

# Thinlinc

- For login, check your [MFA](#)

## Cheat Sheet

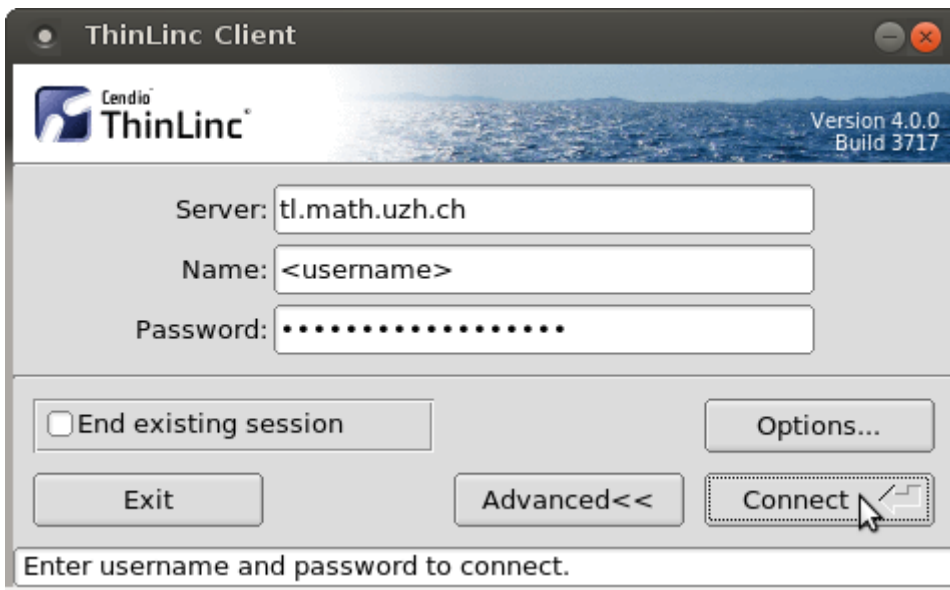
| Action                                   | Note                                                                                                                                                                                                                                         |
|------------------------------------------|----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| Disconnect Session                       | Press <b>'F8'</b> > 'Disconnect'                                                                                                                                                                                                             |
| Screen Lock                              | Activate: <b>Ctrl - Alt - L</b> ,<br>Unlock: to display password prompt, press any key or move the mouse. Sometimes it's necessary to press <b>Esc</b> two times.                                                                            |
| <a href="#">USB Stick</a>                | <b>~/thindrives</b>                                                                                                                                                                                                                          |
| <a href="#">Local files</a>              | <b>~/thindrives</b>                                                                                                                                                                                                                          |
| Screen Size                              | Press 'F8' > 'Fullscreen: Disable' to make a fullscreen Window resizable.<br>This is also useful at the I-MATH Terminals, if the screen size does not fit perfectly to the monitor (deactivate and then activate the fullscreen mode again). |
| <a href="#">Keyboard Layout</a>          | The keyboard will be automatically detected during log in.<br>If you need special characters, the easiest way is to use the 'Compose Key'                                                                                                    |
| <a href="#">Install Thinlinc</a> (Video) | Installation of thinlinc client.                                                                                                                                                                                                             |
| Ctrl-Alt-Esc                             | Restart cinnamon window manager                                                                                                                                                                                                              |

- Accessing the **same** session **locally** (at the institute) and **remotely** (for example at home) - no hassle anymore with locked Firefox profiles.
- **IT Support:** on your request, it is possible to 'shadow' your session to the IT group - in case of any trouble - **just call the IT by phone**.

## Connect Session

- Use any of the Terminals at the institute or use the 'native client' (see below) application on your own computer (Internet access is needed).
- Just login.

- An already existing session (in the background or on another terminal) will be moved and reconnect you.
- Server: **tl.math.uzh.ch**



- By default, the Session is **fullscreen**. To change this, open the 'popup menu' by pressing F8 and change **Full screen**.

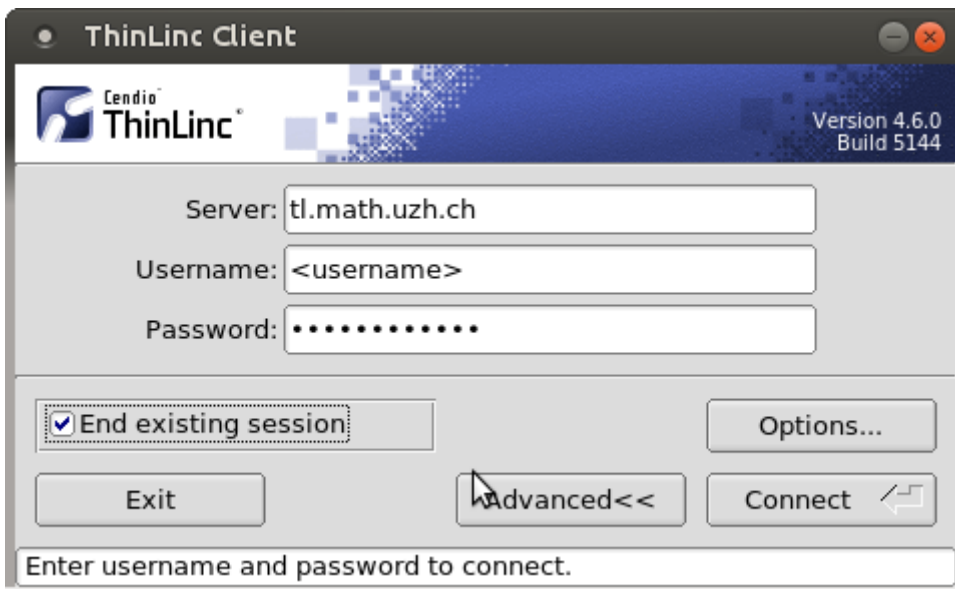
## Disconnect Session

- **Press F8** to open 'popup menu' and choose **disconnect**.
  - If you need the 'F8 key' in an application, assign another key for the popup menu. To do so: `F8 > Options > Options > Popup Menu Key`. The new setting is only active during the recent connected session.

