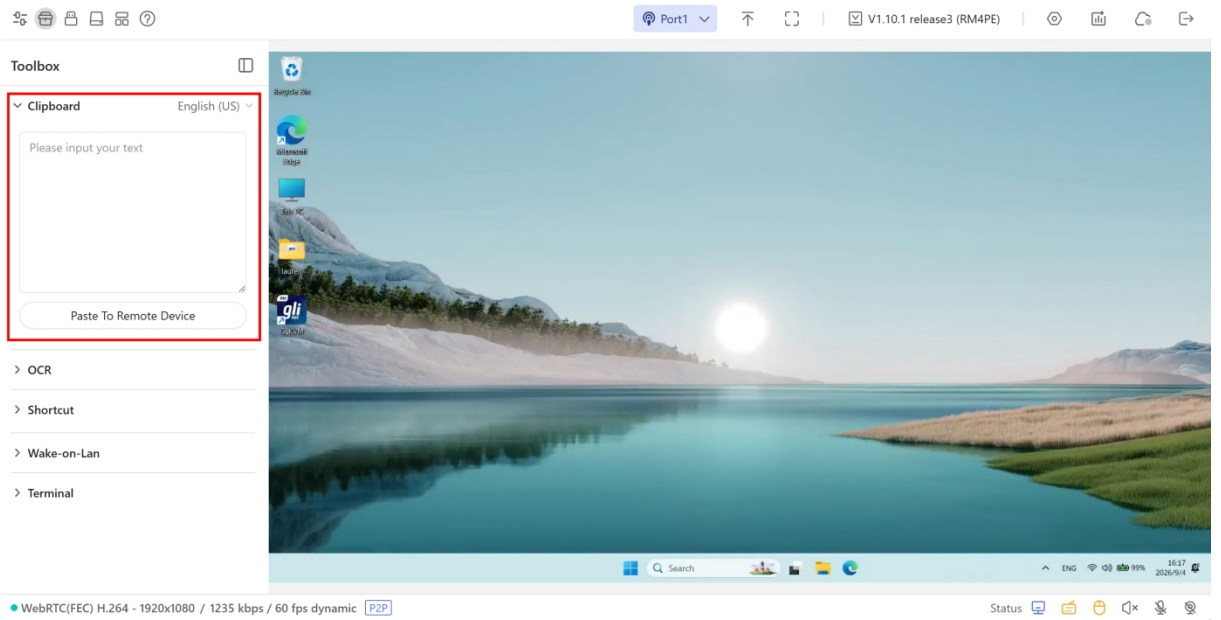
Chapter 6

Toolbox

This chapter introduces the Toolbox page on the KVM Web console.

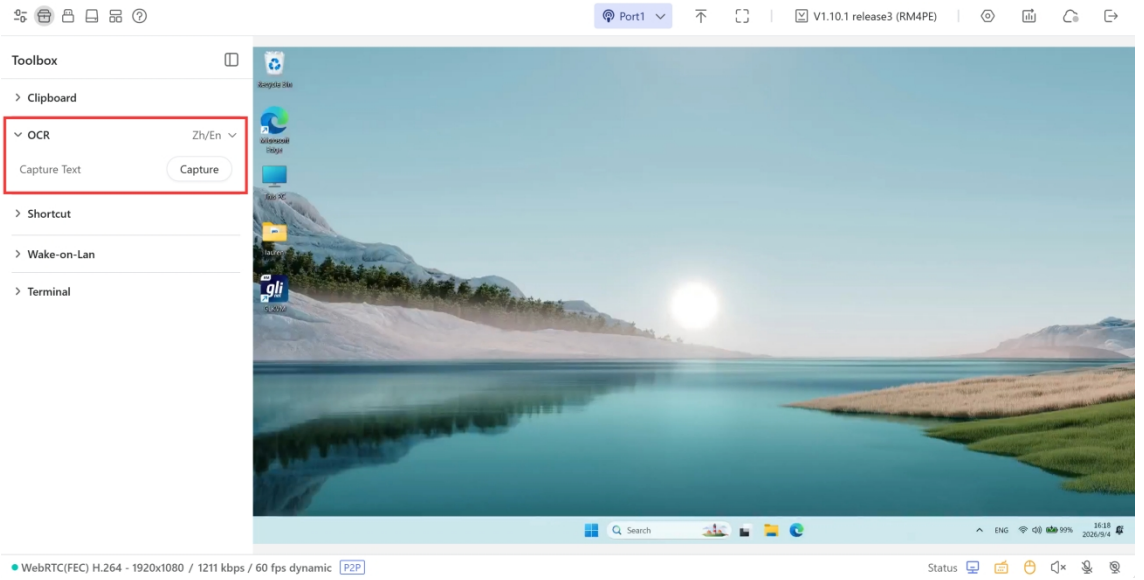
6.1 Clipboard

The clipboard allows you to easily paste text from the controlling device to the controlled device, without the need to transfer files.



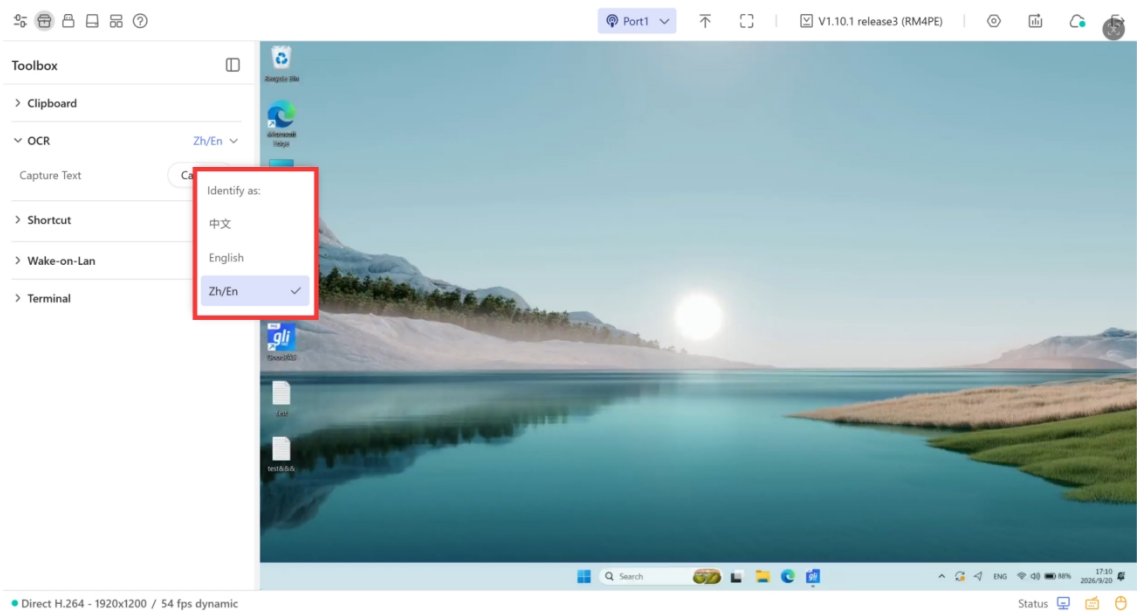
6.2 OCR

The OCR is Text Recognition feature, which allows you to select an area on the remote screen and extract text from it easily. This feature was introduced in firmware v1.9.0.

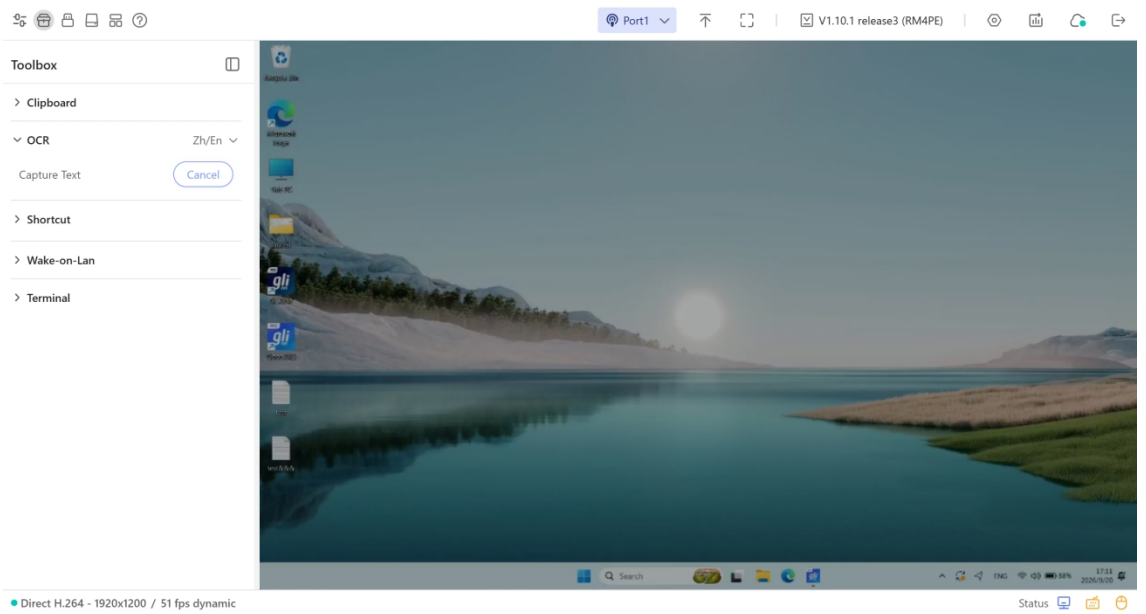


Follow the steps below to capture text.

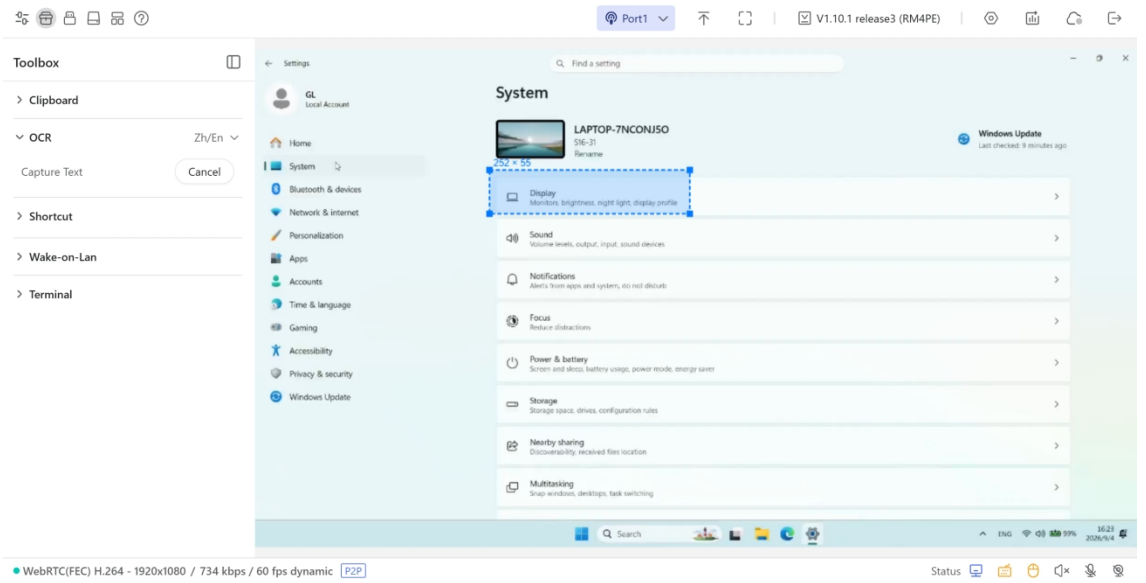
1. Log in to your KVM console. Click the downward arrow at the top menu to select your preferred recognition language, such as Chinese, English, or bilingual (Zh/En).



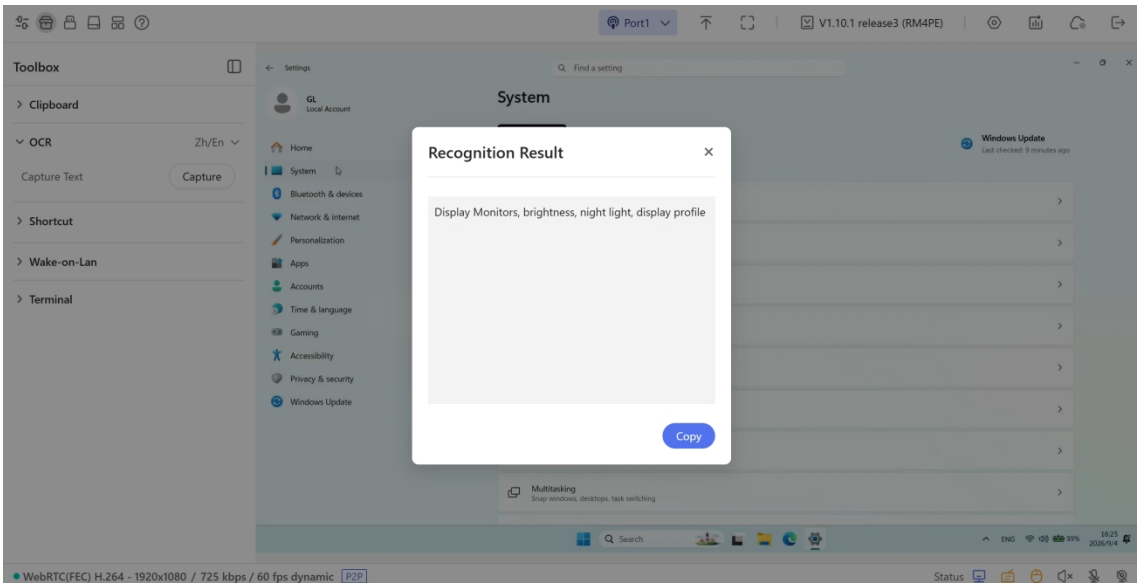
2. Click **Capture** and the remote screen will dim.



3. Draw a box around the text you want to extract, as shown below.

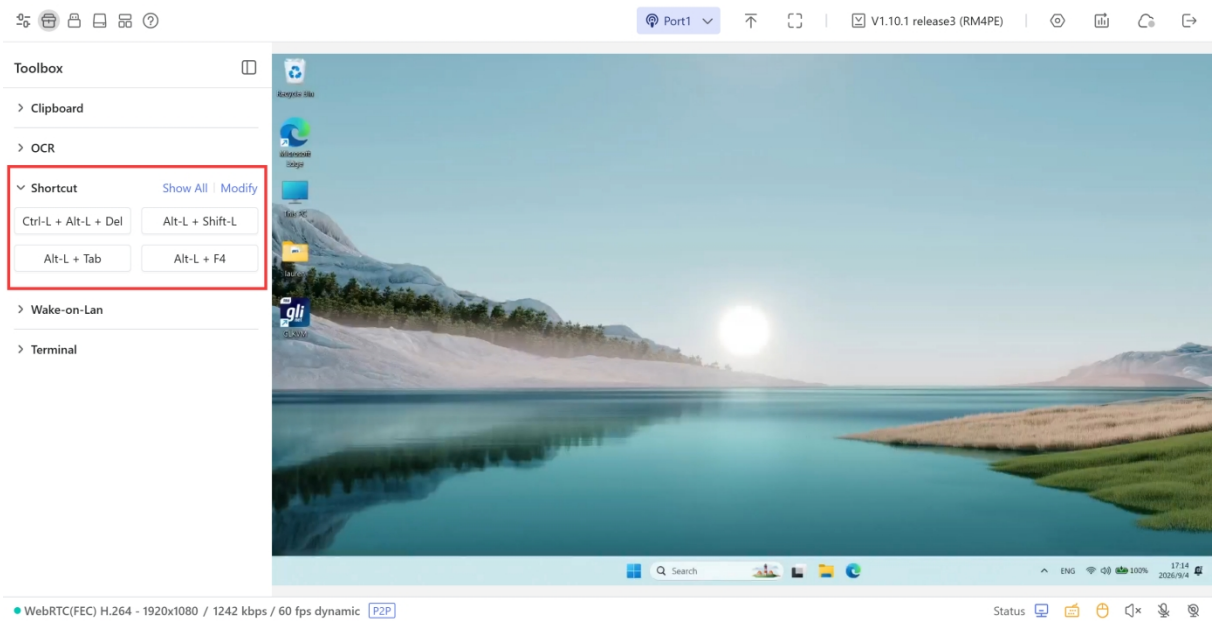


4. The system will identify the text within the selected area automatically. You can then copy the recognized text as needed.

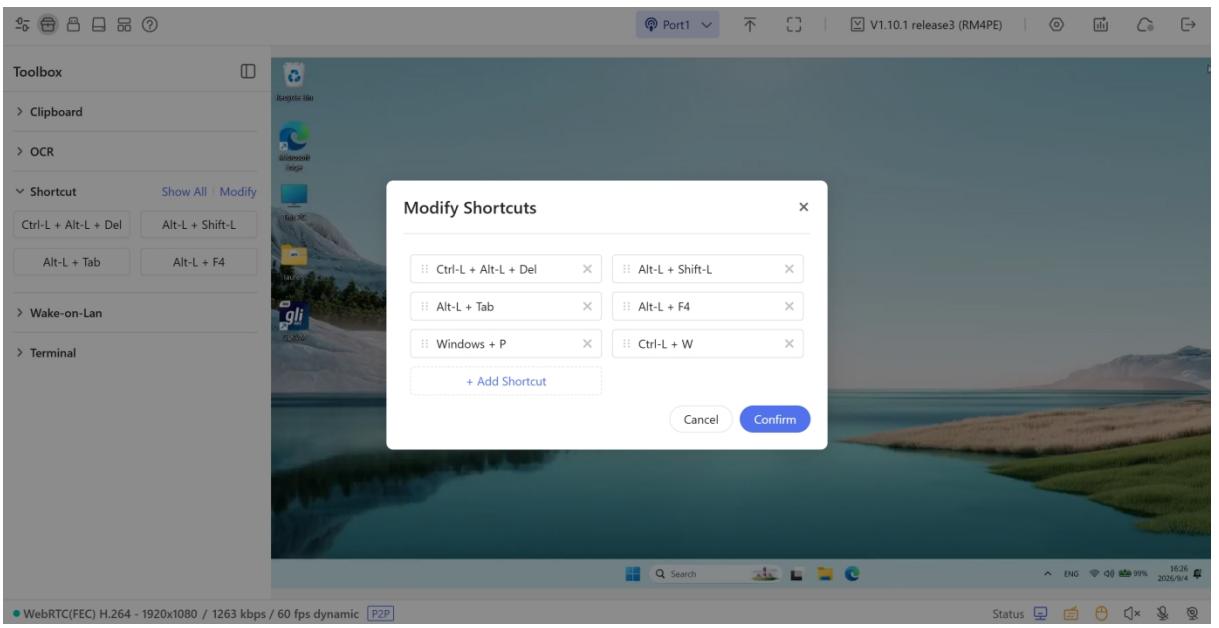

Port1
V1.10.1 release3 (RM4PE)
Toolbox
Clipboard
OCR
Zh/En
Capture Text
Capture
Shortcut
Wake-on-Lan
Terminal
Settings
Find a setting
GL
Local Account
System
Home
System
Bluetooth & devices
Network & internet
Personalization
Apps
Accounts
Time & language
Gaming
Accessibility
Privacy & security
Windows Update
Recognition Result
Display Monitors, brightness, night light, display profile
Copy
Windows Update
Last checked: 9 minutes ago
Multitasking
Snap windows, desktops, task switching
Search
WebRTC(FEC) H.264 - 1920x1080 / 725 kbps / 60 fps dynamic
P2P
Status

6.3 Shortcut

The shortcut let you perform actions faster without using the virtual keyboard, helping you work more efficiently and save time on daily tasks. You can find some common shortcuts here.



