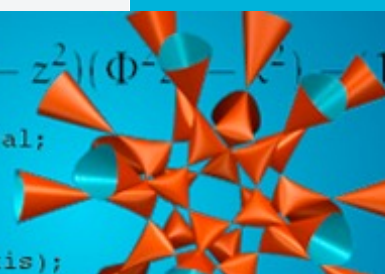


Student orientation – summer semester 2025

Accounts and services

Dr. Roland Schwarzkopf
IT Solutions
Department of Mathematics and
Computer Science

```
1)  $(\Phi^2 x^2 - y^2)(\Phi^2 y^2 - z^2)(\Phi^2 z^2 - x^2) - 1$   
perspective=central;  
spec_s=150.0;  
radius=10.0;  
sextic=rotate(  
    sextic,-0.1,xAxis);
```

A 3D visualization of a complex geometric shape, likely a sextic curve, rendered in orange and red. The shape is composed of many small, interconnected surfaces, creating a complex, multi-faceted structure. The background is a solid blue color.

Agenda

- Part I – @students vs. @mathematik account
- Part II – Services of the HRZ
 - @students account
 - Email
 - Virtual private network (VPN)
 - Wireless network access (Eduroam)
 - Hessenbox
 - Printing
- Part III – Services of the Department of Mathematics and Computer Science
 - @mathematik account
 - Remote access via secure shell (SSH) – the bare minimum
 - Email
- Part IV – Extended secure shell “tutorial” (downloadable slides only)

Student orientation – summer semester 2025
Accounts and services

Part I

@students vs. @mathematik account

@students vs. @mathematik account

- Two distinct, independent accounts
- @students account
 - Account at the University Computer Center (called *HRZ* in the following), a.k.a. „Zentrales Benutzerkonto für Studierende“
 - Every student is provided with this account
 - Essential for your course of studies
- @mathematik account
 - Account at the Department of Mathematics and Computer Science (called *the department* in the following)
 - Needs to be request explicitly
- Each provides access to a distinct set of services

What is the @students account needed for?

- Email address @students.uni-marburg.de
- Access to the VPN and wireless network (eduroam)
- Access to Hessenbox, Gitlab and other services
- Access to computers managed by the HRZ (e.g., PC pools, library)
- Printing on public printers (e.g., PC pools, library)
- Access to various campus applications
 - Marvin: integrated campus management system
 - Application, matriculation, university calendar, registration for courses and exams, ...
 - ILIAS: learning management system
 - Documents (lecture notes, videos), forum, chat, ...

<https://www.uni-marburg.de/de/hrz/dienste>

What is the @mathematik account needed for?

- Email address @mathematik.uni-marburg.de
@informatik.uni-marburg.de
(the @informatik address can only be used for receiving mail)
- Access to computers managed by the department (PC12xyz)
 - Computers in the department's computer pools
 - Some modules include practical exercises
 - Compute resources of the department or individual research groups
 - Machines with a high number of cores, a high amount of memory, and/or datacenter-scale GPUs (e.g., nVidia A100)
 - E.g., for practical exercises in some modules or when working on your thesis

<https://www.uni-marburg.de/de/fb12/fachbereich/infrastruktur/it-solutions>

Student orientation – summer semester 2025
Accounts and services

Part II

Services provided by the HRZ

Problems? Questions? 🤯

Direct all questions regarding

- Your @students account
- Services provided by the HRZ

to the HRZ:

<https://www.uni-marburg.de/de/hrz/hilfe-beratung/anlaufstellen>

The department's IT Solutions team can not help you with these kinds of problems in most cases.

@students account

Manage your account

- There's a set of web forms for managing your @students account:
<https://admin.students.uni-marburg.de/>
- Using these forms, you're able to
 - Activate your account (“Uni-Account aktivieren”)
 - Change your password
 - Show information about your account (“Kenndaten abrufen”)
 - Configure your email account:
 - Aliases (john.doe@students instead of johndoe13@students)
 - Forwarding
 - Spam filter

@students account










Email – access

- Using a mail client
 - A manual describing the configuration of various mail client applications can be found at <https://www.uni-marburg.de/de/hrz/dienste/e-mail/>
 - Click on “Einstellungen für Mailprogramme”
 - Important: use the settings from the column „Studierende“
- Using the webmailer
 - <https://home.students.uni-marburg.de/>
 - If you ever forget it's URL, a link to the webmailer can also be found on the page linked above: „Webmailer für Studierende“

@students account

Email – forwarding / spam filter

- Both filter are implemented using filter rules
- Log into the webmailer and select Mail → Filters (*) from the menu (alternatively, there is a link on the page with the management web forms)
- Clicking the X or the word disabled (*) activates the corresponding rule
- Clicking the check mark disables a rule
- To configure a rule, click on its name
 - For example, clicking on Forward (*) allows to configure the destination address mail is forwarded to

Existing Rules 	
 Blacklist	 Disabled
 Spam Filter	
 Vacation	 Disabled
 Forward	 Disabled

