

Dear Participants,

In order to ensure a smooth start of the computer lab, please make sure that you are able to login to our server environment. Therefore, we would like to ask you to log into the server **cbt04.cbt.tugraz.at via SSH (Secure Shell) once before the start of the course.**

If you have a problem logging in, please email Klaus Schliep, PhD at: klaus.schliep@tugraz.at.

This document provides you with detailed information about all the necessary steps to log in for the first time. It also contains a section on how to log in via ThinLinc, the interface used in class. You can try this part before the course, or later, right now it is only necessary to connect **once** via SSH using a **Terminal App**.

You will require the following things:

- **SSH-Client (Terminal App)**, or the **Cendio ThinLinc Client**, respectively
- **Your TU-Graz Online login credentials**

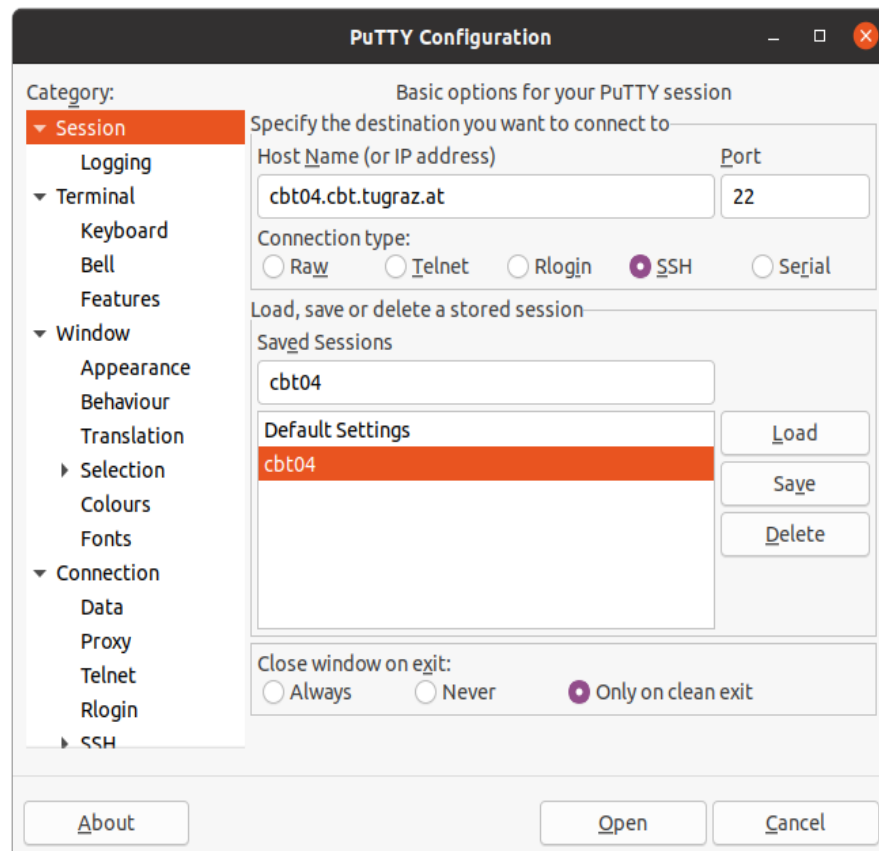
Please make sure you remember or write down your username and password (TU-Graz Online login credentials). For lessons held at the computer lab please make sure you bring your log-in data along.

SSH (Secure Shell)

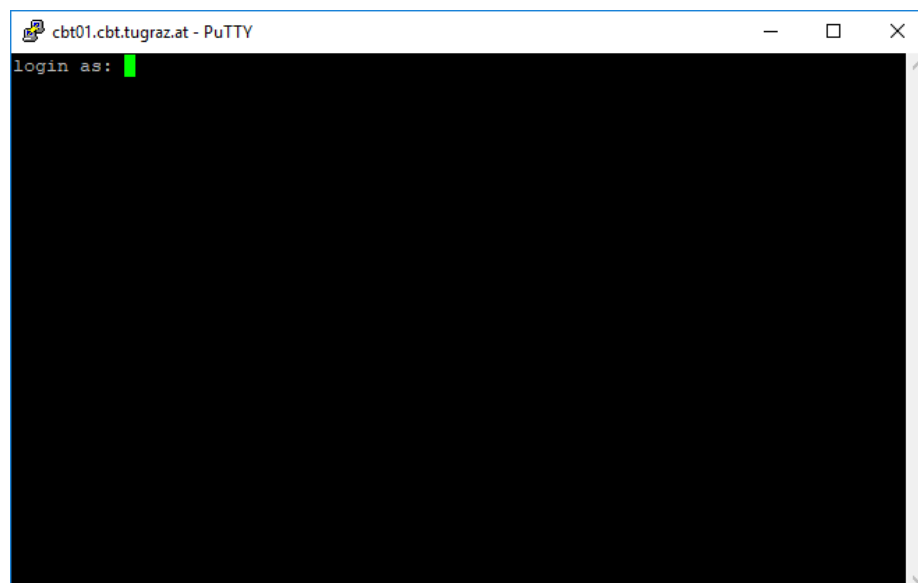
SSH is a so called communication protocol (or network protocol), defining the way how computers connect and communicate with each other. As the name suggests, SSH opens a secure channel using public key cryptography. Here it will be used to open a secure channel to communicate with our student server via a Terminal Application, so that you can use the command line interface remotely (i.e. from home).