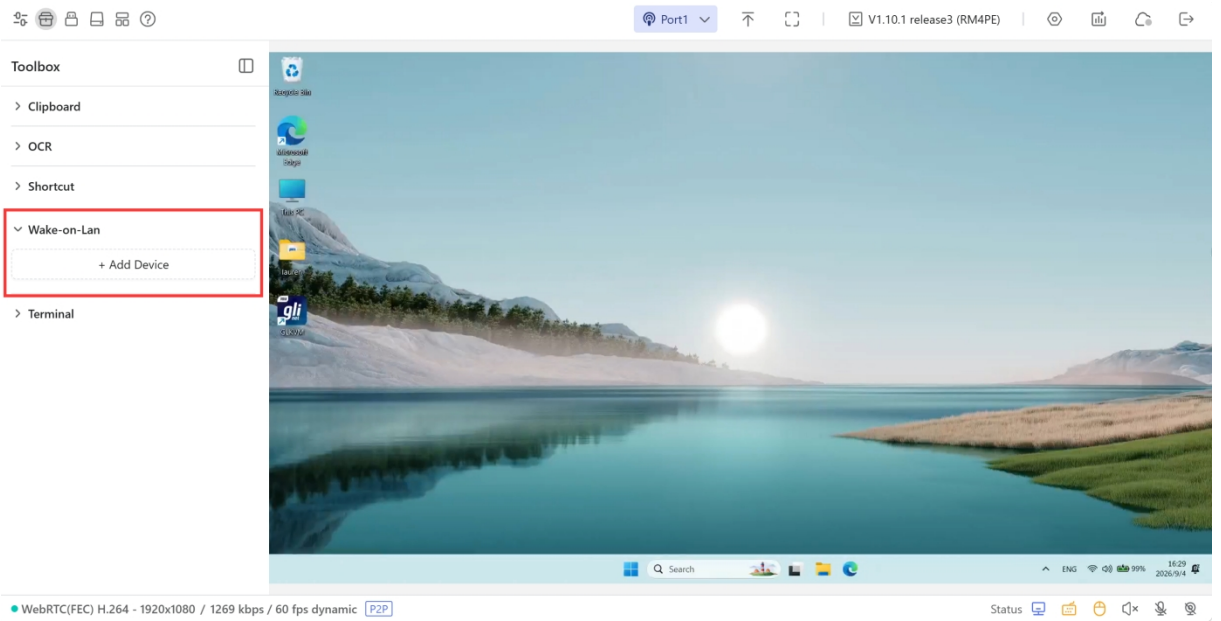
Click **Modify** to adjust the shortcuts options as needed.



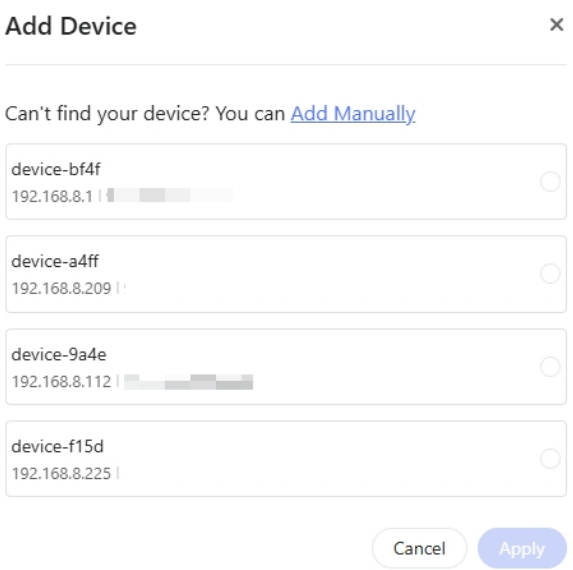
6.4 Wake-on-Lan

Wake-on-LAN (WOL) is a technology that allows the controlled device to be remotely powered on or awakened from a low-power state.

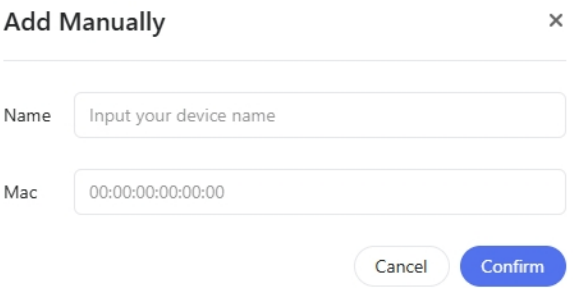
To set up Wake-on-LAN, click **Add Device**.



Choose a device from the same LAN, and click **Apply**.

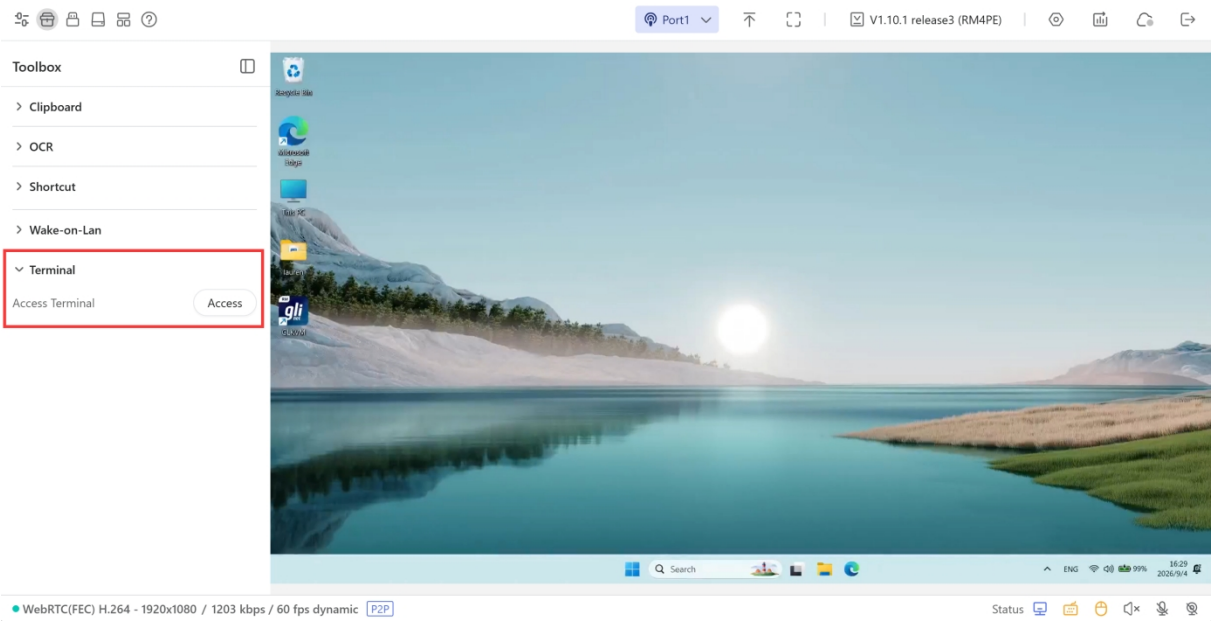


If the device you want to add is not in the list, click **Add Manually** and enter the device name and MAC address.


Add Manually
Name
Input your device name
Mac
00:00:00:00:00:00
Cancel
Confirm

6.5 Terminal

You can access the terminal to perform advanced settings. Click **Access**.



You will be redirected to the GLKVM terminal.



Chapter 7

Accessories

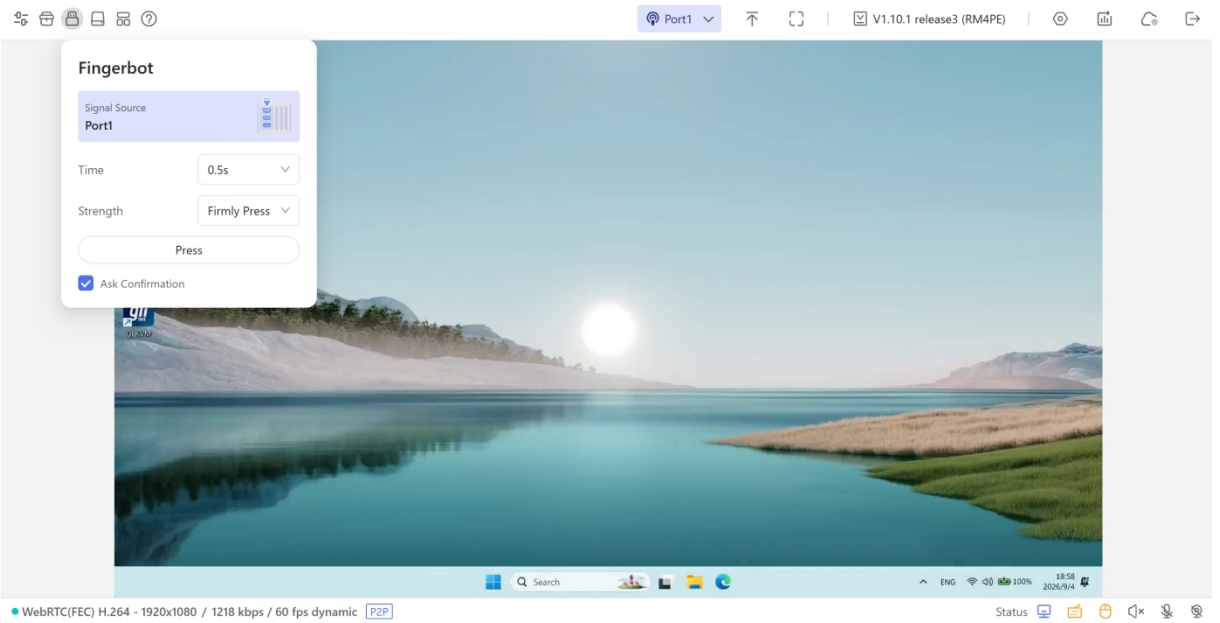
This chapter introduces the usage of two optional KVM accessories (not included): Fingerbot and ATX board.

7.1 Fingerbot

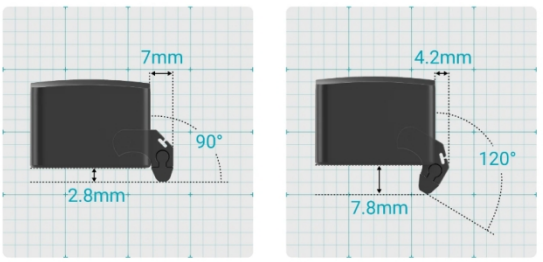
The Fingerbot is adhered to the physical power button of the controlled device, to achieve remote control of the controlled device's power supply.

Follow the steps below to install and set up your Fingerbot.

1. Refer to the setup video here to connect the Fingerbot to your controlled device.
2. Log in to the KVM console, and navigate to **Accessories**.



3. You can achieve different effects by adjusting the pressing duration and intensity.
   - **Time**: The press duration of the Fingerbot. You can set it to 0.5s/3s/8s.
   - **Strength**: There are two levels of pressing strength: Lightly Press and Firmly Press. Lightly Press is perfect for short or soft-touch buttons, while Firmly Press is ideal for deep or firm buttons.



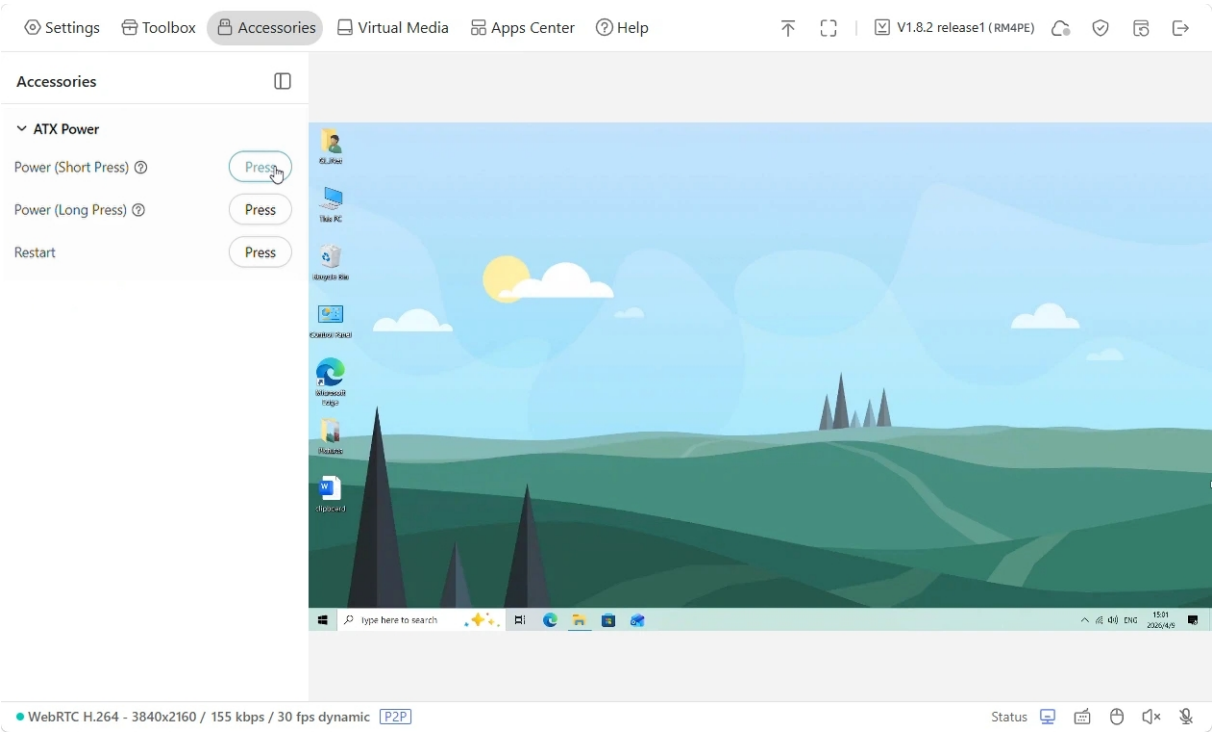
Light Press Mode
Perfect for short or soft-touch buttons

Hard Press Mode
Ideal for deep or firm buttons

7.2 ATX Board

The ATX Board is installed in the computer case to remotely control the device's power on/off/reboot.

It works according to the settings on the console.



- **Power (Short Press)**: Used for regular power-on or system wake-up.
- **Power (Long Press)**: Performs a forced shutdown operation.
- **Restart**: Restart the device.

Chapter 8

Virtual Media

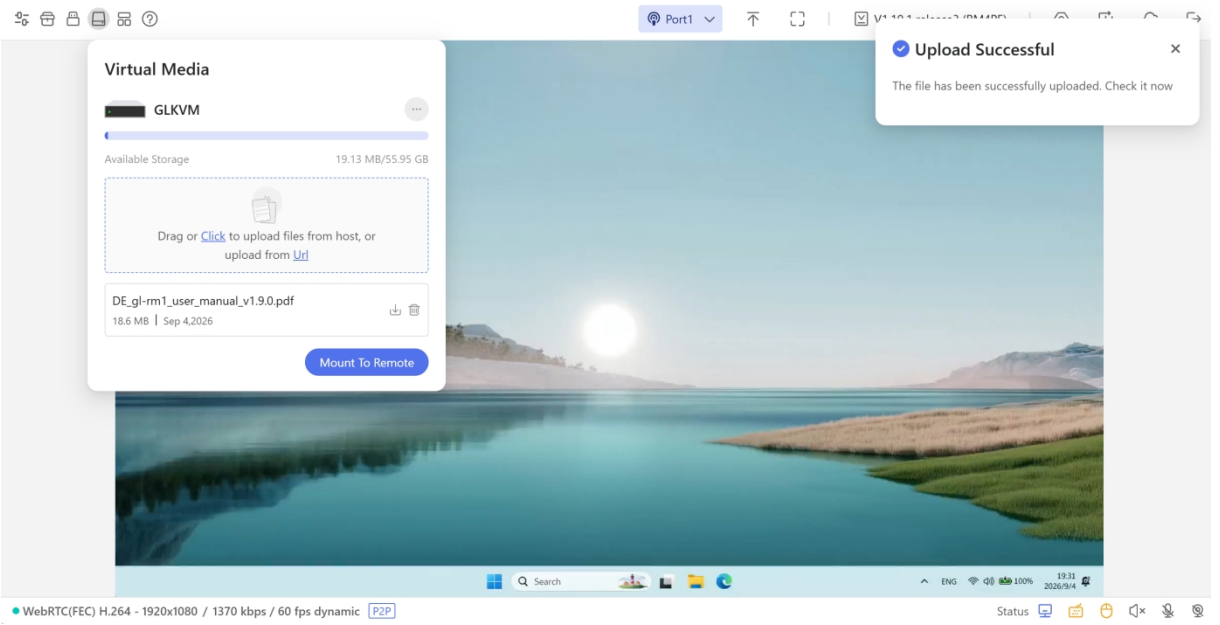
This chapter introduces the virtual media feature, allowing you to transfer files between the controlling and controlled device.