*: or sth. equivalent, depending on the language settings of your browser

@students account

Access restricted resources

- Some resources are only available from inside the university's network
 - Restricted areas of the university's homepage ("Intranet")
 - Scientific articles and books licensed by the university library
 - Network drives, e.g., your home directory
 - Remote access to machines of the department → Part III
 - ...
- You might be familiar with a comparable kind of restriction used, e.g., by streaming services: region locks
 - Limit access to movies, shows, or games to certain countries
- In both cases, access is restricted based on the client's IP address

@students account

Virtual private network (VPN)

- The solution for dealing with IP-based restrictions is a VPN*
 - Redirects network traffic through a VPN server
 - Depending on the VPN, either all network traffic or **only the traffic to certain subnets is** redirected or “tunneled”
 - Your computer/smartphone gets assigned an IP address belonging to the university’s network
 - From the viewpoint of an access-controlled (web) server it looks like you are physically inside the university’s network – no matter where in the world you actually are
- A manual describing the installation of required software and the connection to the VPN can be found at <https://www.uni-marburg.de/de/hrz/dienste/vpn>

* No longer required for accessing articles and books → EZproxy

@students account

VPN needs Two Factor Authentication (2FA)

- Access to the VPN requires 2FA to increase security
 - Also required for MARVIN, ...
- University staff are provided with hardware tokens (yubikey) 😎
- For students, there are two options
 - “TAN token”
 - fancy name for a TAN list - 🧑🧑 remember those
 - Cheap and easy, but cumbersome to use (and less secure)
 - “APP token”
 - An app-based OTP
 - Requires Google Authenticator or a comparable app

<https://www.uni-marburg.de/de/hrz/dienste/2fa>

@students account

Wireless network access (Eduroam)

- Wireless network is available in (almost?) any university building
 - You can access the wireless network using your @students account
 - Furthermore: you can access the wireless networks on many universities all over the world – thanks to the Eduroam initiative
- Setting up the wireless network is a bit more complicated compared to the wireless network you use at your home
- Depending on your device and its operating system, there exists
 - Software for automatically configuring the wireless network
 - Instructions for manually configuring the wireless network

<https://www.uni-marburg.de/de/hrz/dienste/wlan>

@students account Hessenbox

- Hessenbox is a so-called sync&share solution, comparable to Dropbox, Own-/Nextcloud, ...
- It allows to
 - Share files via links
 - Synchronize a local folder on your device to the Hessenbox
 - Store up to 30 GB of data per user
- Collaboration between all universities in Hesse
 - Based on the commercial software Powerfolder
 - Hosted on servers in Marburg and at other universities in Hesse
 - Data protection: 👍 – Look and feel: 👎

<https://www.uni-marburg.de/de/hrz/dienste/sync-share>

@students account

Printing

- Printing is possible using
 - Any computer managed by the HRZ
 - Windows machines of the department
 - Your computer at home (requires using the VPN and installing the QPilot software)
 - (Smartphones → beyond the scope of this presentation)
- Two (virtual) printers: *Public_Kopierer_SW* and *Public_Kopierer_Farbe* for black-and-white and color printing, respectively
- When printing a document, a dialog opens
 - enter the card number printed on the front side of your Ucard
- You can “print” multiple documents at once

@students account

Printing – the part where actual paper is involved...

- Find a suitable printer (looks like a big copy machine you might know from copy shops) in any university building
- Required steps at the printer:
 - Insert your Ucard into the card slot
 - Select "Drucken" in the printer's menu
 - Select the print job to actually print from the list
- Pricing – the total amount is deducted from your Ucard balance
 - DIN A4 b/w 4ct, color 35ct
 - DIN A3 b/w 8ct, color 70ct
 - (Scanning A4/A3 2ct, resulting documents are sent to you via email, prior registration to the scan2mail service is required)

<https://www.uni-marburg.de/de/hrz/dienste/kopieranlage>

@students account

“Free” windows software...

- ... as in “the department pays for it”
- This is basically Microsoft Office 365, but **without** Teams, OneDrive, Sharepoint or Exchange-Online.
 - You have to allow the HRZ to create a Microsoft School account for by using a form you find under the link below.
 - Using that account, you can use Office 365 in the ☁️ or download Office Professional Plus for local installation.

<https://www.uni-marburg.de/de/hrz/dienste/software/microsoft-365/bildungsbenutzerkonto-fuer-microsoft-365-aktivieren>

Student orientation – summer semester 2025

Accounts and services

Part III

Services of the Department of Mathematics and Computer Science

Problems? Questions? 🤯

Direct all questions regarding

- Your @mathematik account
- Services provided by the department

to

itsolutions@mathematik.uni-marburg.de

Please use your @mathematik email address when you contact us, or
– if for some reason not possible – use your @students email address. This allows us to help you quickly!