## Get a new and fresh session

Sometimes it happens that your session is locked for some reason (crashed apps, quota problem, ...). A session disconnect / reconnect does not improve the situation.

Please check the option **End existing session** in the `tlclient` login window and log in again. Your old session will be killed and a new session will be created. All open applications will be terminated. Open files might be lost. Use is with caution!



- This option is not available via Webaccess.

## USB sticks: Terminals in building Y27

- If you plug in a USB Stick at the terminal, there is **no window**, which opens automatically.
- Plugged in USB sticks or ext. hard drives will appear in your home directory under the folder **thindrives**.
- Open a Filemanager (Menu: Places) and navigate to your 'home directory > thindrives'.
- Mount and unmount happens automatically - wait a few seconds.
- If you copy data, wait until the light on the USB stick **stops** flashing or the **progress bar** disappear, plus some additional seconds. After that, it's secure to remove the stick.
- If the stick does not appear under directory '~/thindrives', please trigger a remount via menu **Repair thindrives (USB Stick , ...)**.

## Remote Access: thinlinc@home

### By webbrowser

- <https://tl.math.uzh.ch>
- No sound.
- No local drives

- For touch based devices (Tablets), you'll find a software keyboard on the top of the window,

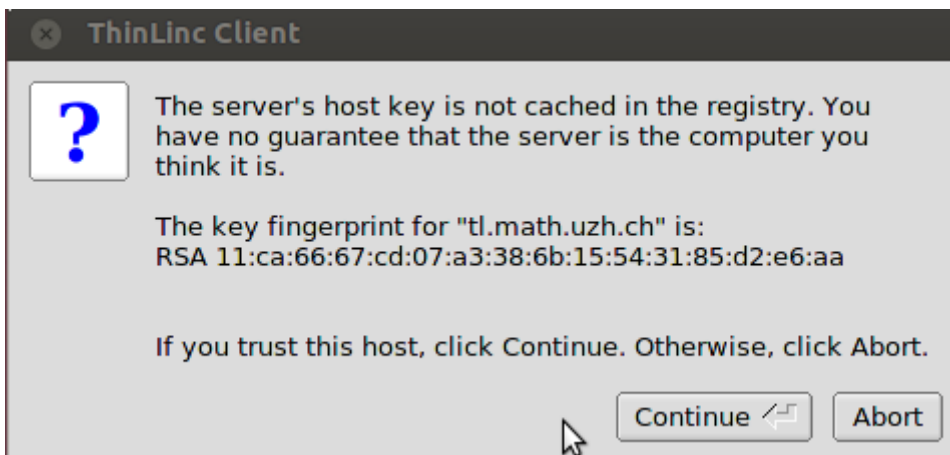
## By native client

- Install the native Client (Linux, Windows, Mac): [Download](#)
  - At the moment, there is no native Android, Windows Phone or iOS support. Use the webclient instead.

\* Start the native client and connect to:

tl.math.uzh.ch

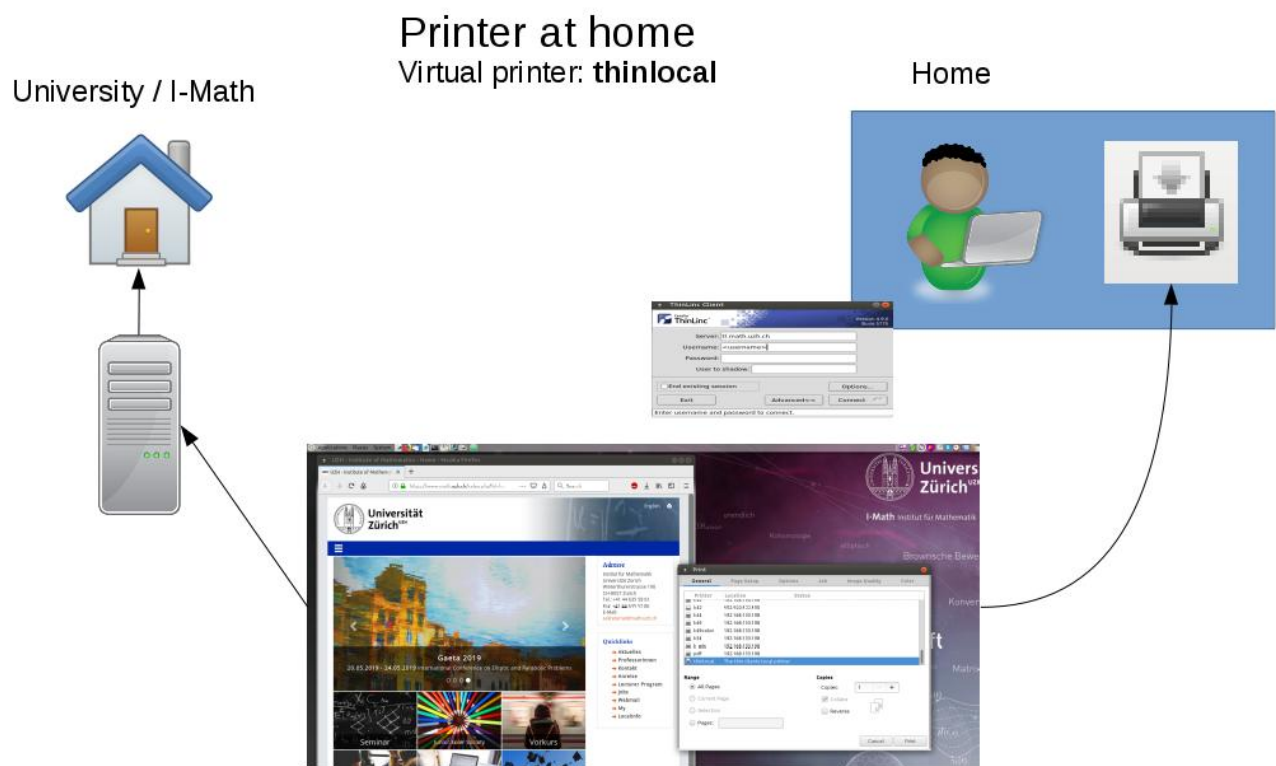
- Be aware, the second character of the servername is a lowercase 'l'!
- Username / Password: as your I-MATH Account.
- It is possible that you have to accept the **hostkey**: press 'Continue'