8.1 File Sharing

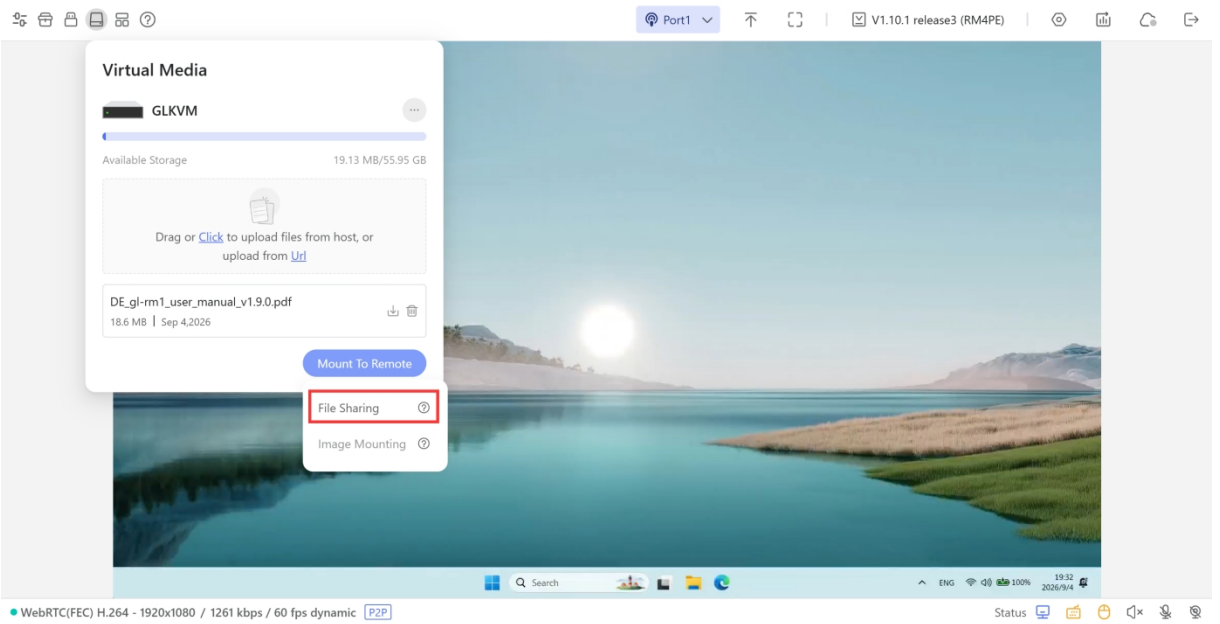
Comet X can emulate a read-write USB drive, allowing you to share and manage files between the controlling device and the controlled device.

Follow the steps below to share files between the controlling and controlled device.

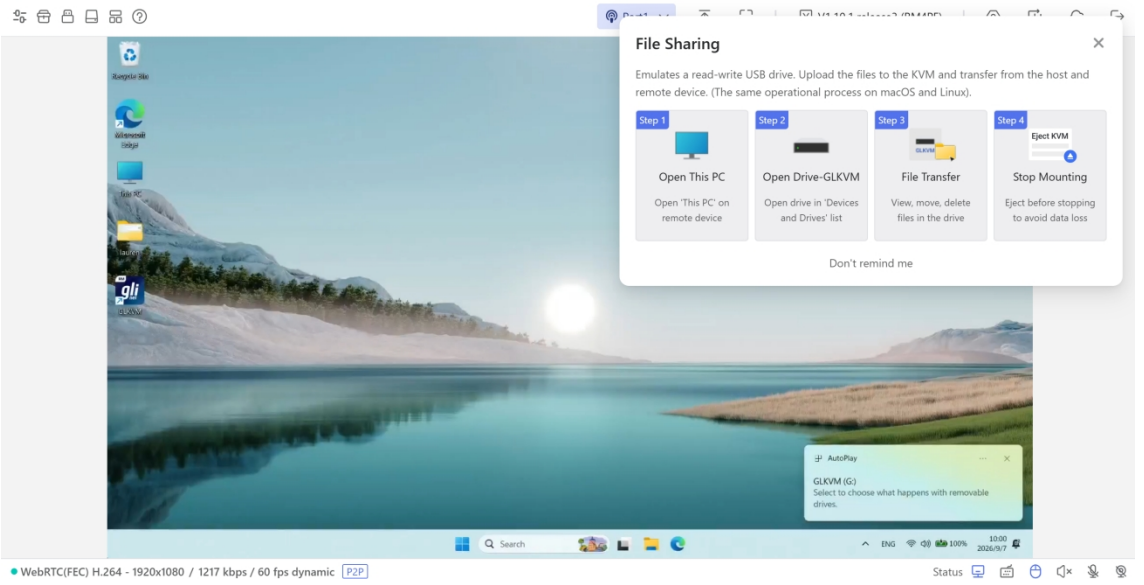
1. On your controlling device, log in to the KVM Web console and navigate to **Virtual Media**. Drag or click the box to upload files.



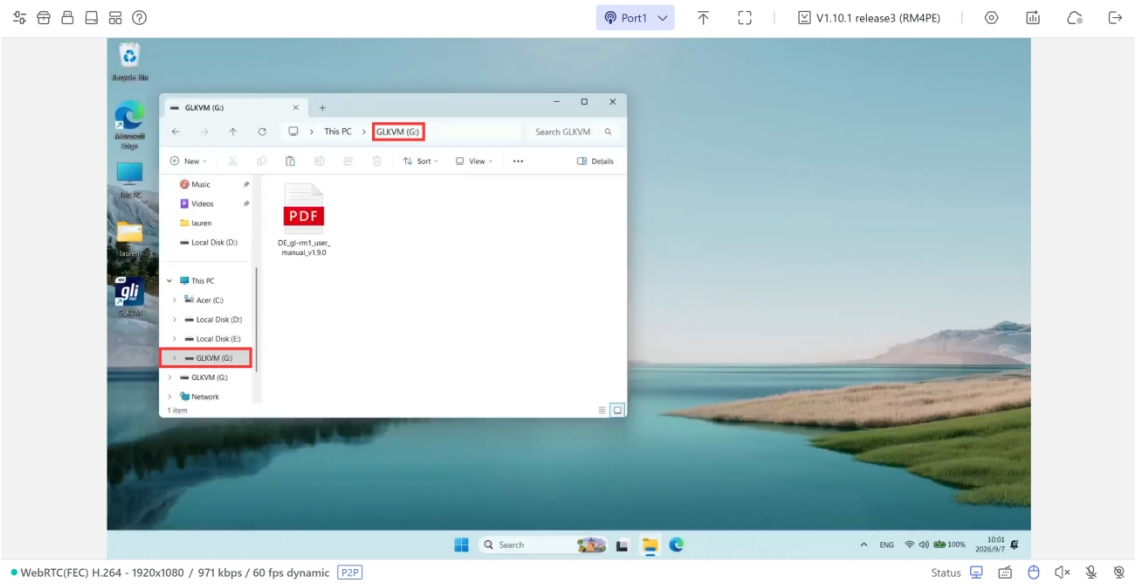
2. Click **Mount To Remote** > **File Sharing**.



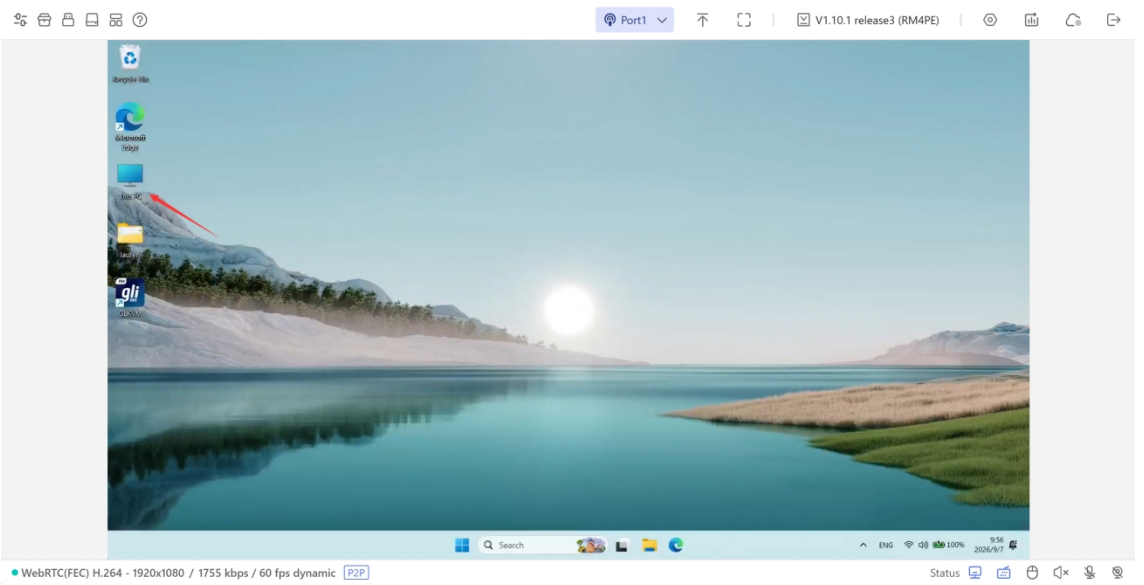
3. A window will pop up on the console indicating the file sharing steps, as shown below.



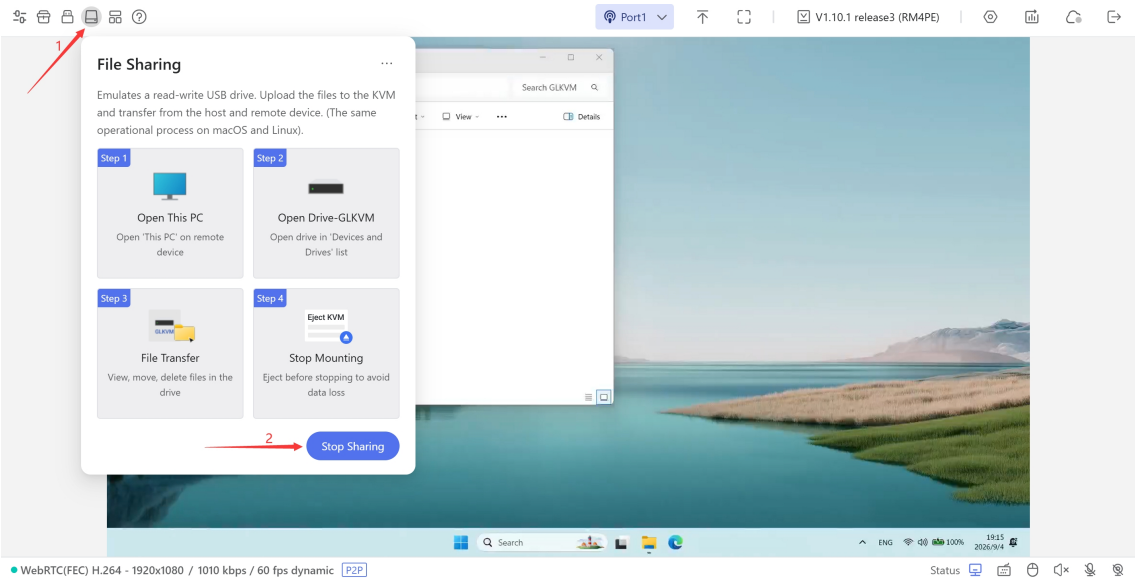
4. Wait a second, and a drive named "GLKVM" will pop up on the screen automatically. You will then see the files you previously uploaded from the controlling device to Comet X have been shared to the controlled device. Now you can view, move or delete the files in this drive on the controlled device.



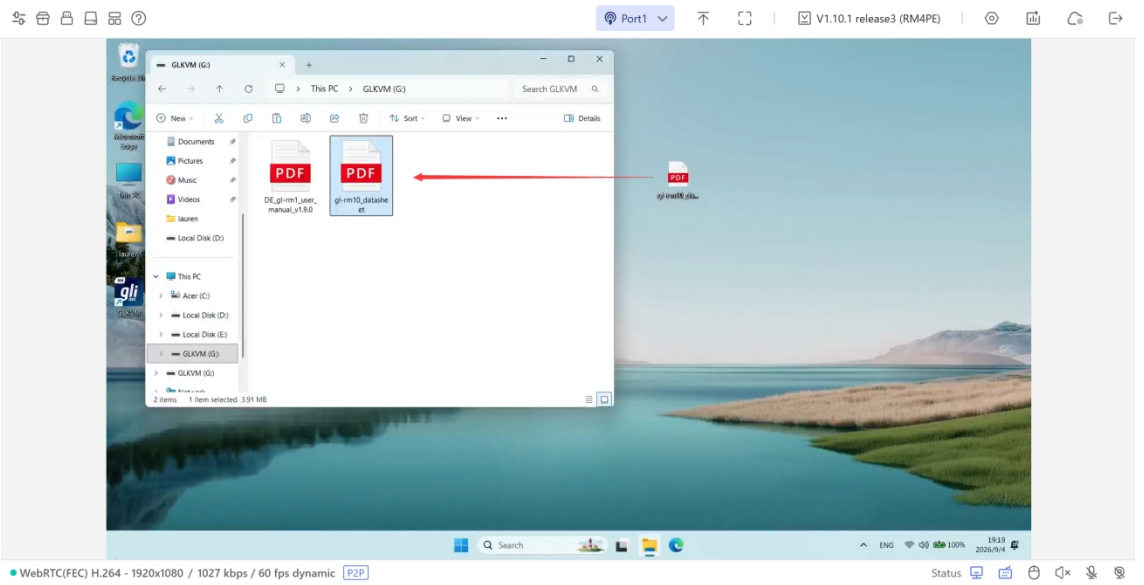
Tip: If the drive does not pop up automatically, go to **This PC** of your controlled device and find a drive named GLKVM. Then you can view, move or delete the files in this drive.



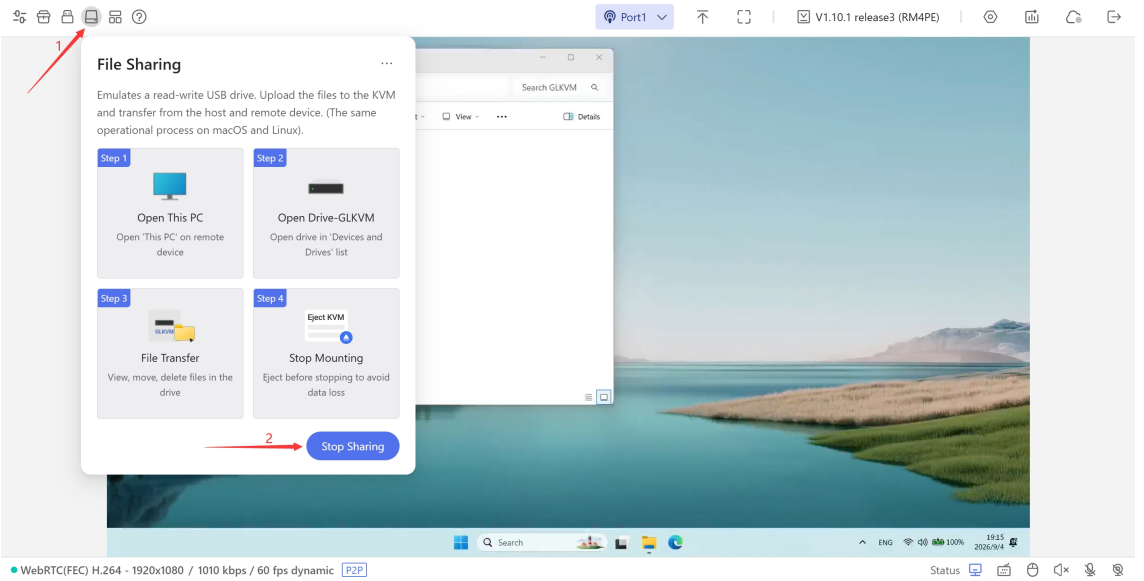
5. If you want to stop sharing, click **Virtual Media** in the toolbar and click **Stop Sharing**.



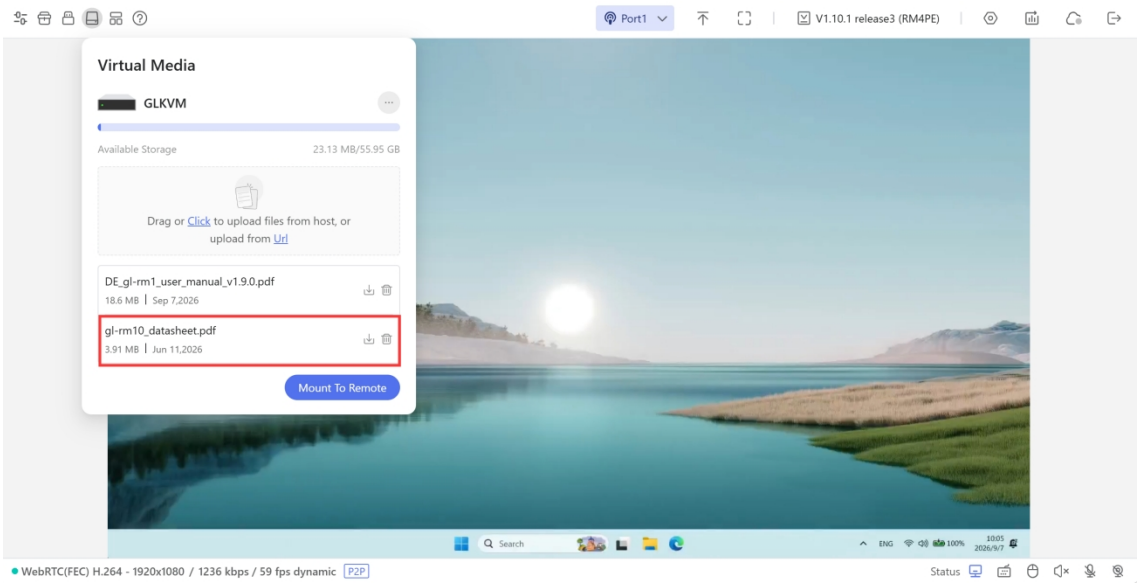
6. To share files from the controlled device to the controlling one, move or copy the files you want to share from the controlled device into the drive **GLKVM**. For example, a PDF file named "gl-rm10_datasheet" has been copied from the controlled device's Desktop into the disk GLKVM.



7. Turn to the Comet X's console, click **Virtual Media** in the toolbar and click **Stop Sharing**.



8. This file will then be displayed under the **Virtual Media**, as shown below. Now you can download this file from Comet X to your controlling device.