We really don't know who john.doe17@gmail.com is 🤔

@mathematik account

Request an account

- Send an email **from your @students email address** to useradmin@mathematik.uni-marburg.de

that contains the following information:

Matriculation number : _____

University email : _____@students.uni-marburg.de

Last Name : _____

First Name : _____

- Credentials are sent via email to the @students address
→ **Change your password asap!**

@mathematik account

Most important advice of all times™

- Actually, you get **two distinct accounts** at the department
 - Windows
 - Linux (**email**, SSH)
- Consequently, there are **two passwords** as well!
 - Initially, the passwords are identical
 - The passwords **need to be changed individually**, either
 - Locally, using one of the PCs managed by the department
 - Remotely, using secure shell (SSH) (currently only on Linux)
- Forgot your password?
 - Come to us (rooms 04D05-04D08, next to the student council's office)
 - Bring your ID card (Personalausweis) or Passport for identification

@mathematik account

Changing your password locally

- Windows
 - Find an unused PC running Windows in one of the pools
 - Login using your Windows @mathematik account
 - Press Ctrl+Alt+Delete (== Strg+Alt+Entf on a german keyboard)
 - Click on “Change a password” / “Kennwort ändern”
- Linux
 - Find an unused PC running Linux in one of the pools
 - Login using your Linux @mathematik account
 - Start a terminal
 - Enter the command `passwd`
 - An example of using that command is shown in a few slides

@mathematik account

Important advice regarding logging in

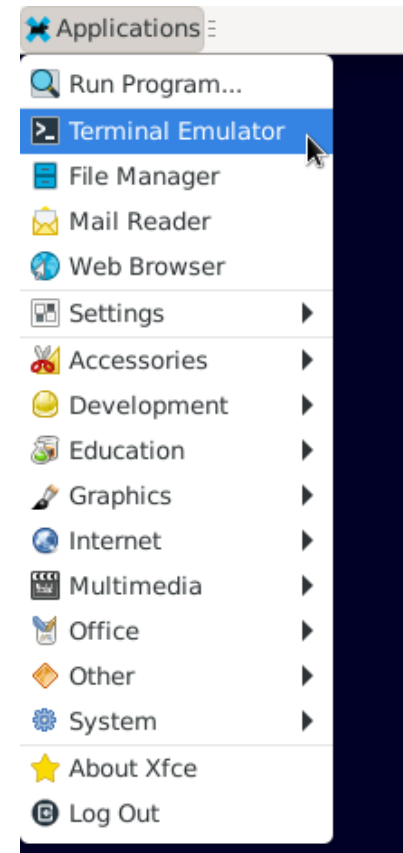
- Your **username** is the **only the part before the @** in your @mathematik email address!
 - If your email address is johndoe@mathematik.uni-marburg.de, your username is johndoe
 - This is true for both Linux and Windows (technically it's INFORMATIK\johndoe on Windows, but you don't need to enter the INFORMATIK\ part)
- Use the password of @mathematik account **matching the Operating System** of that PC!

(This is more complicated for the @students account – depending on the service you want to login to, you to use either your username or your email address)

@mathematik account

Start a terminal on a Linux machine

- Option 1: use the „Applications“ menu (top-left corner of the screen)
- Option 2: use the „Launcher“ (bottom-center of the screen)



PC pools managed by the department

- A3 → 16 PCs (Windows), 4 notebook workstations (Display, Keyboard and Mouse) + 2 PCs (Windows) in the foyer
- A4 → 21 PCs (Windows)
 - Teaching has priority, you might be asked to leave
- C4 → 5 PCs (2 running Linux, 3 running Windows)
- D4 → 5 PCs (3 running Linux, 2 running Windows)

<https://www.uni-marburg.de/de/fb12/fachbereich/infrastruktur/pc-pools>

@mathematik account

Changing your password remotely

- The password can be changed using SSH remote access
- The screenshots were taken under MacOS, but the process is almost identical on Linux or Windows
 - More details about using SSH can be found in Part IV
- On the screenshots, colored boxes are used to highlight important parts
 - Red boxes mark places where you input either commands or passwords (passwords are entered invisible!)
 - Yellow boxes mean important information you should verify, i.e., the fingerprint of the remote machine
- Note that you need to use VPN if you're not in the university's network and have not yet set up public key authentication!

@mathematik account

Remote access via secure shell (SSH)

- Access the Linux machines of the department remotely
- Authentication using password is **only allowed from within the university's wired network or using the VPN**
 - For regular remote access, using public key authentication is recommended – VPN is not required in that case
- Connect to `login.mathematik.uni-marburg.de`
 - Remember to enter the username without `@mathematik`
- A ssh client is included in most modern operating systems
 - Older Windows version without SSH: ~~use PuTTY~~ **update!**
- Accessing the files in your Linux home directory is possible with `scp`
 - Graphical clients are also available: WinSCP or CyberDuck

@mathematik account

Changing your password remotely

- The password can be changed using SSH remote access
- The screenshots were taken on macOS, but the process is almost identical on Linux or Windows
 - More details about using SSH can be found in Part IV
- In the screenshots, colored boxes are used to highlight important parts
 - Red boxes mark places where you input either commands or passwords (**passwords you enter are invisible!**)
 - Yellow boxes mean important information **you should verify**, i.e., the fingerprint of the remote machine
- **Again:** you need to use VPN if you're not in the university's network and have not yet set up public key authentication!