- **Disconnect** / toggle **Full screen**: Pressing 'F8' opens a menu, with options for:
  - **Disconnect**.
  - changing **Full Screen**.
- Best practice: it's not necessary to log out, just disconnect.

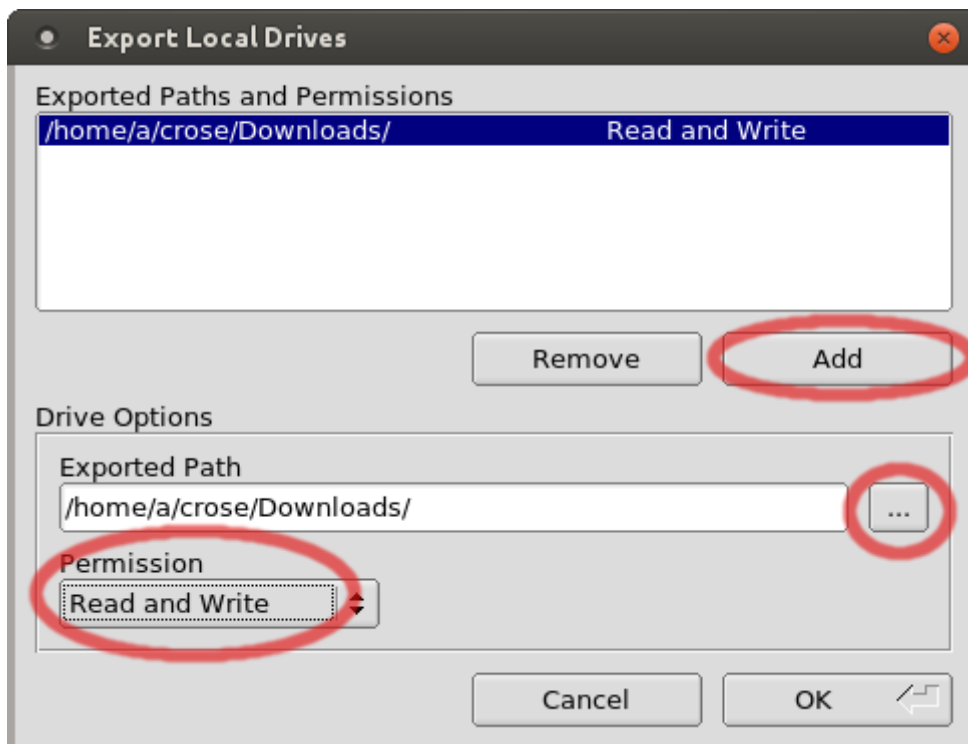
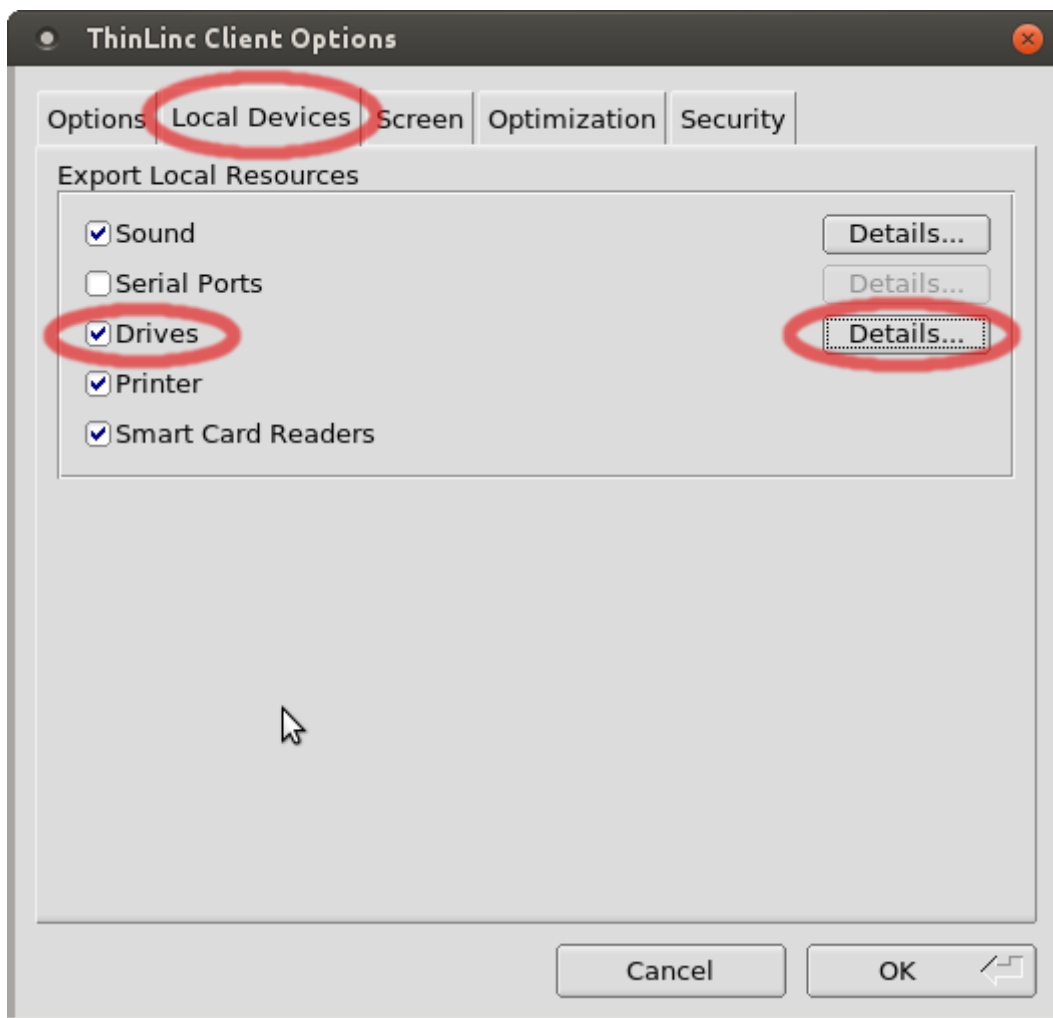
## Printing at home