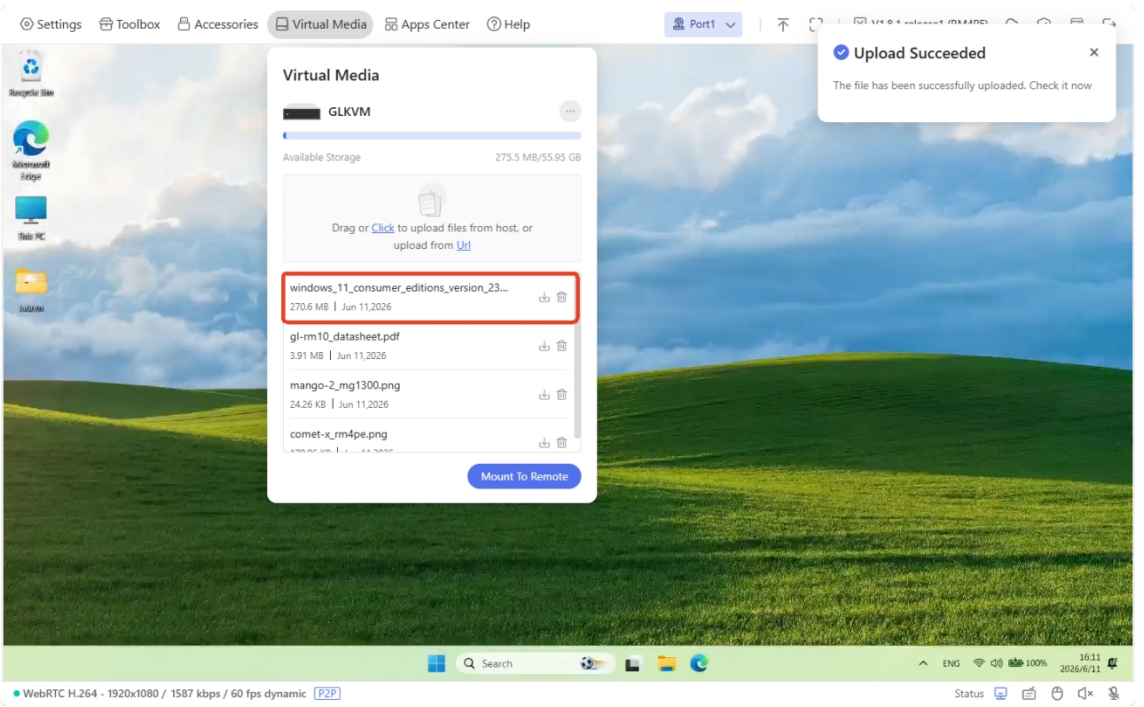

Port1
V1.10.1 release3 (RM4PE)
Virtual Media
GLKVM
Available Storage
23.13 MB/55.95 GB
Drag or Click to upload files from host, or upload from Url
DE_gl-rm1_user_manual_v1.9.0.pdf
18.6 MB | Sep 7,2026
gl-rm10_datasheet.pdf
3.91 MB | Jun 11,2026
Mount To Remote
WebRTC(FEC) H.264 - 1920x1080 / 1236 kbps / 59 fps dynamic
P2P
Status

8.2 Image Mounting

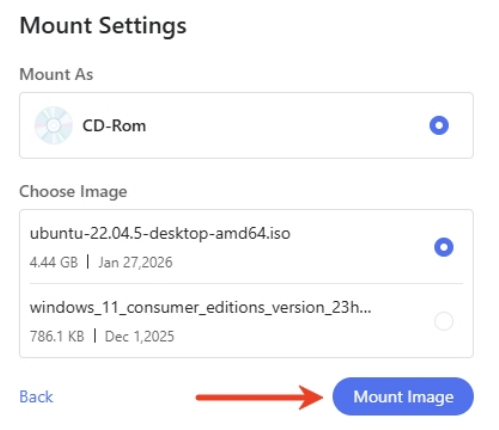
Comet X can simulate a read-only virtual CD/DVD or disk drive on the device being controlled. You can access this drive during the BIOS or UEFI startup process. This function can help you reinstall the operating system or mount an ISO to install applications on the device being controlled, or perform other tasks.

Follow the steps below to mount image.

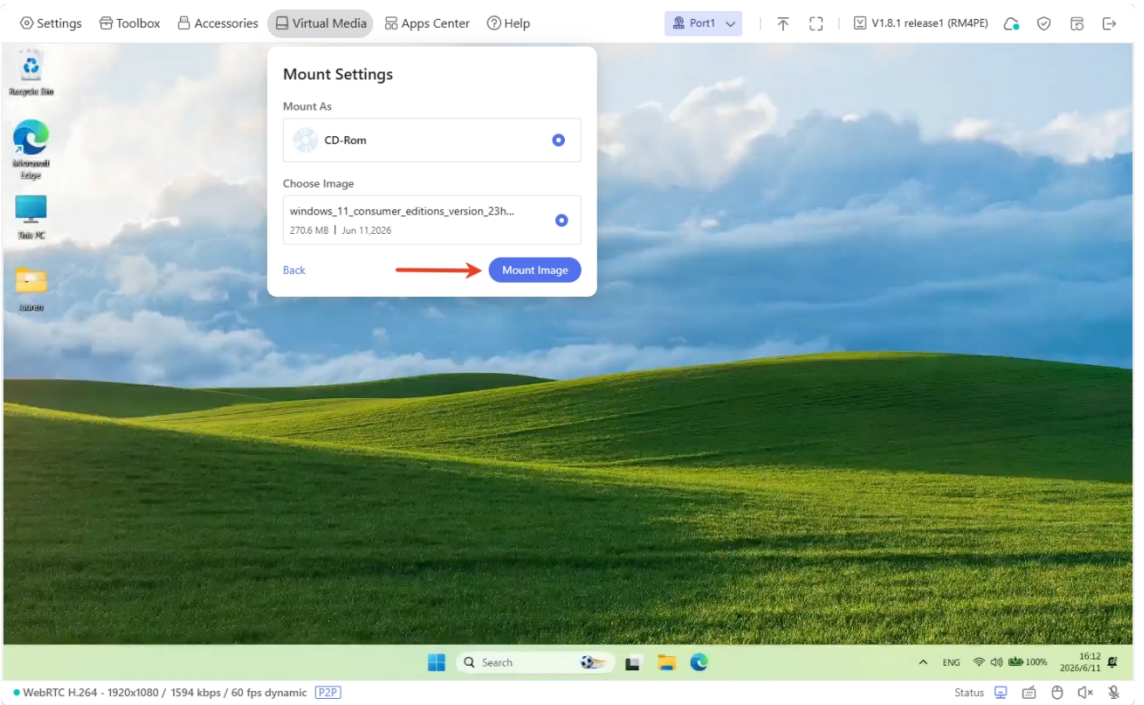
1. Drag or click the box to upload files. **Ensure this file can be mounted as an iso format**. Once uploaded, the files will be displayed as follows.



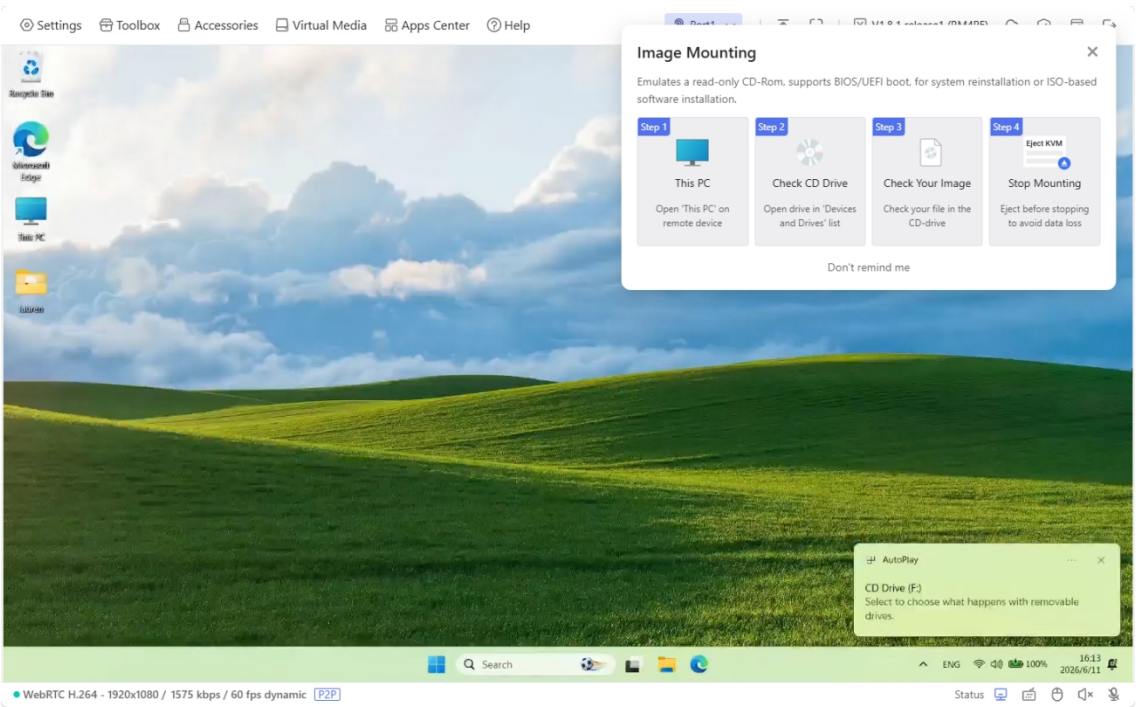
2. Select the file and click **Mount Image**.



3. A window will pop up on the console indicating the mounting steps, as shown below.

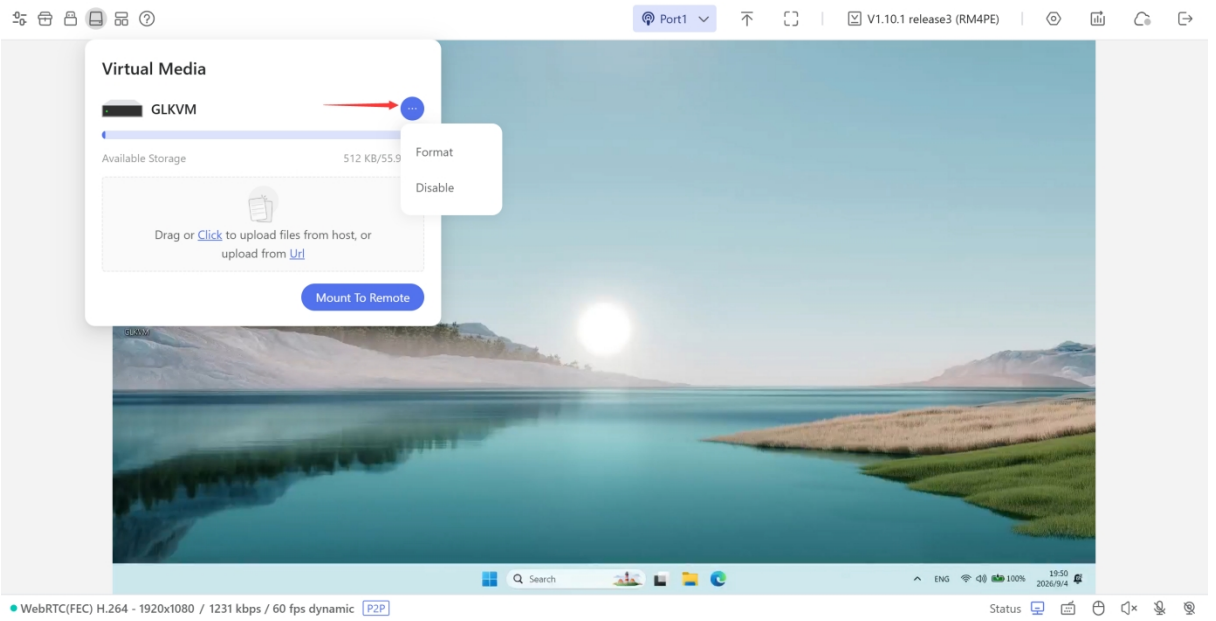


4. Now you can use this file from the CD drive on the controlled device.



8.3 Format Disk

You can format the disk or disable the virtual media with one click.



Chapter 9

Apps Center

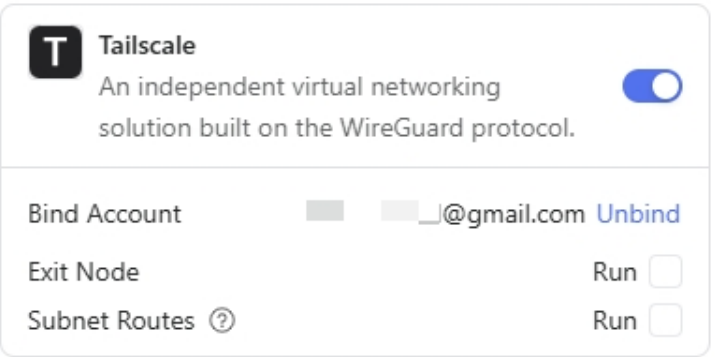
This chapter introduces some applications integrated in GL.iNet KVM console.

9.1 Tailscale

Tailscale is a WireGuard-based mesh VPN service that builds encrypted peer-to-peer private networks across devices without port forwarding or complex firewall setup.

Comet X integrates with Tailscale, allowing you to remotely access it through Tailscale virtual network. Simply bind Comet X and your controlling device to the same Tailscale account, then you can remotely access your Comet X by entering its Tailscale virtual IP in a web browser on the controlling device, without installing the GLKVM app. See here for details.

After binding, the console displays the linked Tailscale account and unlocks advanced features including Exit Node and Subnet Routes.

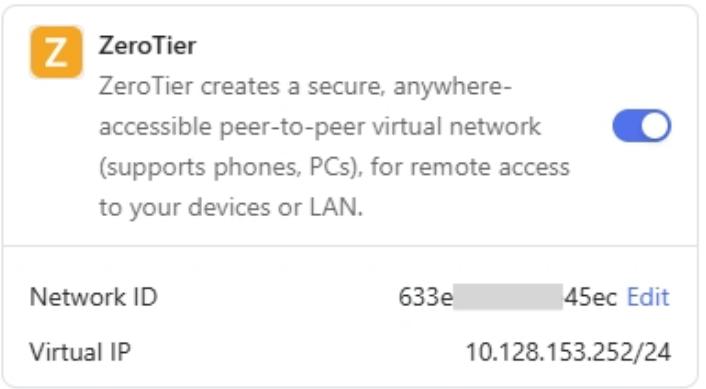


9.2 ZeroTier

ZeroTier creates encrypted overlay virtual networks to connect scattered devices globally as if they are inside the same local area network.

Comet X integrates with ZeroTier, allowing you to remotely access it through ZeroTier virtual network. Simply join Comet X and your controlling device to the same ZeroTier network, then you can remotely access your Comet X by entering its ZeroTier IP in a web browser on the controlling device, without installing the GLKVM app. See here for details.

After binding, the console displays the ZeroTier Network ID and Virtual IP.

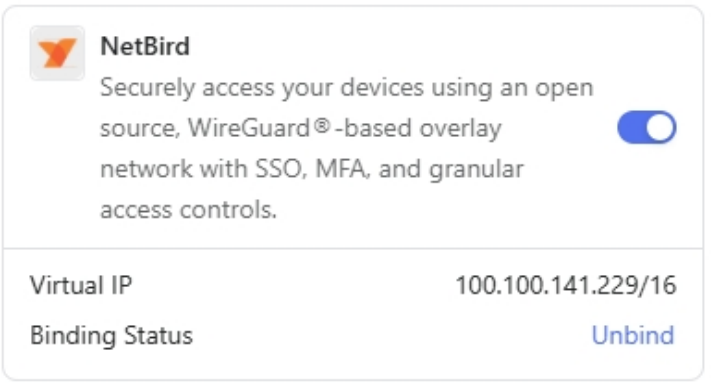


9.3 NetBird

NetBird is an open-source zero trust networking platform that lets you build secure private networks for home and business use. As a WireGuard®-based overlay network, NetBird enables secure access to your devices anytime and anywhere.

Comet X integrates with NetBird, allowing you to remotely access it through NetBird virtual network. See here for details.

After binding, the console displays the NetBird Virtual IP.



Chapter 10

System Tools

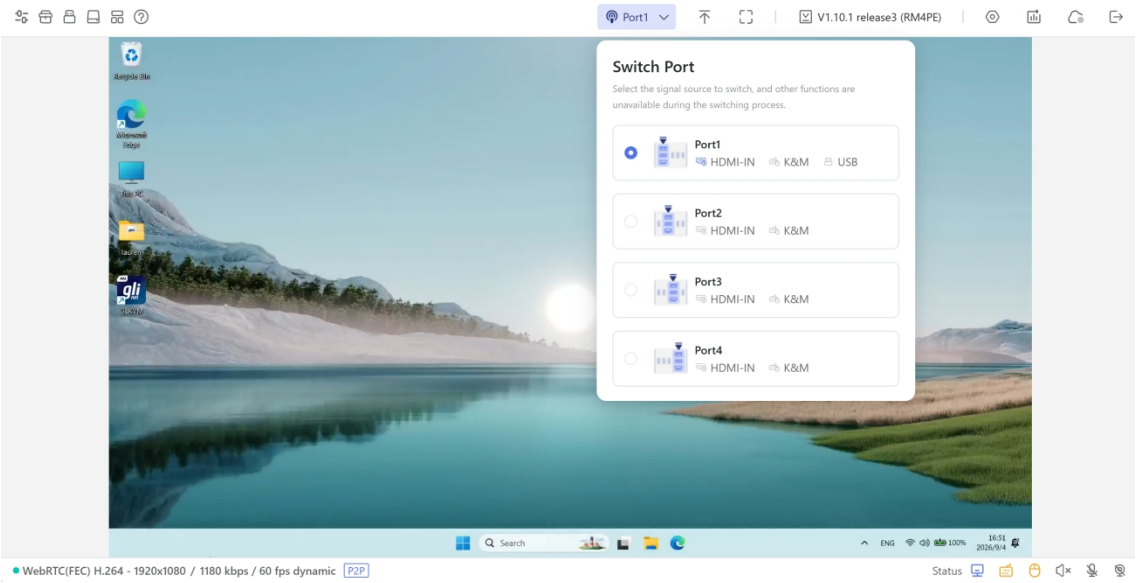
This chapter describes the system tools on the top menu bar of the KVM Web console.