@mathematik account

(First) remote login at login.mathematik.[...].de

```
rschwarzkopf — ssh rschwarzkopft@login.mathematik.uni-marburg.de — 80x24
[user@macbook ~ % ssh rschwarzkopft@login.mathematik.uni-marburg.de ]
The authenticity of host 'login.mathematik.uni-marburg.de (137.248.123.170)' can
't be established.
ECDSA key fingerprint is SHA256:ERYR6JfV/ZcRdBGEhepFSGPTee/a6A+1skV6/Wyndj8
Are you sure you want to continue connecting (yes/no/[fingerprint])? yes
Warning: Permanently added 'login.mathematik.uni-marburg.de,137.248.123.170' (EC
DSA) to the list of known hosts.
[rschwarzkopft@login.mathematik.uni-marburg.de's password: ]

You are connected to login.mathematik.uni-marburg.de

This is a dedicated login server. As such, it is shared between all users.
It should only be used to connect to other machines of the department (via
ssh), to access the linux home directories remotely, and to do things like
changing passwords, checking mail, etc.

DO NOT RUN HEAVY WORKLOADS ON THIS MACHINE! Instead, use ssh to connect to
another machine - use "linuxhosts" to find one.

Problems? Questions? Missing Software? Contact us!
https://www.uni-marburg.de/de/fb12/fachbereich/infrastruktur/it-solutions

System load  0.00 0.00 0.00      Information as of  22/04/06 22:35:28
```

@mathematik account

List of valid key fingerprints

- Depending on the ssh client, a different key fingerprint might be presented to you

- Valid fingerprints for `login.mathematik.uni-marburg.de`

ECDSA	SHA256:ERYR6JfV/ZcRdBGEhepFSGPTee/a6A+1skV6/Wyndj8
ED25519	SHA256:YCvQ0U4EeGsmxQ40siWrD59GKZSSeeRMJFJ/2eENBcc
RSA	SHA256:ikXKWIHI17UFpdVjq0ThJOoS8rV0D5fYmGxw02QXICI

- Valid fingerprints for `altlogin.mathematik.uni-marburg.de`

ECDSA	SHA256:LK0FqxxfvRzmvAh0GXYj0Kyb263dxt1qUCEo/gTutFw
ED25519	SHA256:Hfs4mTE7UIiRkBg4LIi64cGQemi0GIcEQ0ipx5dn7wQ
RSA	SHA256:7Xn1b5zw93Qxl73Dg0sdLQ1JAwKQ0qSfQ8ZA7N5fz7c

@mathematik account

Changing the password for Linux & mail (remotely)

```
rschwarzkopf — ssh rschwarzkopft@login.mathematik.uni-marburg.de — 80x24

It should only be used to connect to other machines of the department (via
ssh), to access the linux home directories remotely, and to do things like
changing passwords, checking mail, etc.

DO NOT RUN HEAVY WORKLOADS ON THIS MACHINE! Instead, use ssh to connect to
another machine - use "linuxhosts" to find one.

Problems? Questions? Missing Software? Contact us!
https://www.uni-marburg.de/de/fb12/fachbereich/infrastruktur/it-solutions

System load  0.00 0.00 0.00      Information as of 22/04/06 22:49:36
Memory usage 17%                Processes        130
Swap usage   0%                Users logged in  0
Disk usage   / 32.7% of 8.81GB      IP addresses
                                           enp1s0  137.248.123.170

Last login: Wed Apr  6 22:37:33 2022 from mvpn0397.vpn.uni-marburg.de
rschwarzkopft@tigh ~$ passwd
Current Password: 
New password: 
Retype new password: 
passwd: password updated successfully
rschwarzkopft@tigh ~$
```

@mathematik account

Home directories

- Remember the most important advice of all times™?
- You have two accounts at the department
 - Windows
 - Linux (**email**, SSH)
- Consequently, there are **two** independent **home directories**
 - Windows: drive W:, up to 32 GB of storage
 - Linux: /app/home/<userid>, up to 32 GB of storage
 - Available under Windows as drive U:

@mathematik account

Second most important advice of all times™

Only relevant for accounts created before April 16th, 2025!