- **Windows users:**
 - Download and install an SSH client such as Putty or MobaXTerm.
<http://www.putty.org/>
 - Run Putty.
 - As you open Putty, a configuration dialog will show up.

- o Insert **cbt04.cbt.tugraz.at** into the “Host Name” field.



- o A command window will appear, asking for your username.



- o Login with your **TU-Graz Online account name** and password.
Note: When you insert your password, no characters or *** will show up. Just enter your password and hit Enter.
 - o When you login for the first time, it might happen that you are asked to **accept the SSL public key** of the server.
 - o If that's the case, type **"yes"**.
 - o Make sure the command prompt **-bash-4.1\$** or **-user@cbt04\$** appears .
 - o Once you have successfully logged in, you can type in **"exit"** and close Putty afterwards.
- **Linux and Mac users:**
 - o Linux users:Open a command shell.
 - o Mac users: Open **"Terminal App, which is called "Konsole" in German"** found under **"Mac Utilities"** or **"Dienstprogramme"**.
 - o If you can't find your command shell using Linux or Terminal using Mac, google: **"How to open a command shell /Terminal"** for your respective Linux distribution or Mac OS.
 - o Type **"ssh tugUsername@cbt04.cbt.tugraz.at"** and hit the **ENTER** key.
(tugUsername refers to your **TU-Graz Online account name**).
 - o Alternatively **"ssh -l tugUsername cbt04.cbt.tugraz.at"** should work as well.
Note that the letter in **"-l"** is a small **"L"** for **"login name"**.
 - o Enter your password and hit the **ENTER** key again.
Note: When you insert your password, no characters or *** will show up. Just enter your password and hit Enter.
 - o When you login for the first time, it might happen that you are asked to **accept the SSL public key** of the server.
 - o If that's the case, type **"yes"**.
 - o Make sure the command prompt **-bash-4.1\$** or **-user@cbt04\$** appears .
 - o Once you have logged in for the first time, you can close the session by typing in **"exit"** and then closing the **Terminal App**.

ThinLinc remote desktop connection

Connecting via the Cendio ThinLinc Client provides you with the very same graphical desktop environment as you will experience during the lab.

In order to login from your home computer or notebook, you will need to download and run the installer from Cendio ThinLinc.

- Download the client for your operating system from <https://www.cendio.com/thinlinc/download>.
- Run the installer.
- Run Cendio ThinLinc. A Login dialog will appear asking for a server and your login credentials

- Enter **cbt04.cbt.tugraz.at** into the server field and login with your TU-Graz Online account name and password.



The image shows the ThinLinc-Client login window. The title bar reads "ThinLinc-Client". The header area includes the Cendio ThinLinc logo on the left and "Version 4.11.0" and "Erstellt 6323" on the right. The main area contains three input fields: "Server:" with the value "cbt04.cbt.tugraz.at", "Anwendername:" with the value "username", and "Passwort:" with masked characters. Below these fields are four buttons: "Session beenden" (with an unchecked checkbox), "Optionen...", "Beenden", and "Erweitert<<". To the right of "Erweitert<<" is a "Verbinden" button with a right-pointing arrow. At the bottom, a status bar contains the text "Anwendernamen und Passwort eingeben, um Verbindung herzustellen".

- A welcome dialog will appear when opening a new session. Click "OK".

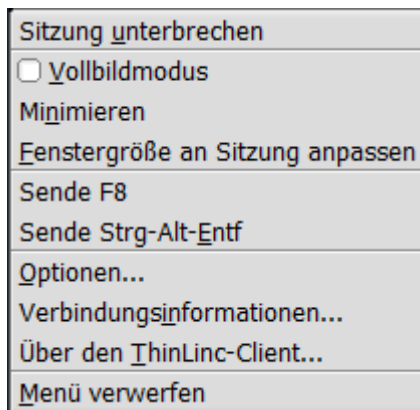


- **IMPORTANT:** A second dialog will appear when you log in for the **first time**:



Make sure you select **“Use default config”**!

- Depending on how you close your **session**, you will be able to connect to it again or open a new one. In order to preserve your session, you have to logout via typing **F8** and clicking on **“Sitzung unterbrechen”** or **“Disconnect”**. This way you will be able to continue your session regardless if you are connecting from home or the student lab. This means all your open programs, browser windows and command windows will stay open and you will find your desktop environment in the same state when you connect the next time.



- If you want to close your session permanently, click on “**Applications Menu**” and “**Log Out**”. This way all your open programs are terminated, and you will start with a fresh session the next time you login.