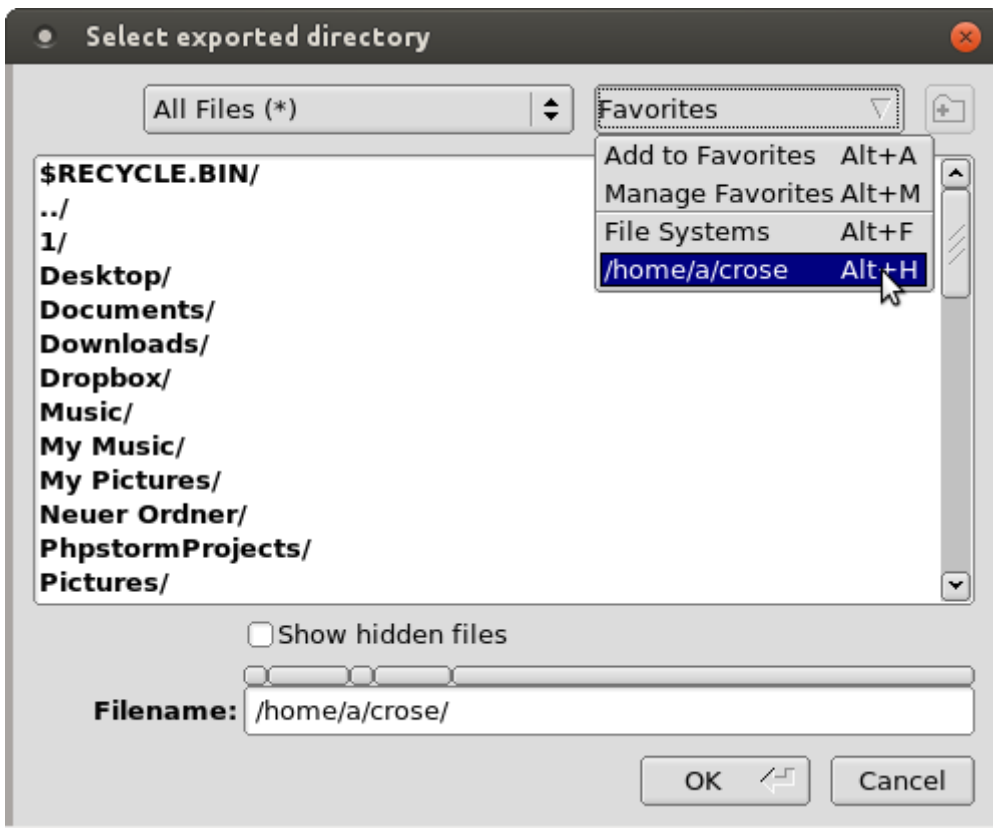
- Choose Thinlocal as Printer
  - It automatically uses your default printer configured on your PC/Laptop at home



## Copy files from/to the Thinlinc Session

- On your own computer:
  1. Open the 'Native Thinlinc Client' on your computer and choose **Options > Local Devices > Drives: Details**
  2. Create a mapping: add a new directory and set **permissions**.





- Thinlinc Session
  - Via the native client from above, **Login** to the thinlinc session.
  - Open the file manager (lower left corner: Menu, type 'files') and navigate to **thindrives** inside your home directory.
- Hint: If there are **troubles** with a mapped directory (e.g. broken 'thindrives' directory in your thinlinc session), choose in the thinlinc session in the menu **Repair thindrives (USB Stick , ...)**.

## Dropbox

You can also use dropbox or switchdrive to copy data to the thinlinc session.

- [Dropbox](#)

## Keyboard Layout

- A quick solution, to type characters not directly accessible on the keyboard, is by using the 'compose key' - please check [ComposeKey](#).
- **Select keyboard layout:**
  - The Keyboard layout is stored on the terminal.
  - If you move to a different terminal, you have to select the keyboard again.

- Before you connect to a thinlinc session (or if you are already logged into thinlinc: press F8 and uncheck 'Full screen'), select on the lower left corner:

Keyboard > Keyboard Layout: Edit ...