- It is possible to **access home directories of other users**
 - Windows:
 - S:\HOMES.WINDOWS\ - S:\HOMES.UNIX\
 - Linux: /app/home/<userid>
- You can modify your files' ACLs to limit access by other users, but this can have unforeseen side effects!
 - → Better leave the ACLs at their default settings
- So, **where to store your private data?**
 - Windows: W:\Documents
 - Linux: /app/home/<userid>/private
 - Files in these directories can be accessed only by you

@mathematik account

Third most important advice of all times™

- Windows machines of the department use **roaming profiles**
 - Profile (e.g., application settings, ...) is copied from the server to the PC on login (and back to the server on logout)
 - The bigger the profile, the longer the login and logout take
- Problem: certain software installs itself into the profile
 - Why? Normal users (e.g., you) normally can't install software on managed PCs – they can't write to system folders
 - This is becoming more widespread (JetBrains, VS Code, ...)
 - The amount of data this software stores there is growing (plugins, documentation, ...)
 - **Don't install software yourself!**
 - **This problem is (mostly) fixed for preinstalled applications.**

@mathematik account

Email – Access

- Using a mail client
 - A manual describing the configuration of various mail client applications can be found at <https://www.uni-marburg.de/de/fb12/fachbereich/infrastruktur/it-administration/dienste-und-anwendungen/mail>
- Using the webmailer
 - <https://www.mathematik.uni-marburg.de/webmail/>
 - The department's website contains a link to the webmailer

@mathematik account

Email – Forwarding

- Forwarding is done using procmail
 - This is an ancient mail filtering tool (first release was in 1990)
 - The configuration format is as crude as you imagine
 - You should only modify the procmail configuration if you **REALLY** know what you're doing!
 - To enable forwarding use the following command (either locally in a terminal or via SSH):
forward enable musterm@students.uni-marburg.de
 - Spam is not forwarded → if you expect an important email, you need to manually check the spam folder!

@mathematik account

Email – Spam filter

- All incoming mail is automatically classified as spam / ham
 - Use the following command, to sort mails classified as spam into the spam folder
`spamfilter on`
 - Do **not use** this command **in combination with** the **forward** command!

Student orientation – summer semester 2025
Accounts and services

Part IV

Extended secure shell “tutorial”

Extended secure shell “tutorial”

Restrictions

- You can login to almost any linux machine, except for some servers that are restricted for normal users
- From outside the university’s network – without using the VPN
 - You can only connect to `login(.mathematik.uni-marburg.de)` or `altlogin(.mathematik.uni-marburg.de)`
 - Password authentication is forbidden
 - Only public key authentication is allowed
- From inside the university’s network or when using the VPN
 - You can connect to any linux machine directly
 - Password authentication is allowed
 - (Public key authentication is also allowed, of course)

Extended secure shell “tutorial”

Client programs

- You need an SSH client program to connect to a remote machine
- Linux / MacOS
 - You can use the `ssh` program in a terminal
- Windows
 - Recent versions of Windows 10 include a native SSH client, that works like its Linux or MacOS counterpart
 - In fact, it's the same piece of software
 - Even the Windows terminal is getting usable in the latest versions
 - For older Windows versions (seriously?), you need to install an SSH client like PuTTY

Extended secure shell “tutorial”

The “tutorial” part

- The following slides show the process of creating a `.forward` file on MacOS and Windows
 - Only the first step – connect to a linux machine of the department – is shown for both OSes/Clients
 - The remaining steps are identical on all OSes/Clients
 - Linux is omitted, because it is almost identical to MacOS (only starting the Terminal might be a little bit different)
- Note that you need to use VPN if you’re not in the university’s network if you have not set up public key authentication!

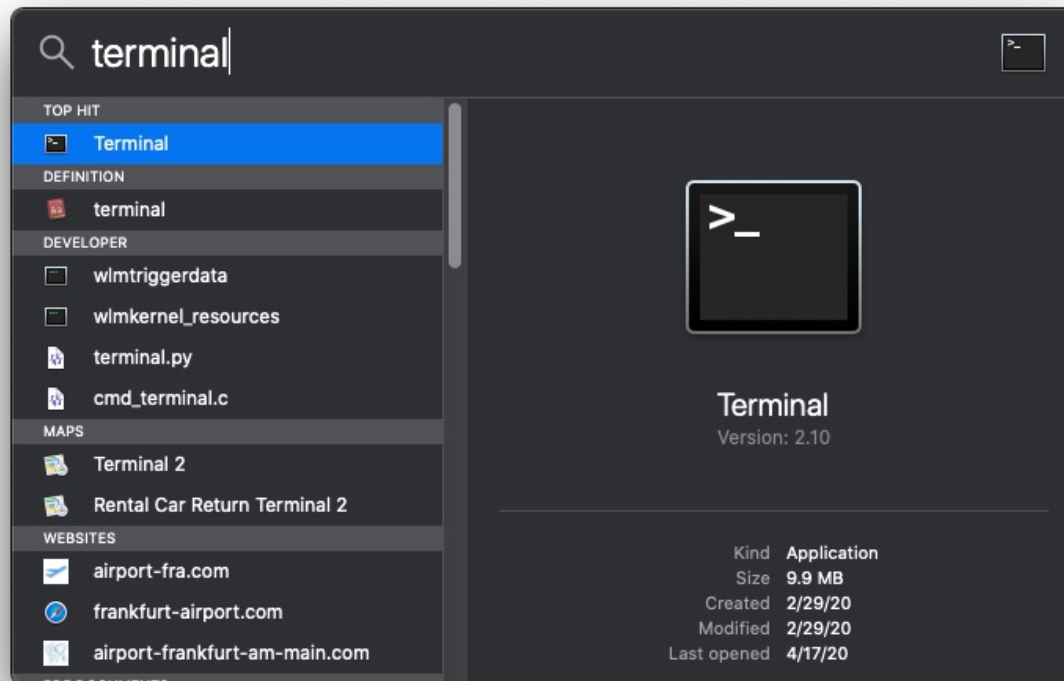
Extended secure shell “tutorial”