10.1 Switch Signal

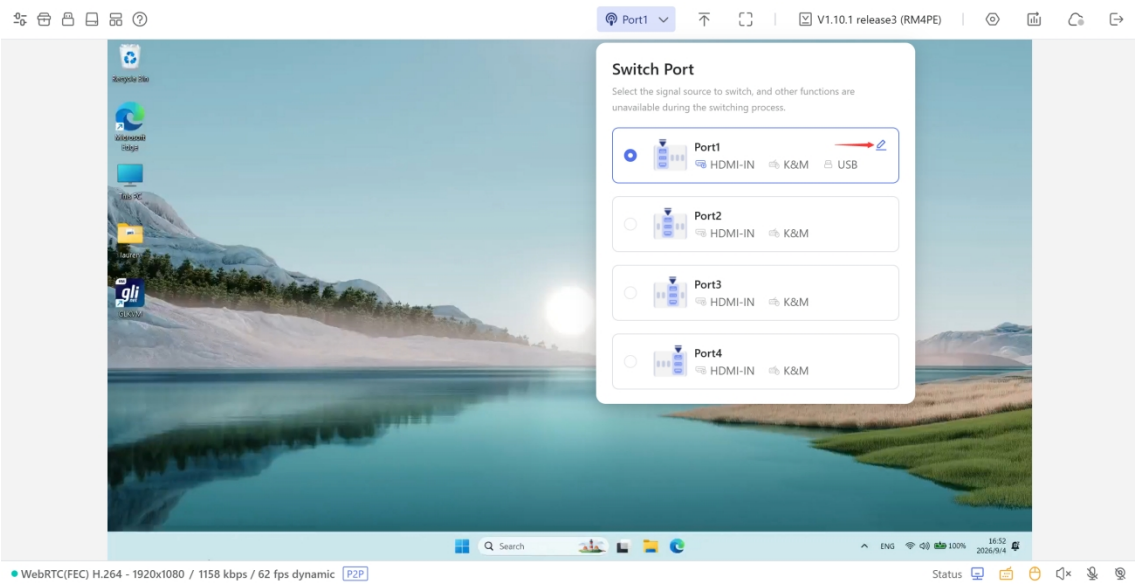
Comet X can connect to up to 4 servers for local or remote control. Only one server can be controlled at a time, while all other connected servers remain in standby mode.

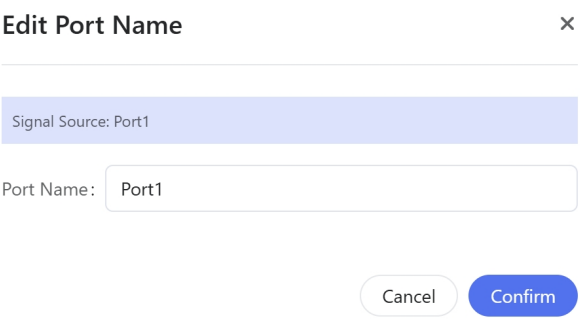
You can quickly switch signal sources via the touchscreen or the KVM console. Below are the steps to switch signal sources on the KVM console.

1. Click the Port button in the top right corner.
2. Select the target signal source. Note that functions will be unavailable during the switching process.



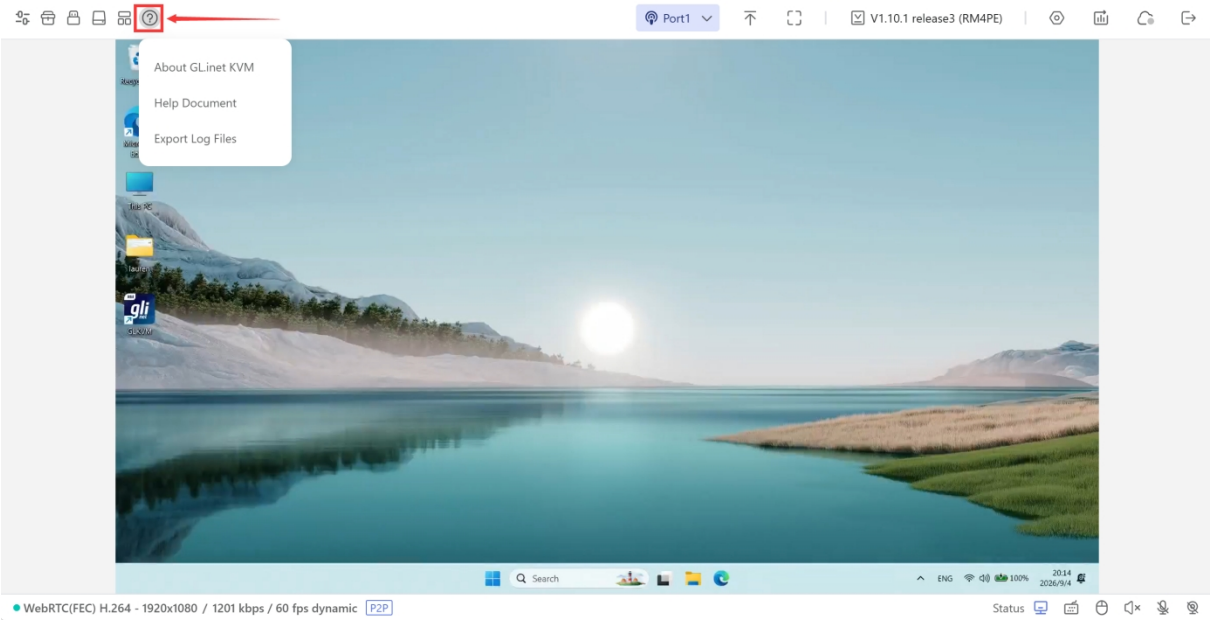
3. (Optional) Customize the port name as needed.





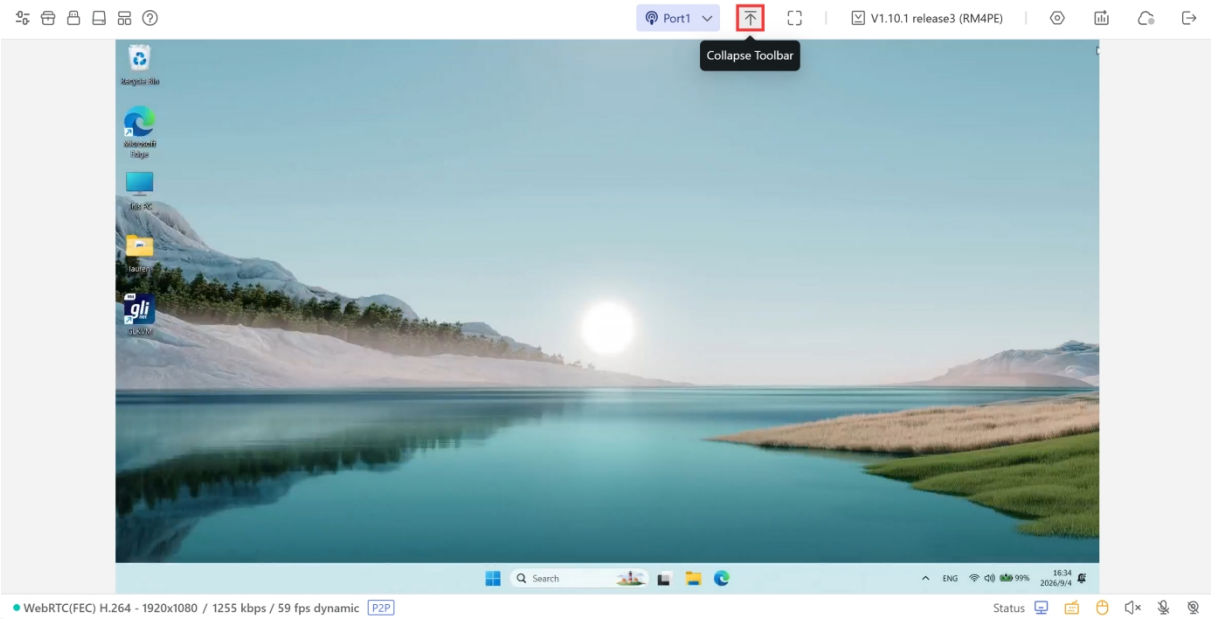
10.2 Export Log

Log in to the KVM Web console and navigate to **Help**. You can find more information about GL.iNet KVM and help documentation, as well as export logs for troubleshooting.

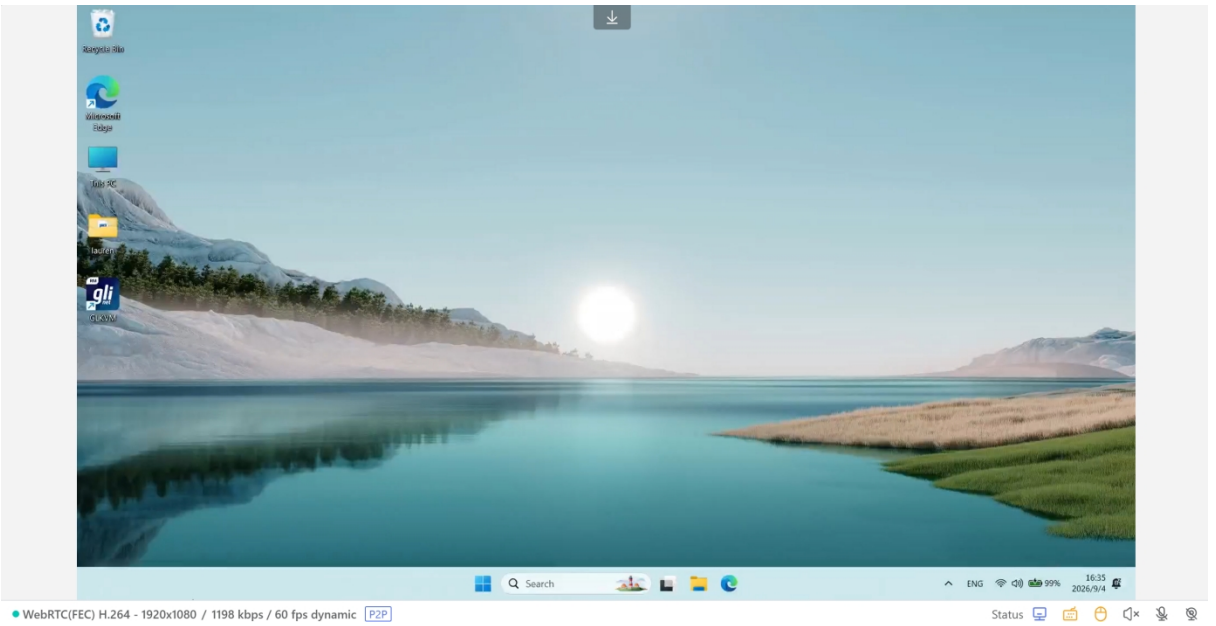


10.3 Collapse

Click the upward arrow icon in the top right corner to collapse the toolbar.

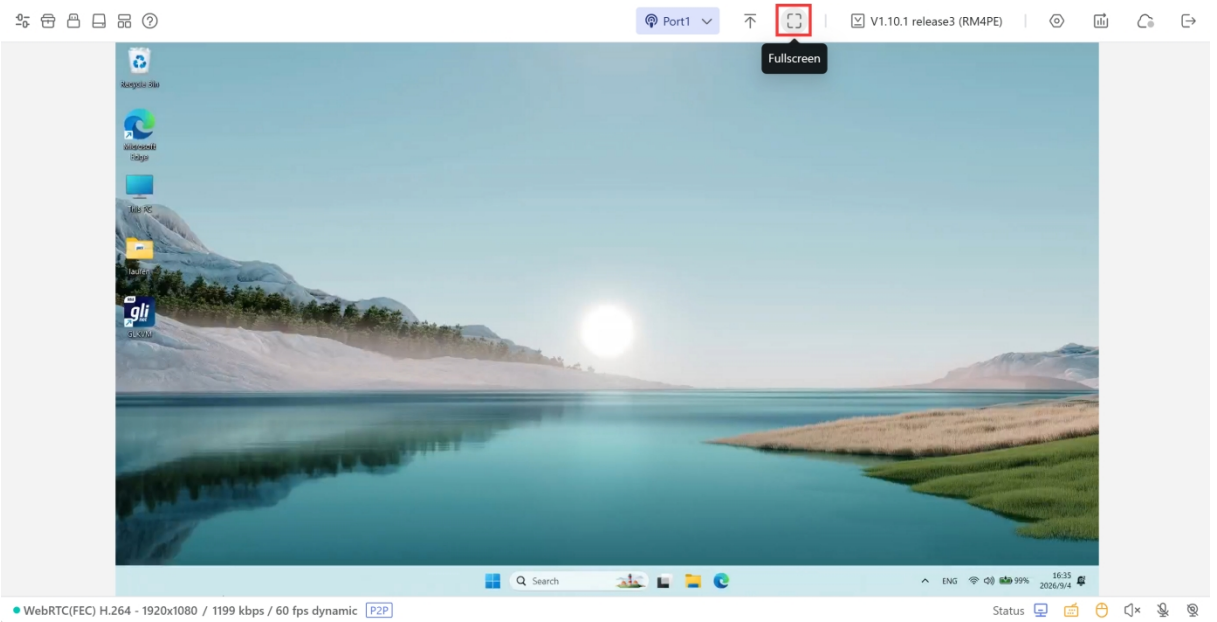


When the toolbar is folded, click the downward arrow icon at the top to expand it.

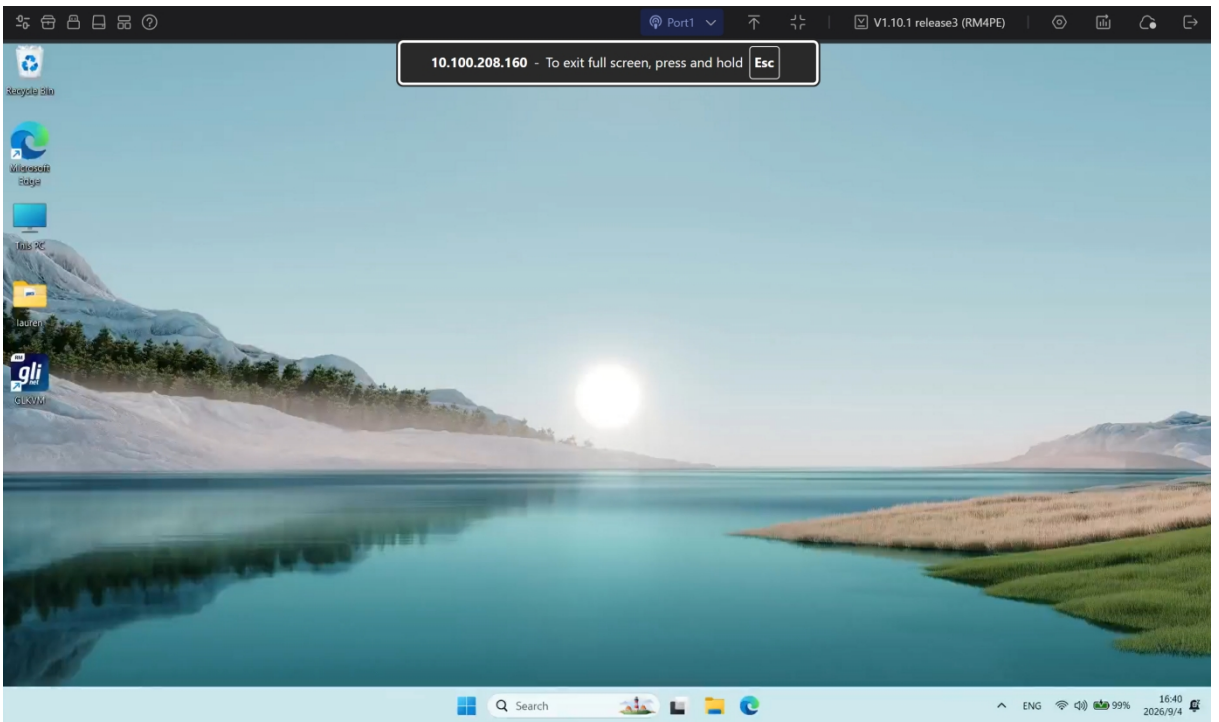


10.4 Fullscreen

Click the fullscreen icon (square-shaped) in the top right corner to switch to fullscreen mode.

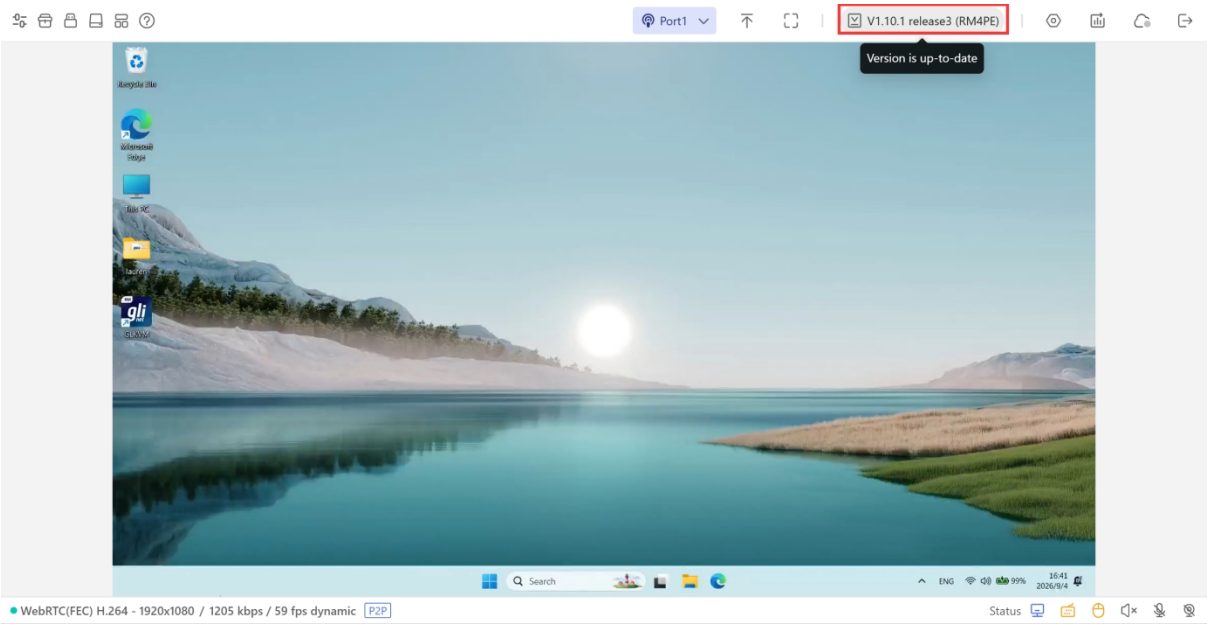


To exit fullscreen, press and hold the **Esc** key, or click the exit fullscreen icon (grid-shaped) in the upper right corner.