- Website to convert keystrokes to specific languages: <http://www.typeit.org/>

# WebCam: MS-Teams / Zoom / Skype / SeminarLive

- Webcams are only **supported** on the terminals, installed at the **institute!**
- Audio/Video **Test**: <https://janus.conf.meetecho.com/echotest.html> (press 'Start' on the top)
- Webcam Support:
  - Terminal in Y27: **plug in the webcam.**
  - Personal laptop: **NO** webcam support. Please start your !VideoCall outside of the Thinlinc session.
- You can borrow a webcam and/or a headset from [Support](#).
- The Camera will not be available if you are already using it in another application (only one Application can access it at a time)
- When the camera is on, there is a green light on the left side of the lense.



## Video

- <https://webcammictest.com/>
- (Check) If your camera is not recognized by the application, open a terminal and enter `tlwebcam-ctl list-cameras`, to make sure the camera is connected in the first place. There needs to be at least one camera listed.

```
127-~> tlwebcam-ctl list-cameras
id  camera id  label
-----
1   d3bg4QLazf00  Video Capture 4
```

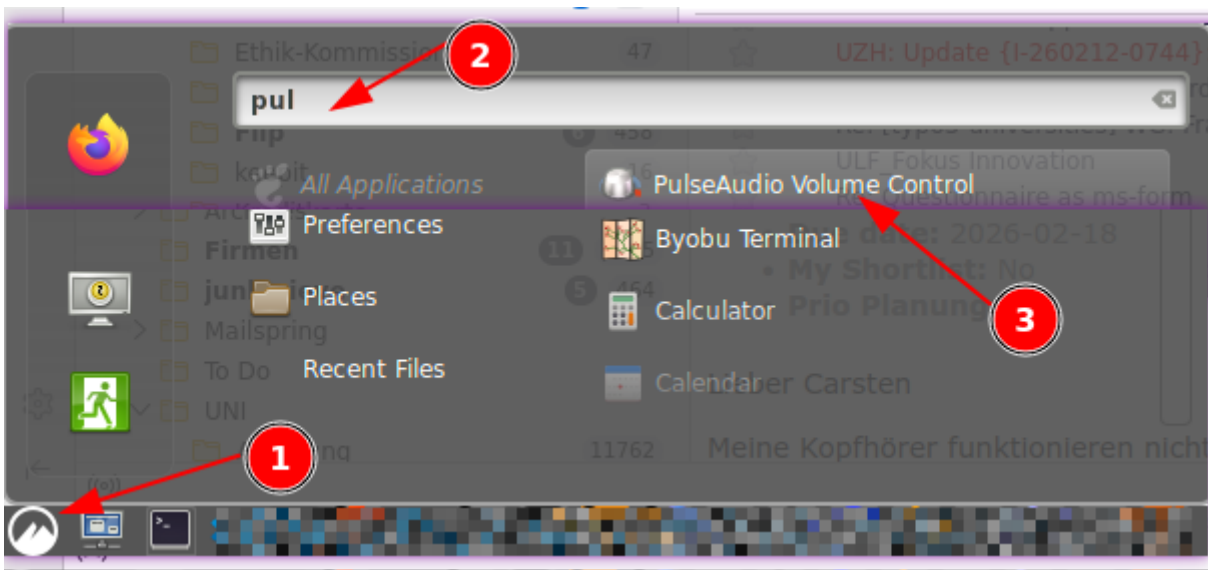
- (Fix 1) If broken: Disconnect ( `F8 > Disconnect` ) Thinlinc Session and log in again. Reload the browser page.
- (Fix 2) Power the terminal off and on . Connect again to the Thinlinc session. Reload the browser page.
- (Fix 3) If the cameras' light isn't on and the camera doesn't display anything in your VideoMeeting/Recording, enter `tlwebcam-reload` in the Terminal, to reload the service completely.

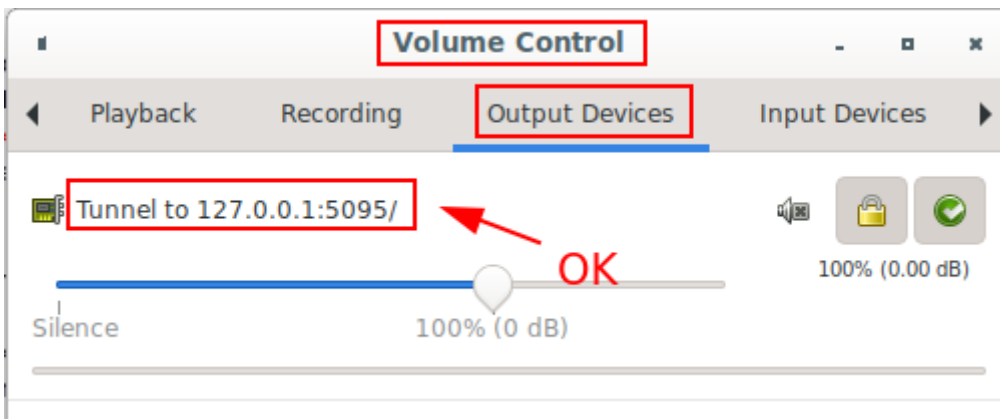
## Audio

- Audio redirection only works with the `native client` - **not** with the thinlinc **browser** version.
  - Tablet: There is no sound redirecting, because there is no native client.

## Fix Problem

- <https://webcammictest.com/mic/>
- **Check:** If there is no sound at all (verify by playing a youtube video), check the 'Audio redirection' via `Pulse Audio Volume Control`
  - ok: Output: **Tunnel to 127.0.0.1:5...**
  - broken: Output: **Dummy output**





- **Fix 1:** If broken: Disconnect ( `F8 > Disconnect` ) Thinlinc Session and log in again. Wait 5 seconds, 'Dummy...' should be replaced by 'Tunnel...'. This fixes the majority of audio issues!
- **Fix 2:** Audio / Mic is not working - do the following steps, exact in the given order:
  - `F8 > Session disconnect` and then login again.
  - **Unplug** the USB Headset, wait 3 seconds and **plug in** again.
  - If the System is using the wrong Audio Device or Microphone, unplug and plug again the **desired** device.
- **Fix 3:** If still 'Dummy...' appears (see 'Check'), `Logout' completely (Menu > Logout) and log in again. If this is often necessary (more than once a month), contact [Support](#).