The “tutorial” part

- On the screenshots, colored boxes are used to highlight important parts
 - Red boxes mark places where you input either commands or passwords (passwords are entered invisible!)
 - Yellow boxes mean **important information you should verify, i.e., the fingerprint of the remote machine**

Extended secure shell “tutorial”

Connecting on Mac OS



Extended secure shell “tutorial”

Connecting on Mac OS

```
rschwarzkopf — ssh rschwarzkopft@login.mathematik.uni-marburg.de — 80x24
[user@macbook ~ % ssh rschwarzkopft@login.mathematik.uni-marburg.de ]
The authenticity of host 'login.mathematik.uni-marburg.de (137.248.123.170)' can
't be established.
ECDSA key fingerprint is SHA256:ERYR6JfV/ZcRdBGEhepFSGPTee/a6A+1skV6/Wyndj8
Are you sure you want to continue connecting (yes/no/[fingerprint])? yes
Warning: Permanently added 'login.mathematik.uni-marburg.de,137.248.123.170' (EC
DSA) to the list of known hosts.
[rschwarzkopft@login.mathematik.uni-marburg.de's password: ]

You are connected to login.mathematik.uni-marburg.de

This is a dedicated login server. As such, it is shared between all users.
It should only be used to connect to other machines of the department (via
ssh), to access the linux home directories remotely, and to do things like
changing passwords, checking mail, etc.

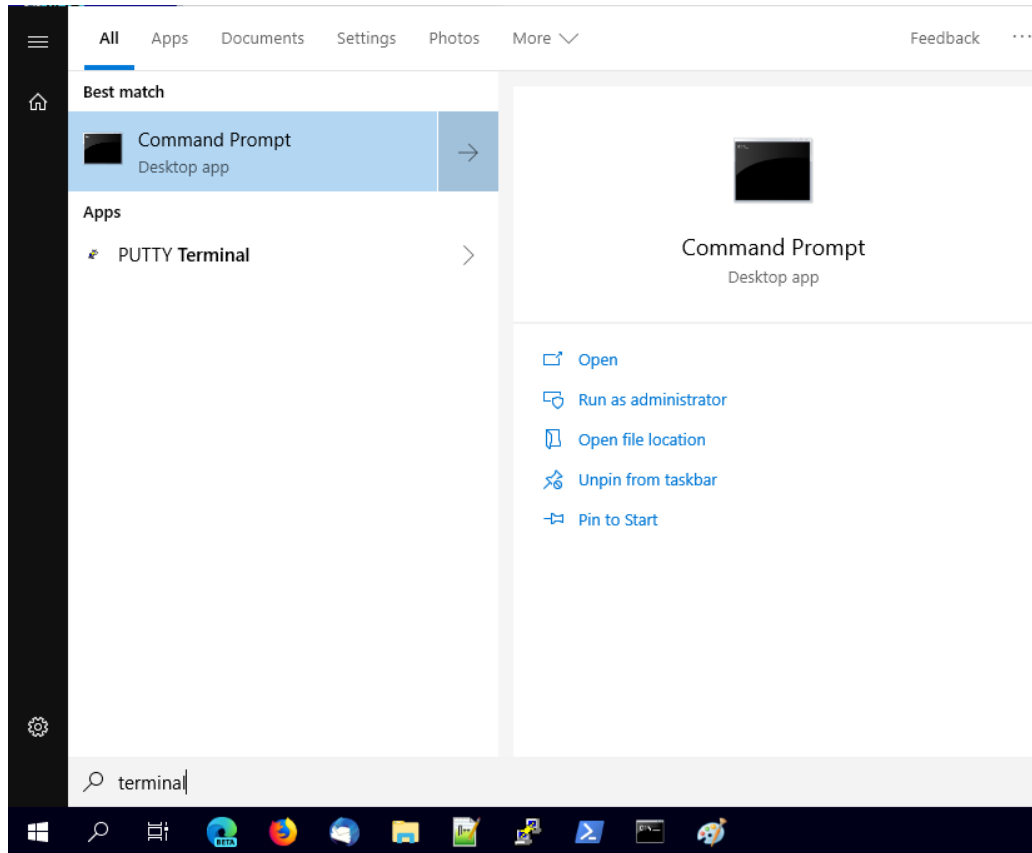
DO NOT RUN HEAVY WORKLOADS ON THIS MACHINE! Instead, use ssh to connect to
another machine - use "linuxhosts" to find one.

Problems? Questions? Missing Software? Contact us!
https://www.uni-marburg.de/de/fb12/fachbereich/infrastruktur/it-solutions

System load  0.00 0.00 0.00      Information as of  22/04/06 22:35:28
```