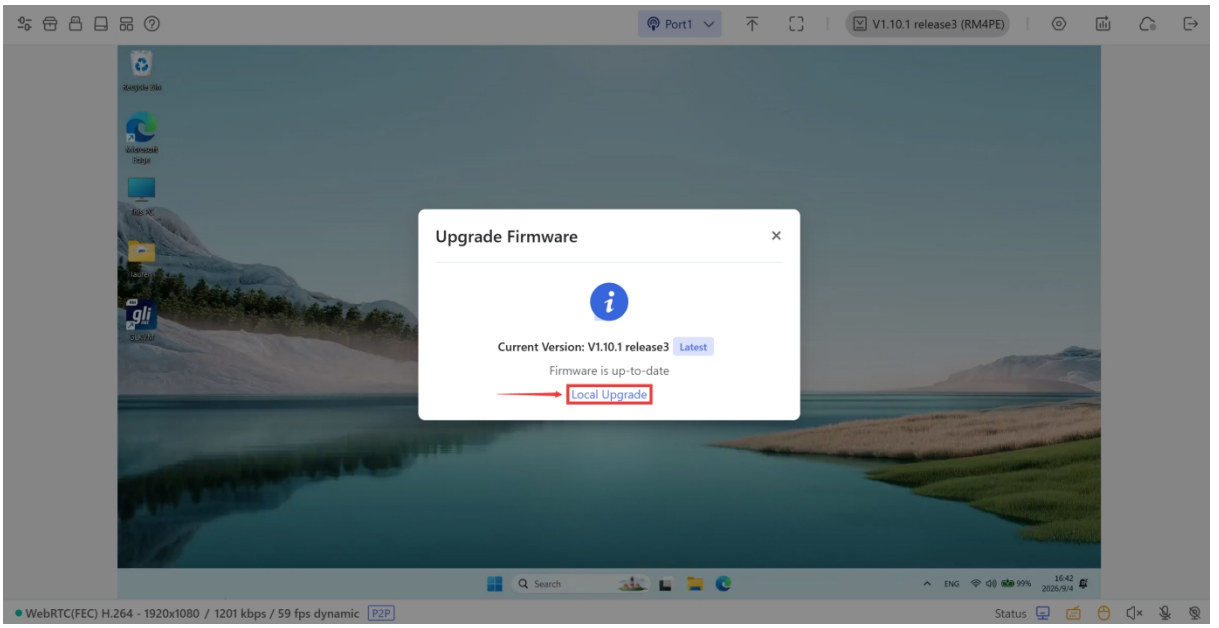


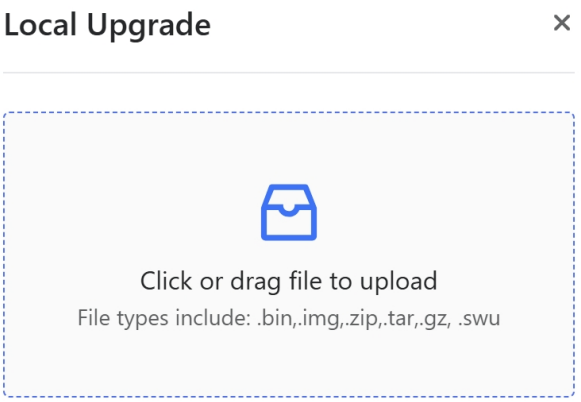
10.5 Upgrade

Click the firmware version in the upper right corner to check for updates.



In the pop-up window, you can click **Local Upgrade** to upload a firmware file.



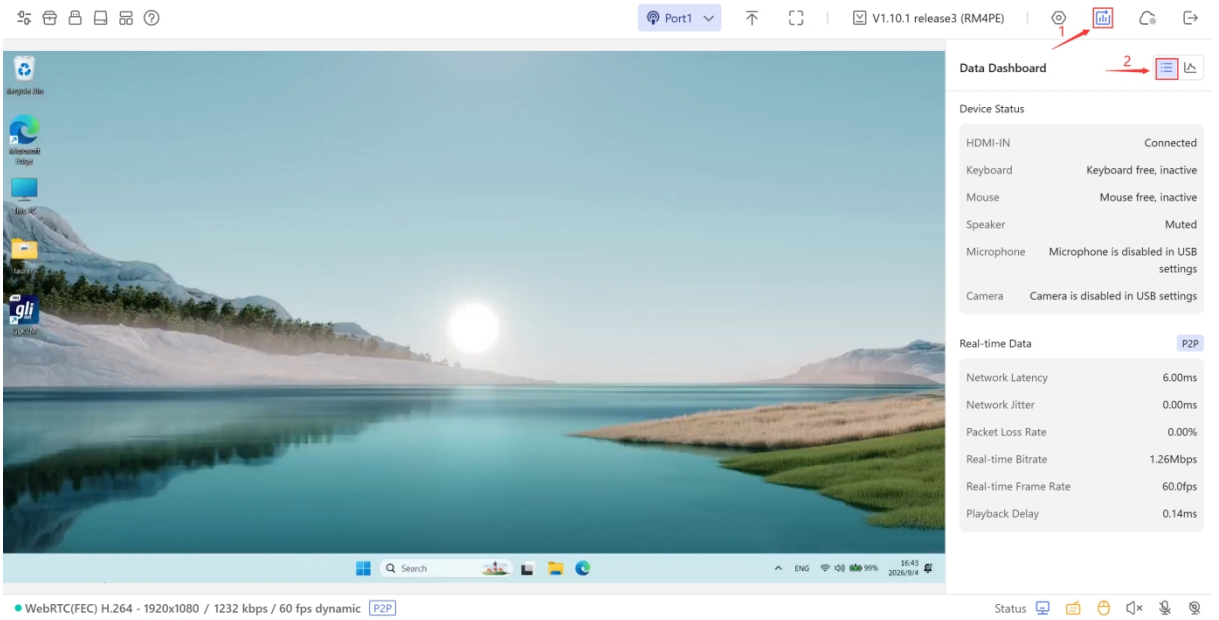


Tip: Download the latest firmware from the Firmware Download Center before performing a local upgrade.

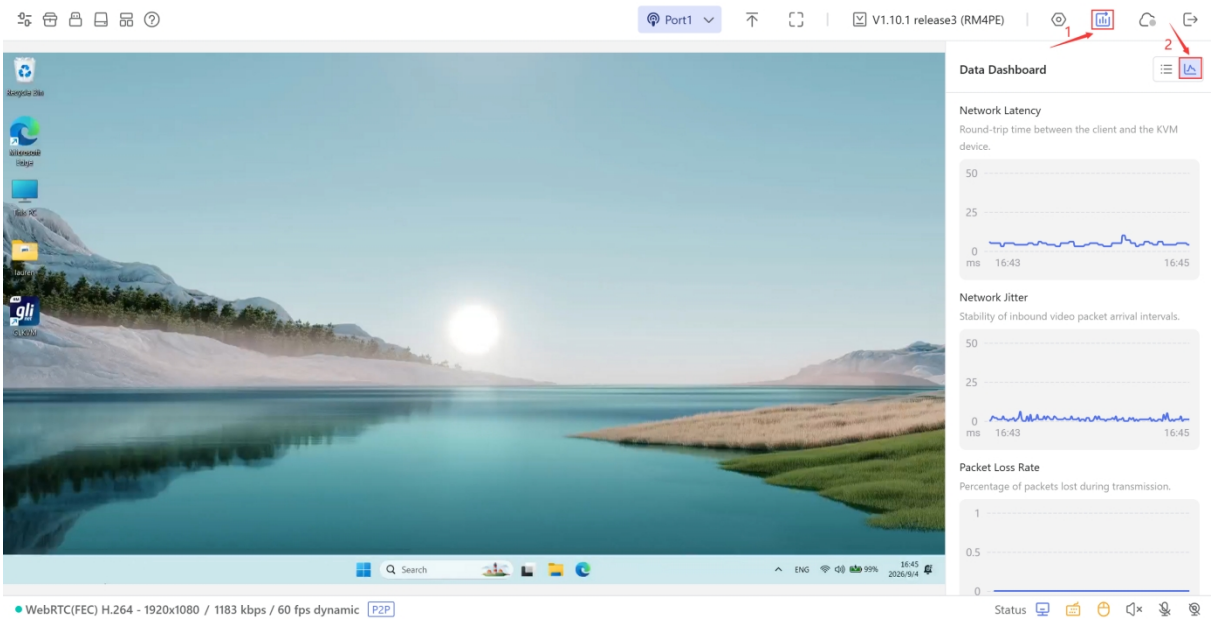
10.6 Connection Stats

The Connection Stats contains a Data Dashboard, which monitors latency, jitter, and other real-time metrics.

Click the List icon to display the device status and real-time data.



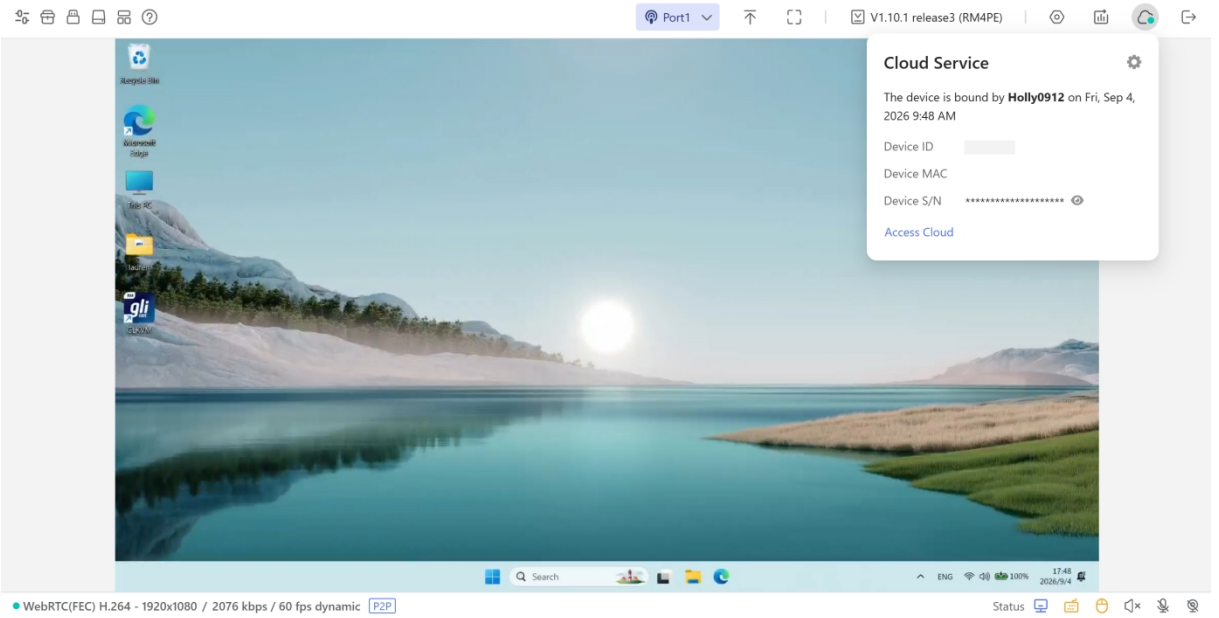
Click the chart icon to view statistical data, including network latency, network jitter, packet loss rate, real-time frame rate, and playback delay.



10.7 Cloud Service

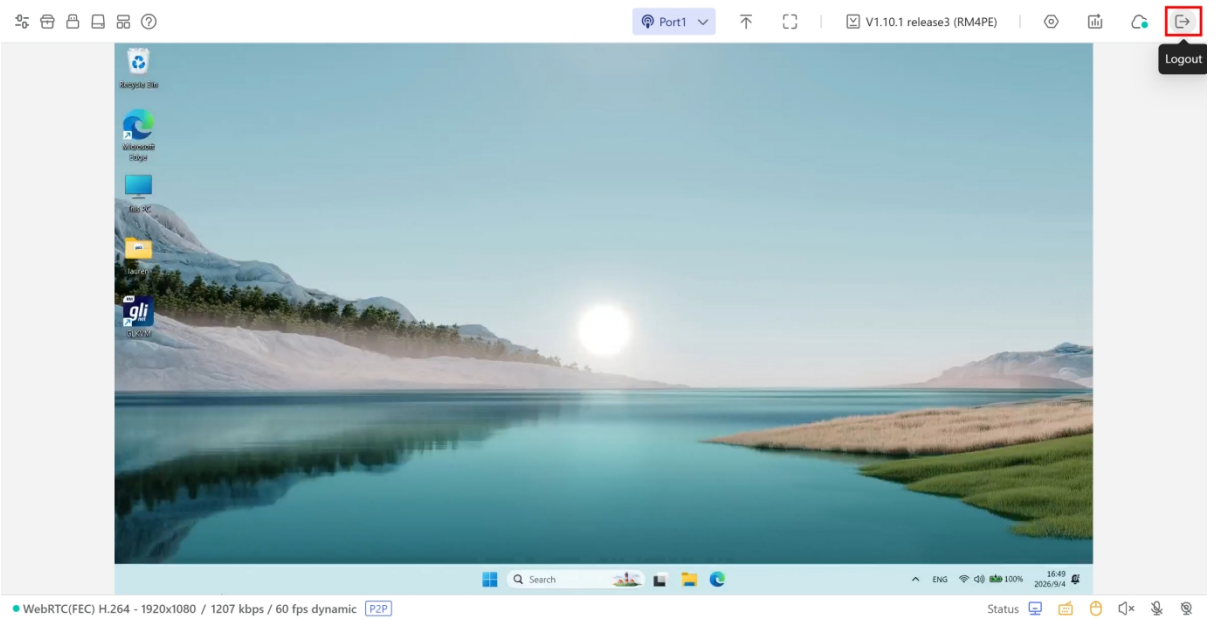
GL.iNet KVM Cloud allows you to access the controlled device remotely. See here for details.

Once your Comet X is bound to the Cloud, the console will display the cloud status as follows.



10.8 Logout

To log out, click the Logout icon.



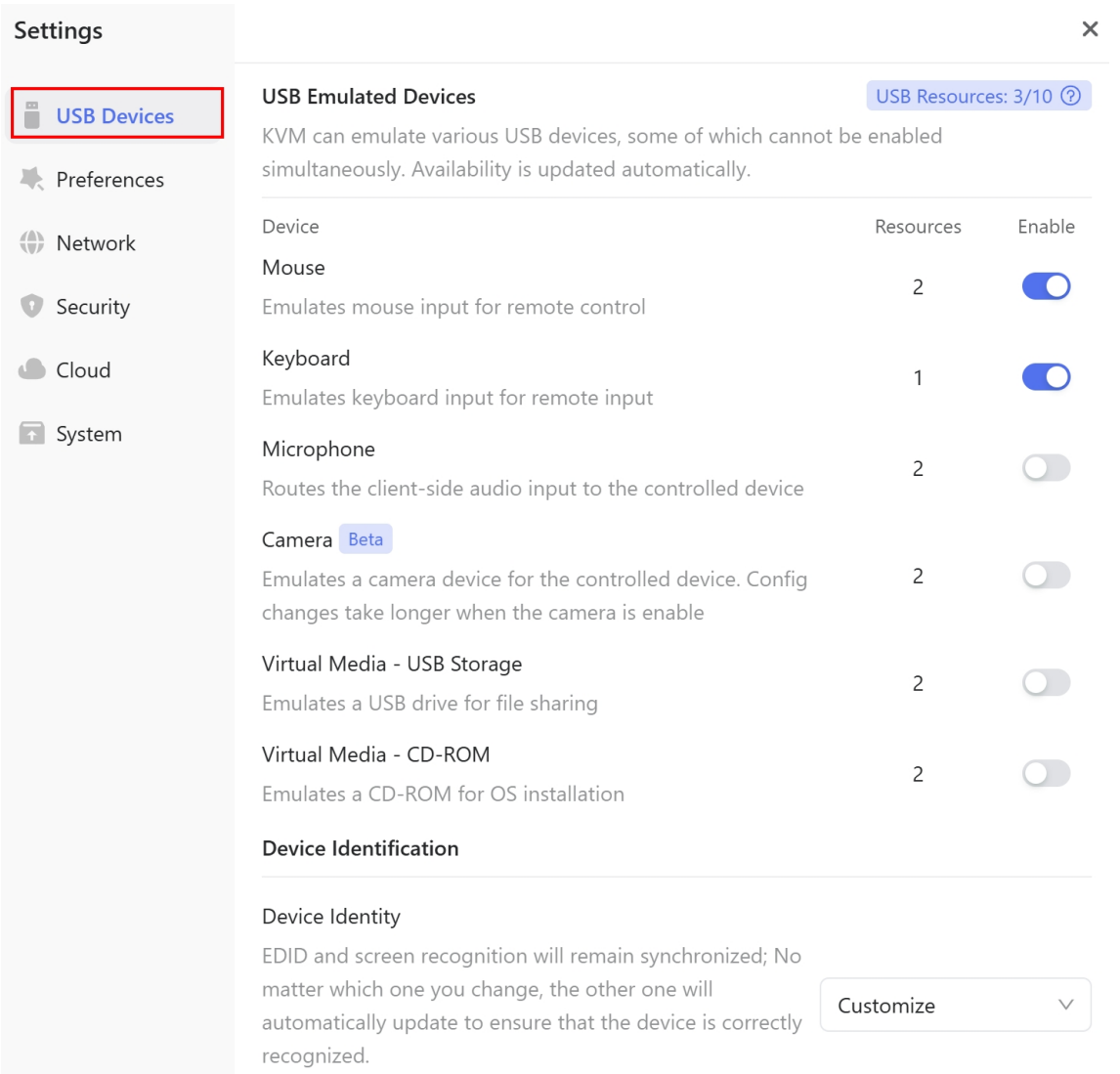
Chapter 11

System Settings

This chapter describes the system settings of the KVM Web console , allowing you to configure some system options.