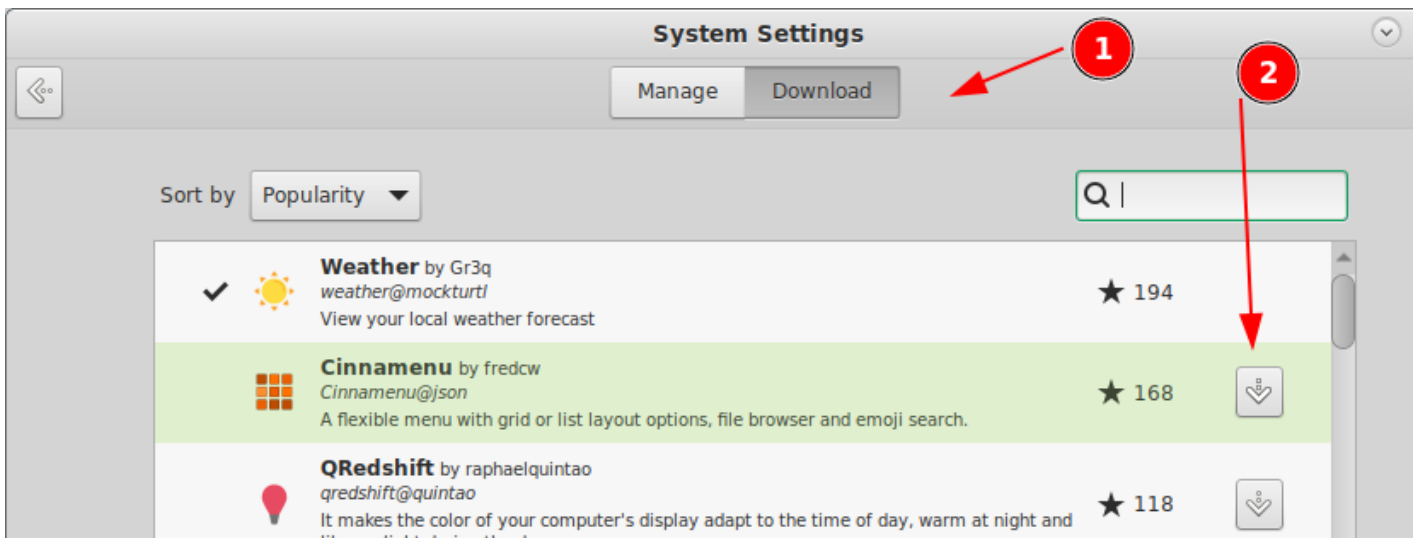
# Cinnamon

## Applet

- Overview over all available applets: <https://cinnamon-spices.linuxmint.com/applets>

Installation:

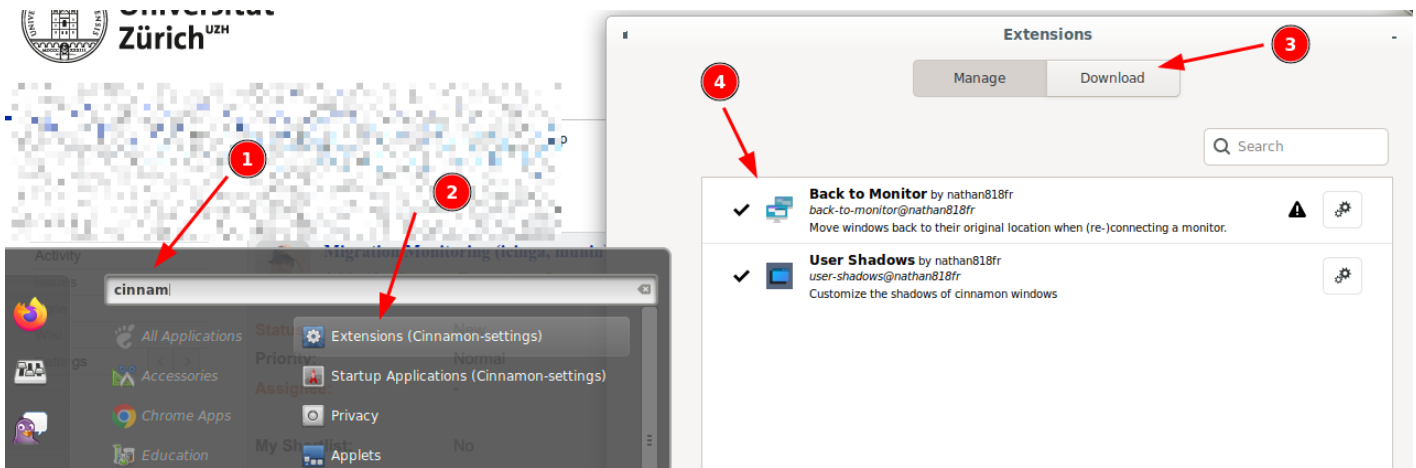
- Menu > Settings > Applets > Download (wait 10 seconds until the list is updated)



- Download the wished app.
- Switch to 'Manage' and activate (click on '+') the applet