Extended secure shell “tutorial”

Connecting on Windows – OpenSSH



Extended secure shell “tutorial”

Connecting on Windows – OpenSSH

```
rschwarzkopf@tigh: ~
Microsoft Windows [Version 10.0.17763.3469]
(c) 2018 Microsoft Corporation. Alle Rechte vorbehalten.

W:\> ssh rschwarzkopf@login.mathematik.uni-marburg.de
The authenticity of host 'login.mathematik.uni-marburg.de (137.248.123.170)' can't be established.
ECDSA key fingerprint is SHA256:ERYR6JfV/ZcRdBGEhepFSGPTee/a6A+1skV6/Wyndj8.
Are you sure you want to continue connecting (yes/no)? yes
Warning: Permanently added 'login.mathematik.uni-marburg.de,137.248.123.170' (ECDSA) to the list of known hosts.
rschwarzkopf@login.mathematik.uni-marburg.de's password:

You are connected to login.mathematik.uni-marburg.de

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ssh), to access the linux home directories remotely, and to do things like
changing passwords, checking mail, etc.

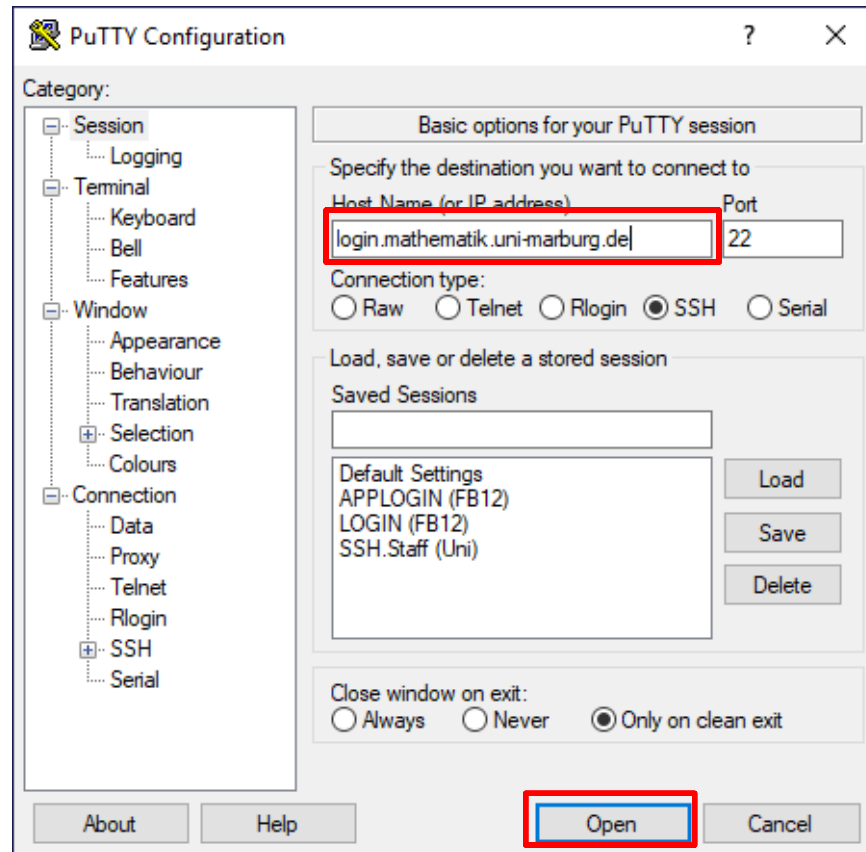
DO NOT RUN HEAVY WORKLOADS ON THIS MACHINE! Instead, use ssh to connect to
another machine - use "linuxhosts" to find one.

Problems? Questions? Missing Software? Contact us!
https://www.uni-marburg.de/de/fb12/fachbereich/infrastruktur/it-solutions

System load  0.00 0.00 0.00      Information as of 22/10/13 17:15:15
Memory usage 17%                Processes      136
Swap usage   0%                  Users logged in 1
Disk usage   / 38.5% of 8.81GB        IP addresses
enp1s0      137.248.123.170
```