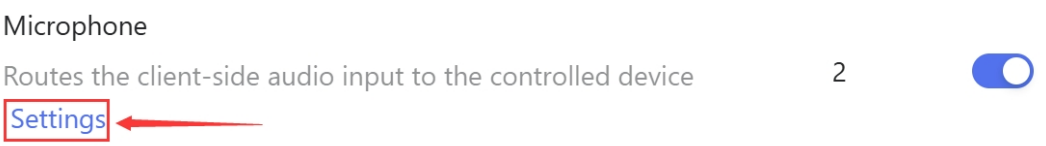
11.1 USB Devices

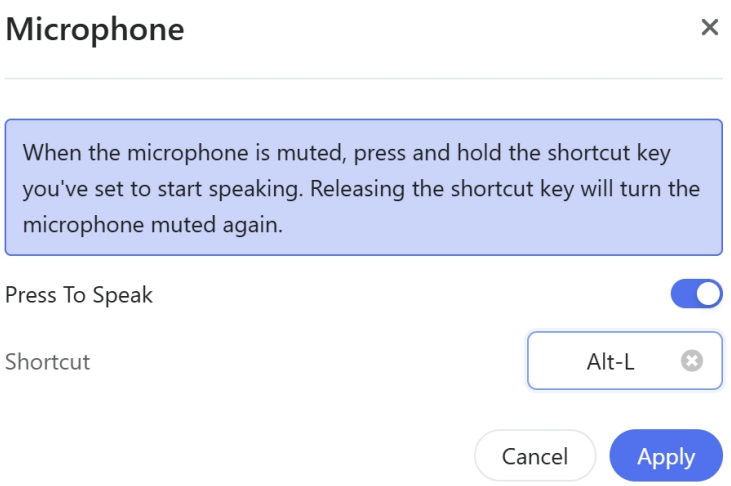
The USB Device provides centralized management for all USB emulation devices. From this page, you can toggle virtual peripherals on or off for better compatibility with the controlled host.



- **Microphone**

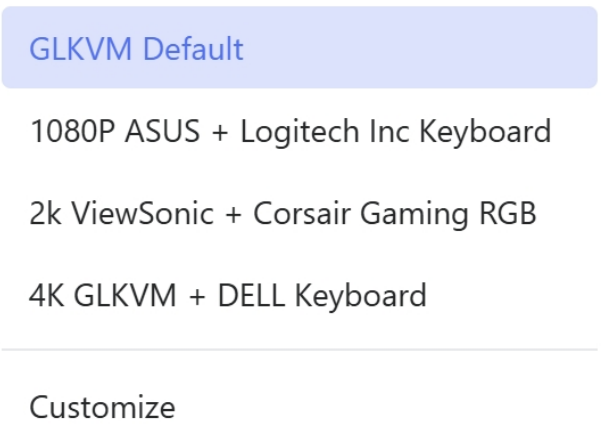
  When the microphone is muted, you can click Settings to customize shortcuts based on your usage habits. Press and hold the assigned shortcut key to start speaking; releasing it will mute the microphone again.





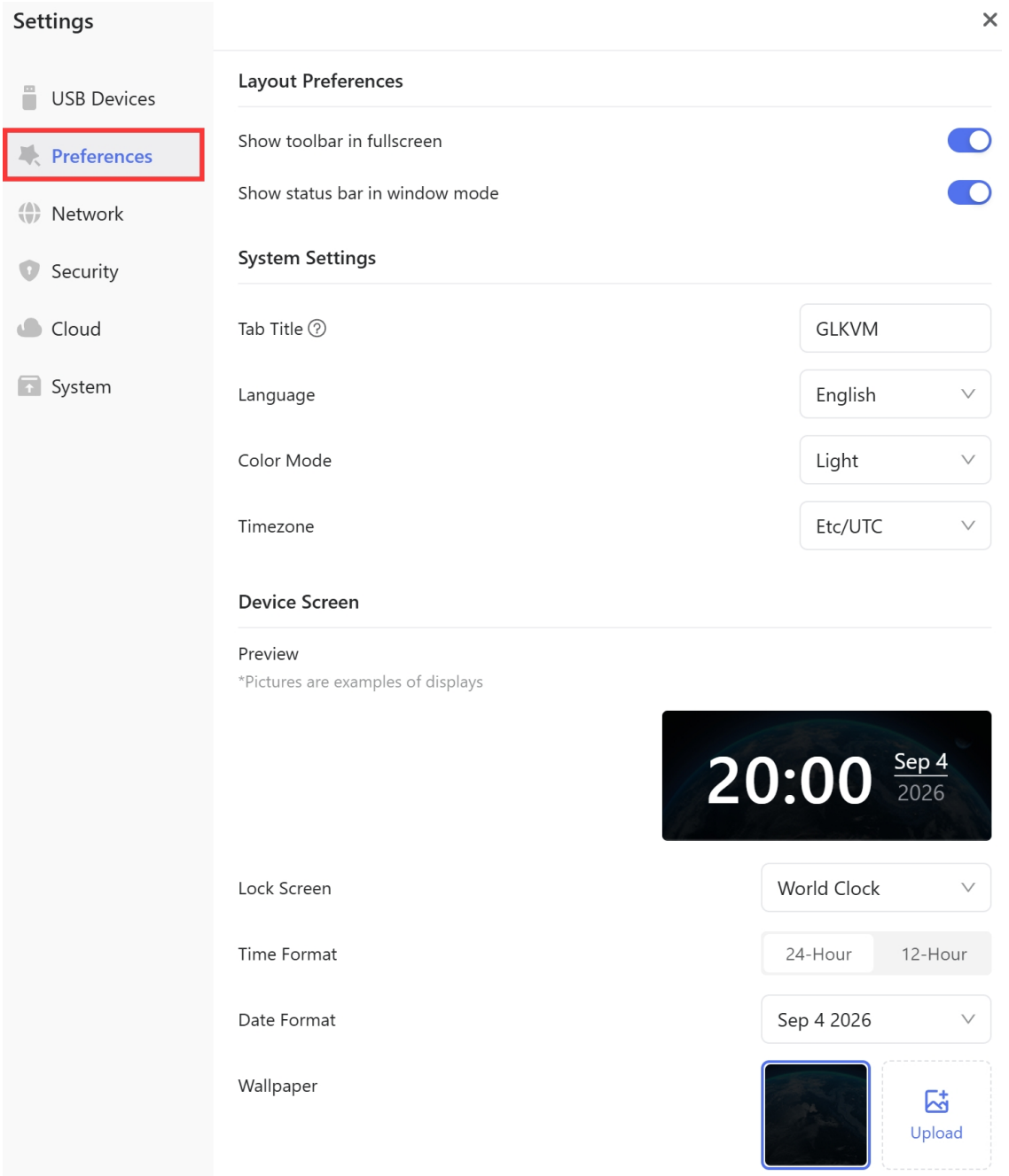
- **Device Identity**

  Customize or modify the KVM's identity recognized by the controlled device. Note that EDID and device identification remain synchronized. Changing either one will automatically update the other to ensure correct device recognition.



11.2 Preferences

The Preferences provides management of Layout Preferences, System Settings, and Device Screen settings.

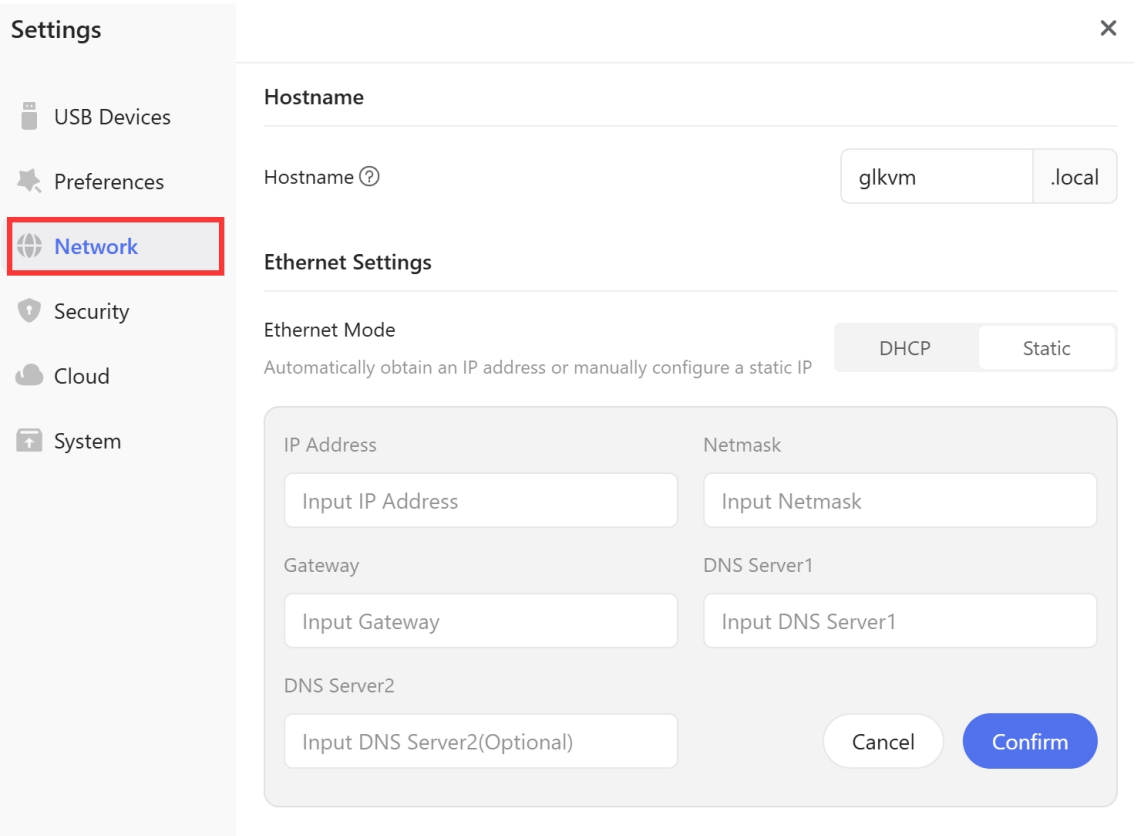


- **Layout Preferences**:You can manage show toolbar in fullscreen and show status bar in window mode as needed.

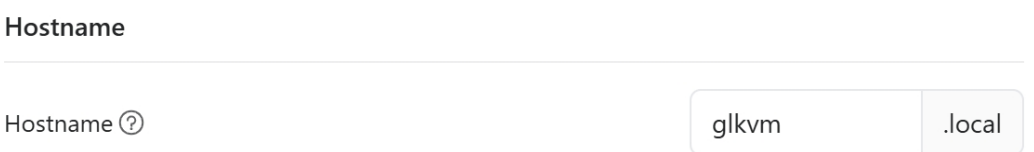
- **System Settings**: To customize System Settings, select the browser Tab Title, Language (Chinese, English, or Japanese), Color Mode (Light or Dark), and Timezone based on your region.
- **Device Screen**: You can manage and preview the device screen. Available settings include the Lock Screen mode (World Clock, Clock Only, or Wallpaper Only), Time Format, Date Format, and Wallpaper.

11.3 Network

You can check and modify Comet X's network details, such as Hostname and IP address.

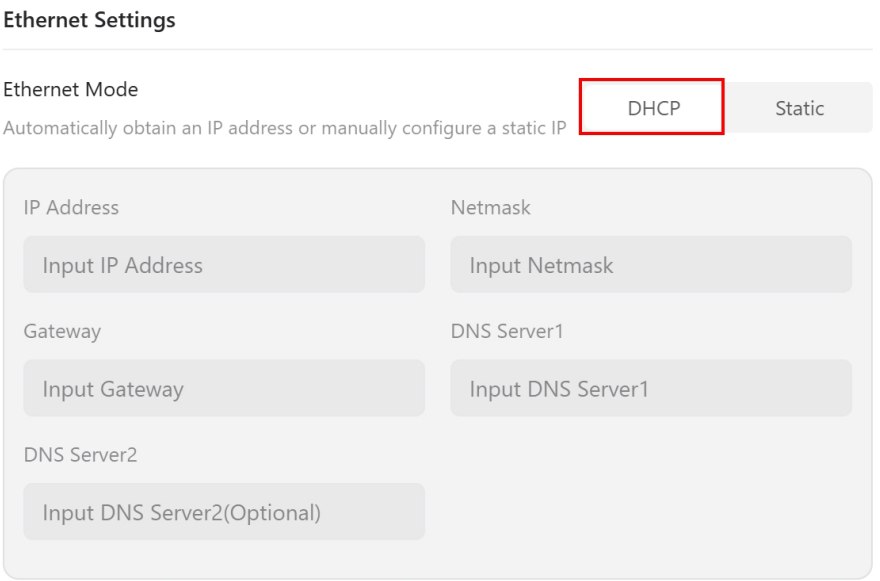


- **Hostname**: You can modify the device hostname directly on the console. This feature was introduced in firmware v1.7.0.

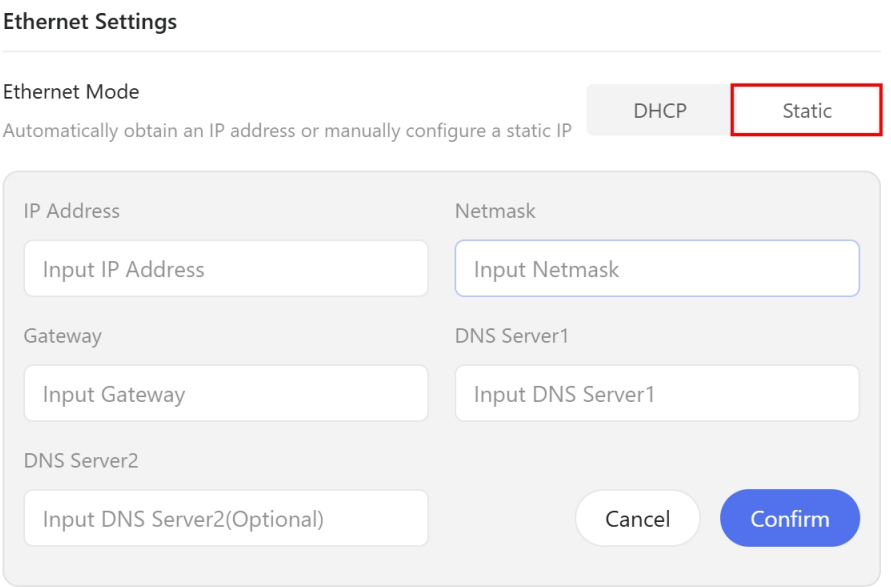


- **Ethernet Settings**: When Comet X connects to an upstream network device via an Ethernet cable, its Ethernet details will be displayed here.

If the protocol is DHCP, the page displays as follows.

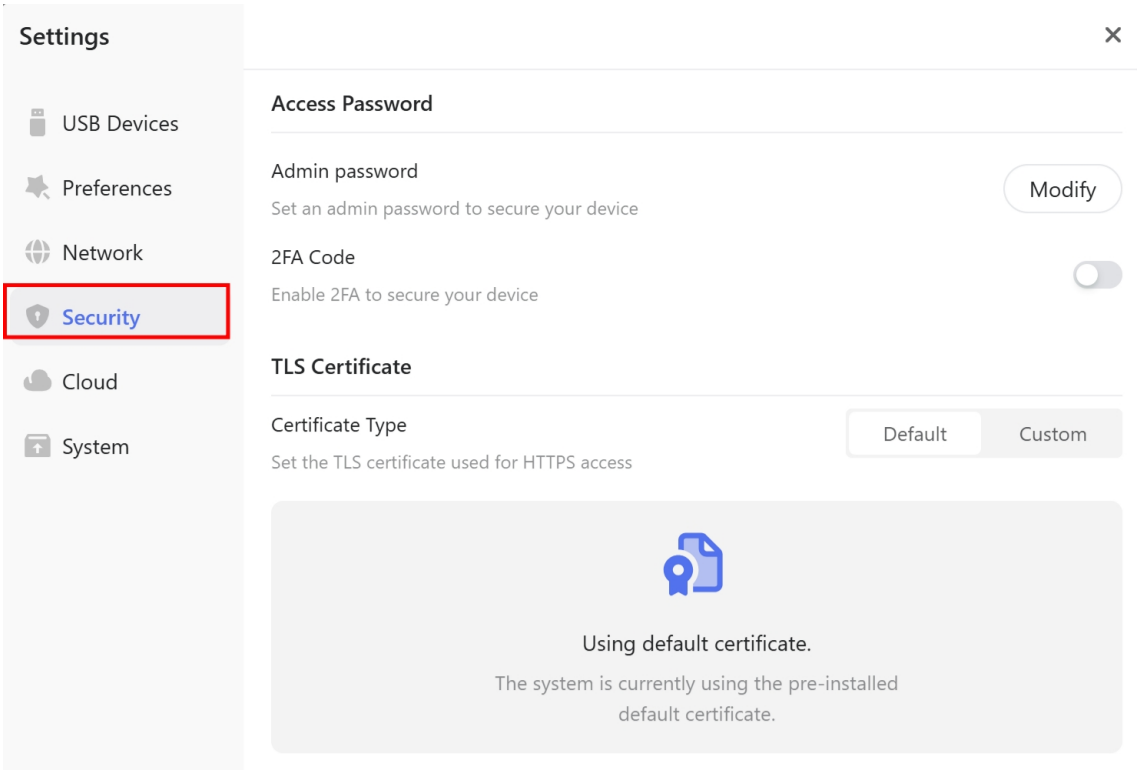


If you want to set a static IP address, switch the protocol to Static and enter the required network parameters (e.g., IP address, netmask, gateway) accordingly.

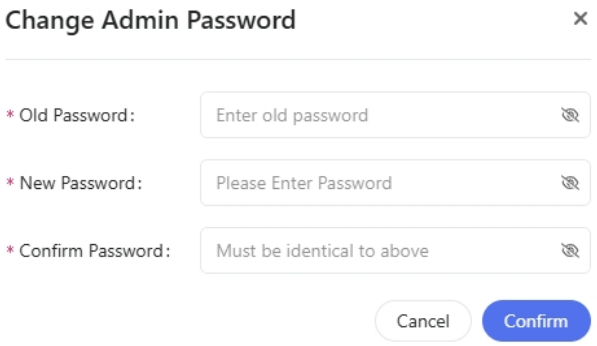


11.4 Security

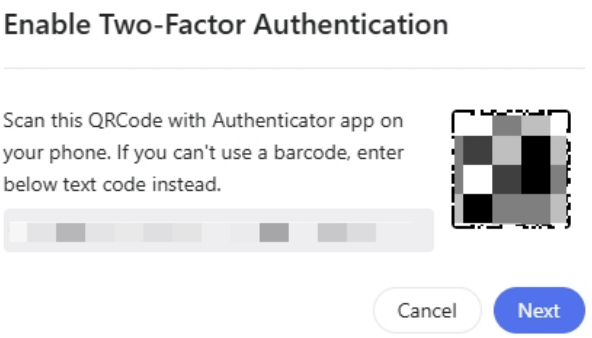
The security allows you to change admin password, enable two-factor authentication, and customize TLS certificate.