# Extension

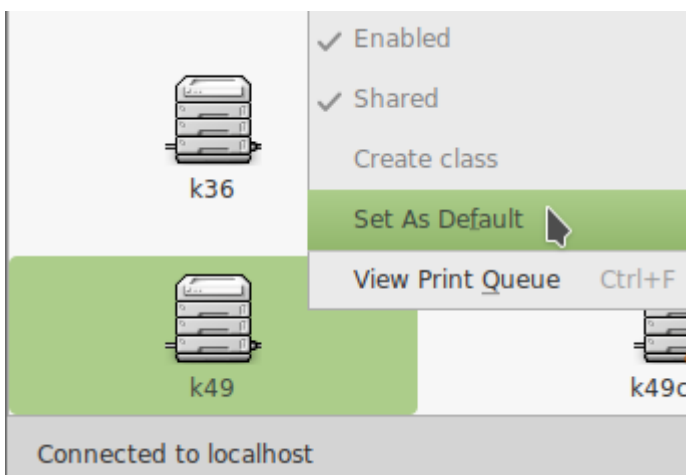


# Filemanager: Nemo

- 15 nice tweaks: <https://itsfoss.com/nemo-tweaks/>

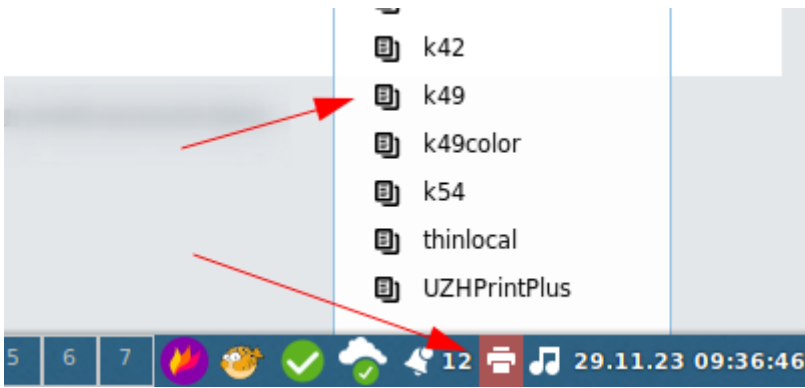
# Setting Default Printer

- Menu > Printers > right click (over printer) > Set Default Printer > Set as my personal default printer.



If **Set Default Printer** is disabled

- Open the printer via panel notification applet (lower right corner) > .
- After that, repeat the first step.
- If there is no printer applet in the lower right corner:
  - Menu > System Settings > Applets > Manage > Printers > Settings > Show printer icon: When printers exist



# Multi-Head Support

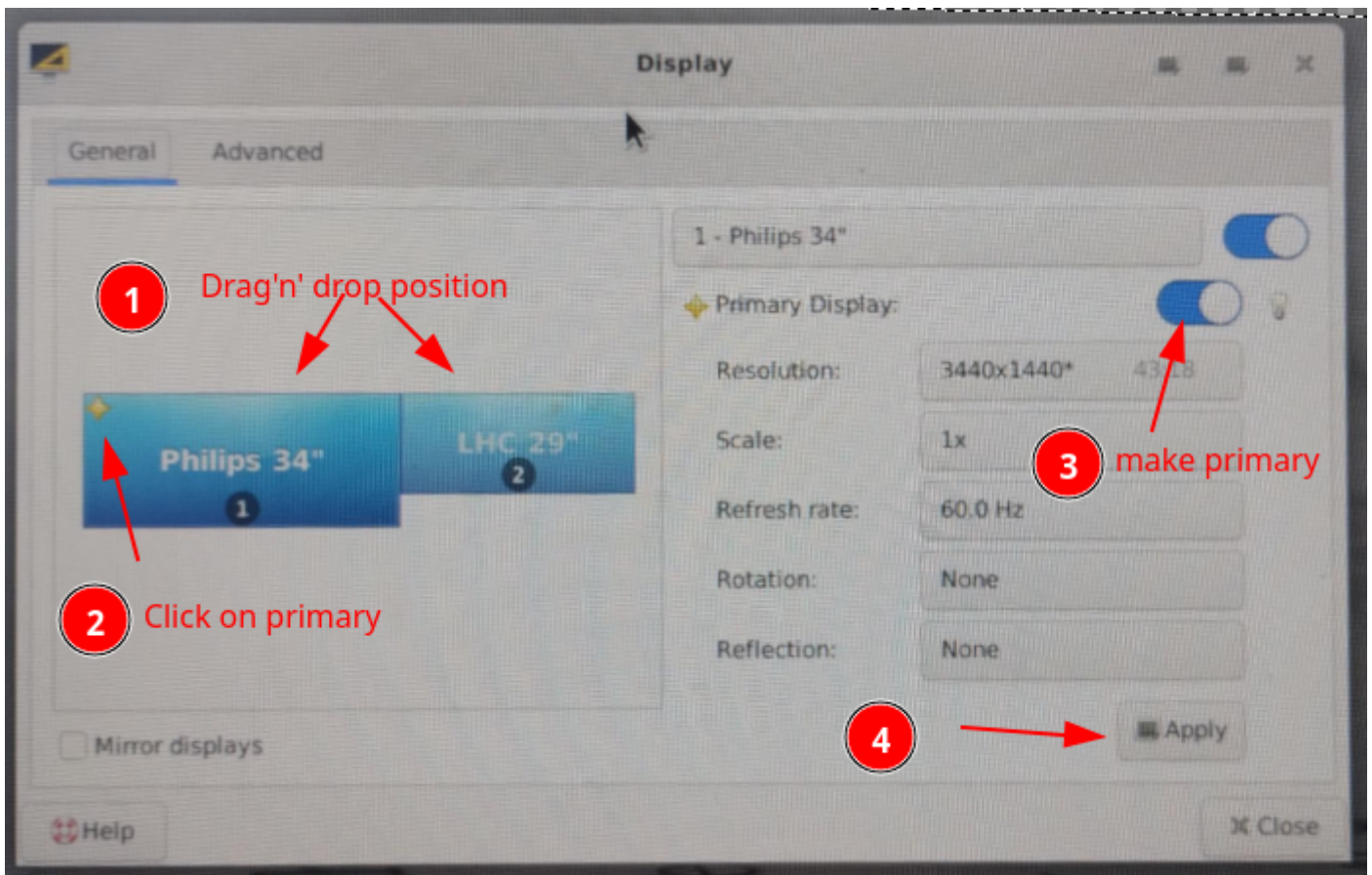
- Fully supported via native client.
- Mac OS X: "macOS (formerly OS X) versions newer than 10.9 installs with a default setting that breaks the multi monitor functionality of the ThinLinc client. A workaround to this problem is to disable setting *Displays have separate Spaces* in settings for Mission Control found in System Preferences."