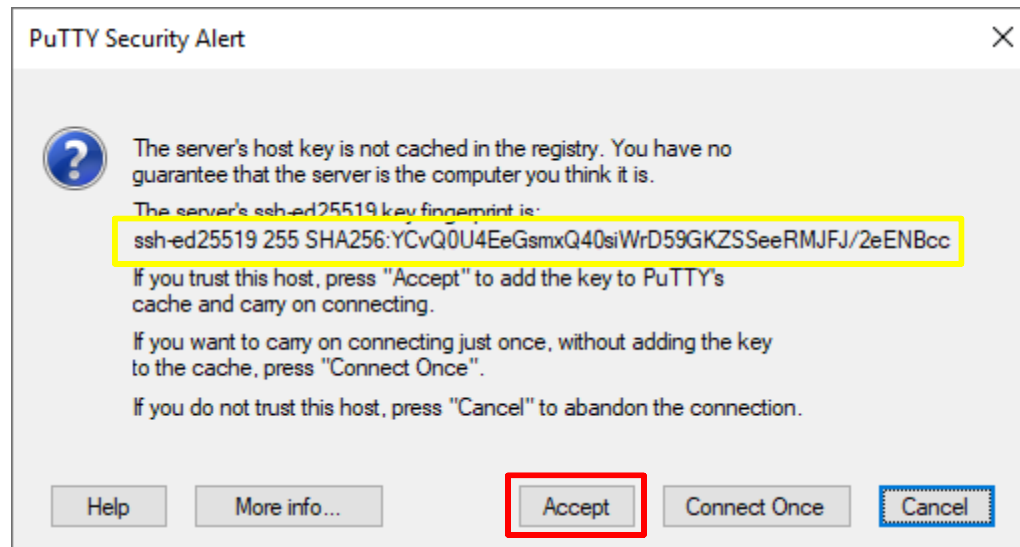

Extended secure shell “tutorial”

Connecting on Windows – PuTTY



Extended secure shell “tutorial”

Connecting on Windows – PuTTY



Extended secure shell “tutorial”

Connecting on Windows – PuTTY

```
rschwarzkopf@tigh: ~  
login as: rschwarzkopf  
rschwarzkopf@login.mathematik.uni-marburg.de's password:  
  
You are connected to login.mathematik.uni-marburg.de  
  
This is a dedicated login server. As such, it is shared between all users.  
It should only be used to connect to other machines of the department (via  
ssh), to access the linux home directories remotely, and to do things like  
changing passwords, checking mail, etc.  
  
DO NOT RUN HEAVY WORKLOADS ON THIS MACHINE! Instead, use ssh to connect to  
another machine - use "linuxhosts" to find one.  
  
Problems? Questions? Missing Software? Contact us!  
https://www.uni-marburg.de/de/fbl2/fachbereich/infrastruktur/it-solutions  
  
System load  0.00 0.00 0.00      Information as of 22/10/13 17:13:48  
Memory usage 17%                Processes      138  
Swap usage   0%                  Users logged in 2  
Disk usage   / 38.5% of 8.81GB           IP addresses  
enpls0      137.248.123.170  
  
Last login: Thu Oct 13 17:13:07 2022 from pcl2348
```

Extended secure shell “tutorial”

Enable email forwarding

```
rschwarzkopf — ssh rschwarzkopft@login.mathematik.uni-marburg.de — 80x24

ssh), to access the linux home directories remotely, and to do things like
changing passwords, checking mail, etc.

DO NOT RUN HEAVY WORKLOADS ON THIS MACHINE! Instead, use ssh to connect to
another machine - use "linuxhosts" to find one.

Problems? Questions? Missing Software? Contact us!
https://www.uni-marburg.de/de/fb12/fachbereich/infrastruktur/it-solutions

System load  0.00 0.00 0.00      Information as of 22/04/07 09:10:27
Memory usage 17%                Processes      144
Swap usage   0%                Users logged in 5
Disk usage   / 32.4% of 8.81GB      IP addresses
                                           enp1s0 137.248.123.170

Last login: Thu Apr  7 09:08:45 2022 from en12002
[rschwarzkopft@tigh ~]$ forward enable schwarzx@staff.uni-marburg.de
enable forwarding to schwarzx@staff.uni-marburg.de
* generating .procmailrc
mail forwarding enabled.

ATTENTION: spam is not forwarded. Check your @mathematik spam folder regularly!
rschwarzkopft@tigh ~$
```

Extended secure shell “tutorial”

Terminate connection

```
rschwarzkopf — -zsh — 80x24

DO NOT RUN HEAVY WORKLOADS ON THIS MACHINE! Instead, use ssh to connect to
another machine - use "linuxhosts" to find one.

Problems? Questions? Missing Software? Contact us!
https://www.uni-marburg.de/de/fb12/fachbereich/infrastruktur/it-solutions

System load  0.00 0.00 0.00      Information as of 22/04/07 09:10:27
Memory usage 17%                Processes      144
Swap usage   0%                Users logged in 5
Disk usage   / 32.4% of 8.81GB    IP addresses
                                           enp1s0  137.248.123.170

Last login: Thu Apr  7 09:08:45 2022 from en12002
[rschwarzkopft@tigh ~]$ forward enable schwarzx@staff.uni-marburg.de
enable forwarding to schwarzx@staff.uni-marburg.de
* generating .procmailrc
mail forwarding enabled.

ATTENTION: spam is not forwarded. Check your @mathematik spam folder regularly!
[rschwarzkopft@tigh ~]$ exit
logout
Connection to login.mathematik.uni-marburg.de closed.
user@macbook ~ %
```