- **Change Admin Password**

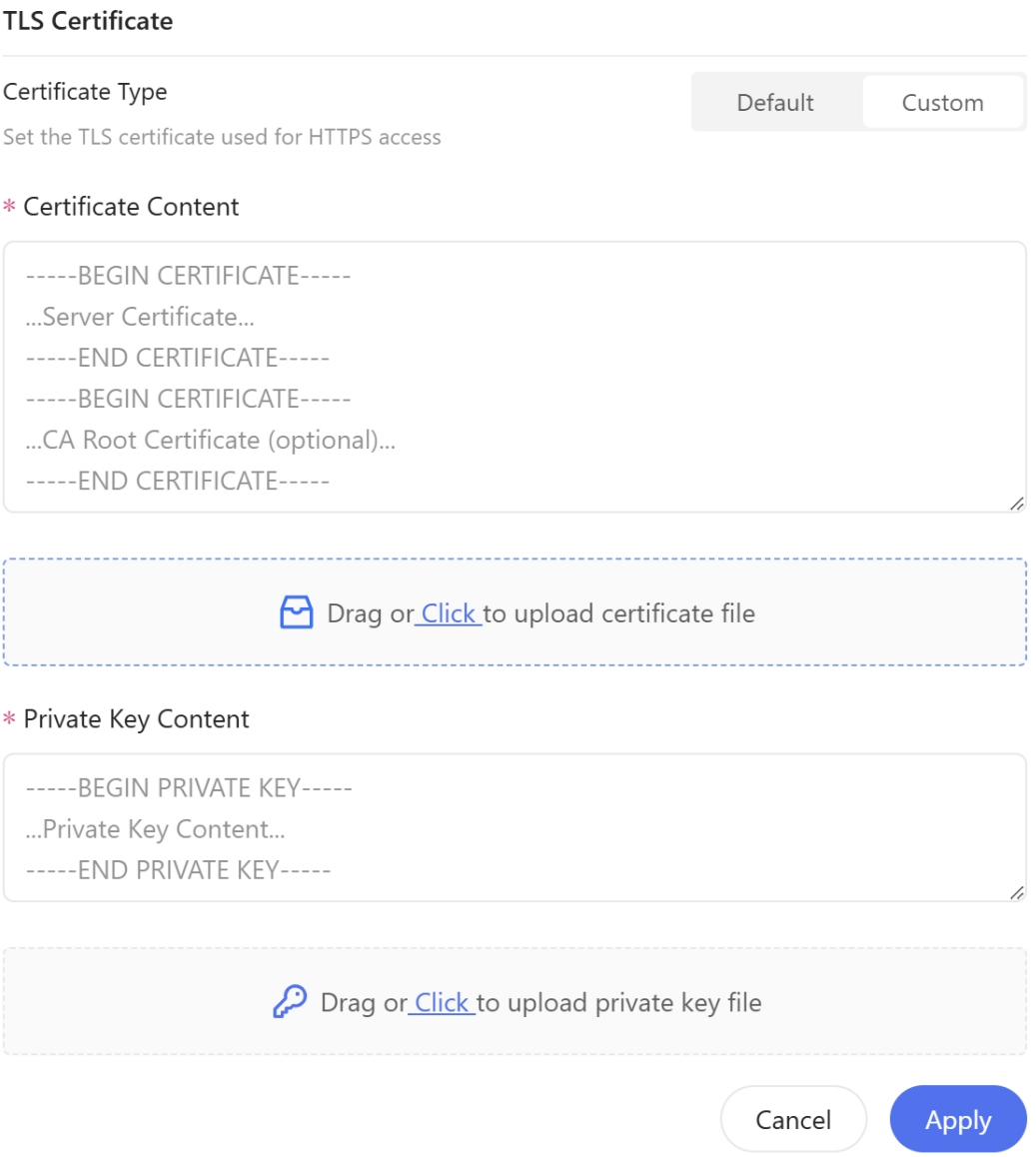


- **2FA**: Enable two-factor authentication to protect your account.



- **TLS Certificate**

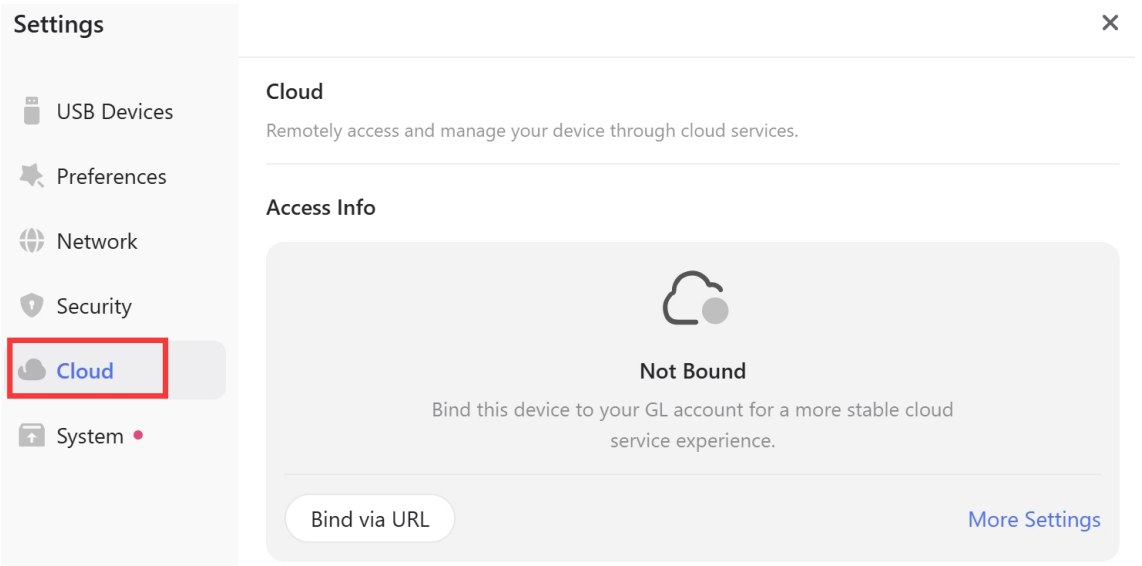
  The system will use the pre-installed default certificate for browser access. If you want to customize the TLS certificate for web browser access, click Custom under TLS Certificate, then upload your certificate file & private key file.



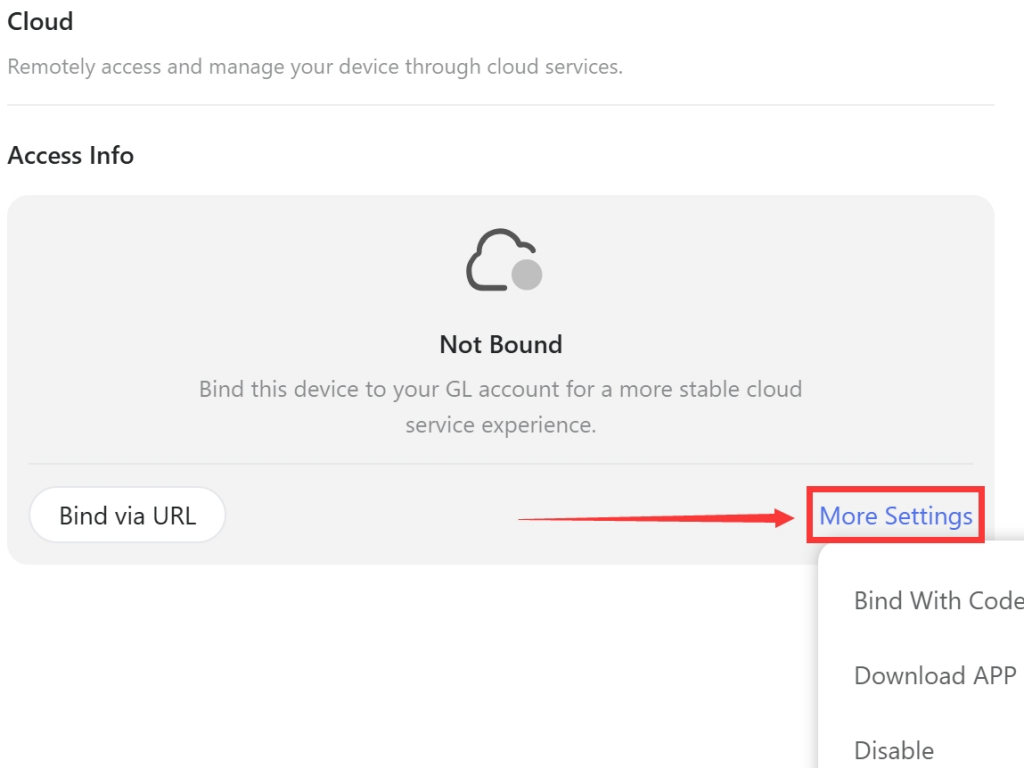
11.5 Cloud

The Cloud allows you to remotely access and manage your device through cloud services.

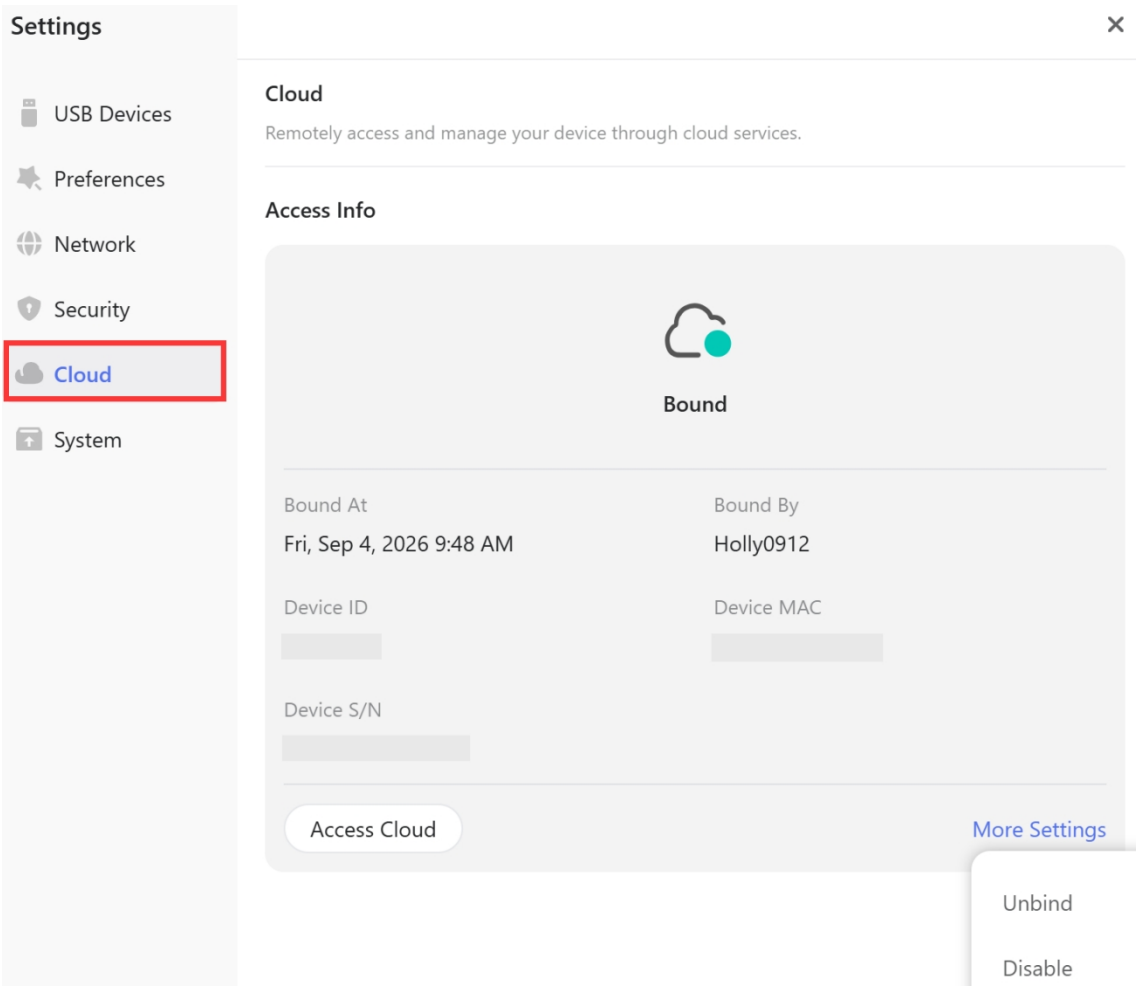
You can bind your device to the Cloud via URL.



In **More Settings**, you'll find other options like Bind With Code and App Download. Disable is also available if needed.



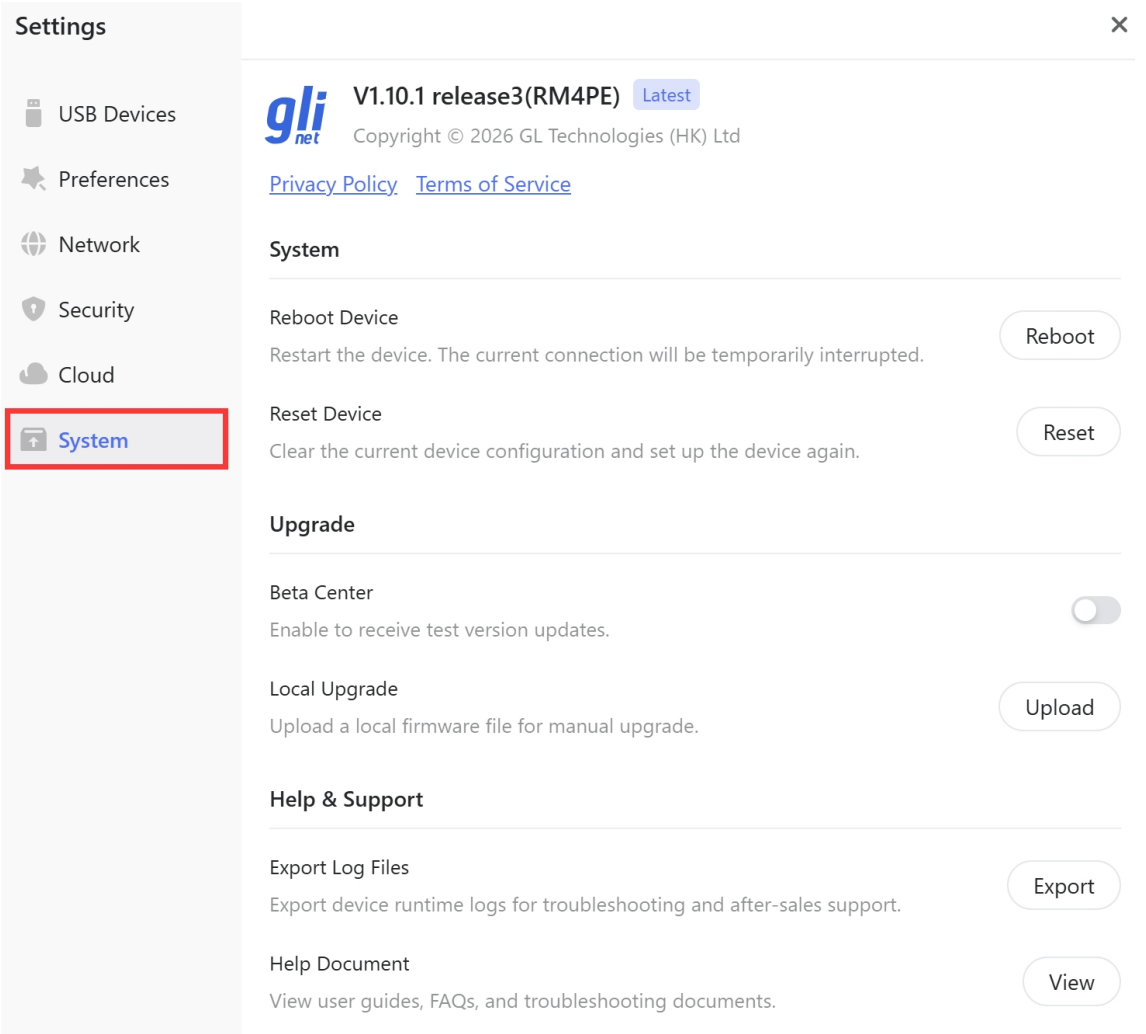
Once bound successfully, you can view the bound cloud account information. Click **Access Cloud** to manage Devices or click **More Settings** to disable or unbind as needed.



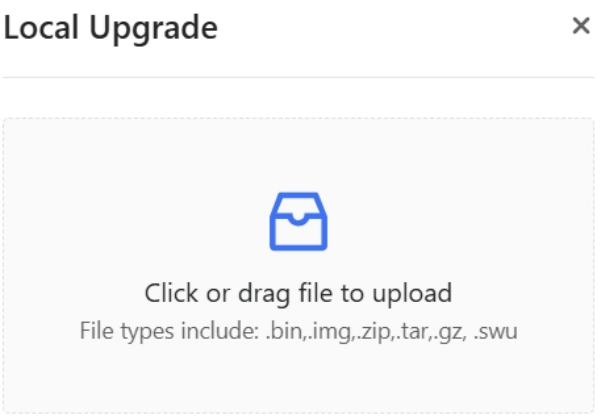
Alternatively, you can also perform the above management operations via Cloud Service on the top toolbar.

11.6 System

In the System settings, you can configure the following:



- **System**: Click Reboot to restart the device, or click Reset to clear the current device configuration and set up the device again.
- **Upgrade**: You can enable Beta Center to receive beta firmware updates, or use Local Upgrade to manually install from a local file.



- **Help & Support**: Export Log Files allows you to save device runtime logs for troubleshooting and after-sales support. Help Document provides access to user guides, FAQs, and troubleshooting documentation.

Regulatory Statement

FCC Compliance Statement

This device complies with Part 15 of the FCC Rules. Operation is subject to the following two conditions:

(1) This device may not cause harmful interference, and

(2) This device must accept any interference received, including interference that may cause undesired operation.

NOTE: This equipment has been tested and found to comply with the limits for a Class B digital device, pursuant to part 15 of the FCC rules. These limits are designed to provide reasonable protection against harmful interference in a residential installation.

Declaration of Conformity

Hereby, GL TECHNOLOGIES (HONG KONG) LIMITED declares that this product type [Remote KVM, GL-RM4PE] is in compliance with the essential requirements and other relevant provisions of Directive 2014/30/EU and 2011/65/EU. The full text of the EU declaration of conformity is available at https://www.gl-inet.com/products/certificate.