## Primary / Secondary Display

- In a multi head setup, one screen becomes the primary screen.
- Typically, on the primary screen is the menu bar.
- Most people prefore the left screen as primary. This can be configured.
- Sometimes a computer (lthinstations in the institute) detects the connected screens in a different order, and than suddenly the primay screen is on the wrong side.

How to fix / change primary sceen:

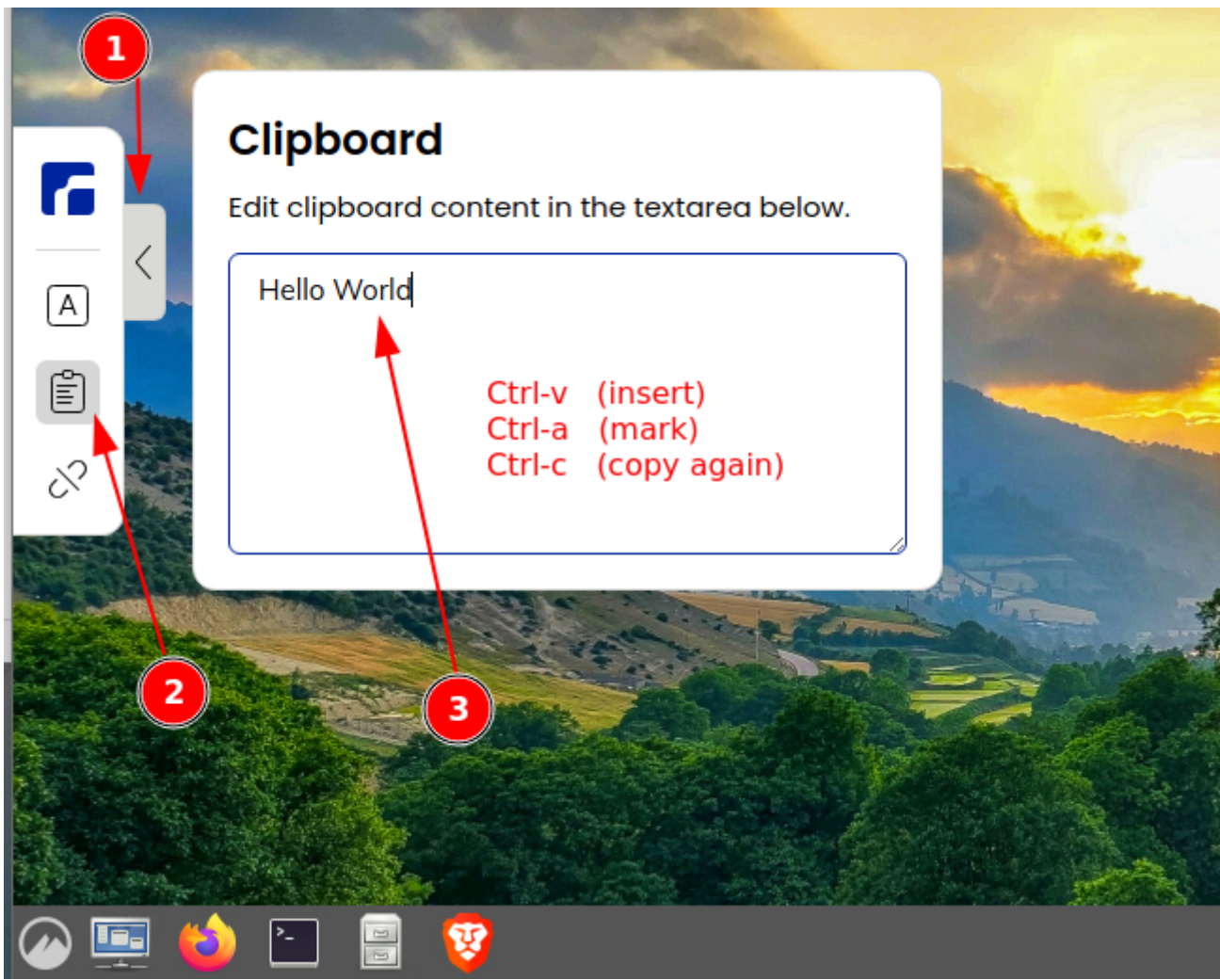
- **Disconnect** from thinlinc session.
- Open the screen setup on your computer.
  - On thinstation (computer at the institute): Menu > Configuration > Display Properties



- Login to thinlinc

## FAQ

- Q: The native client does not work
  - A: Please always use the latest version: <https://www.cendio.com/thinlinc/download>
- Q: Thinlinc via Webbrowser - clipboard is not working
  - Known limitation by using thinlinc in webbrowser - if possible use the native client.
  - Work around: open the menu on the left side > clipboard. Insert the clipboard, mark it, and copy it again to the clipboard - now it should be available via clipboard in any application.



Revision #9

Created 2026-06-30 10:57:17 CEST by admino

Updated 2026-07-03 10:41:06 CEST by Jonas Valentin Rose