

Dipl.-Ing. Steffen Kampmann

Chair of Materials Science and Nanotechnology, TU Dresden

PMN IT Instructions

Dresden, 16.11.2023, Biannual Chair Information Event

Contact: steffen.kampmann@tu-dresden.de

General Information

- **ZIH** is IT administration unit of TU Dresden
- Therefore, you can write to ZIH if you have any problems with IT services

<https://faq.tickets.tu-dresden.de/otrs/public.pl>
servicedesk@tu-dresden.de

- I am only contact person for
 - Your office computer
 - Hardware for your office computer
 - Software like Microsoft Office, Origin etc.
 - Network printer
 - Presentation support → Laptop, Microphones, Webcams, Presenter etc.

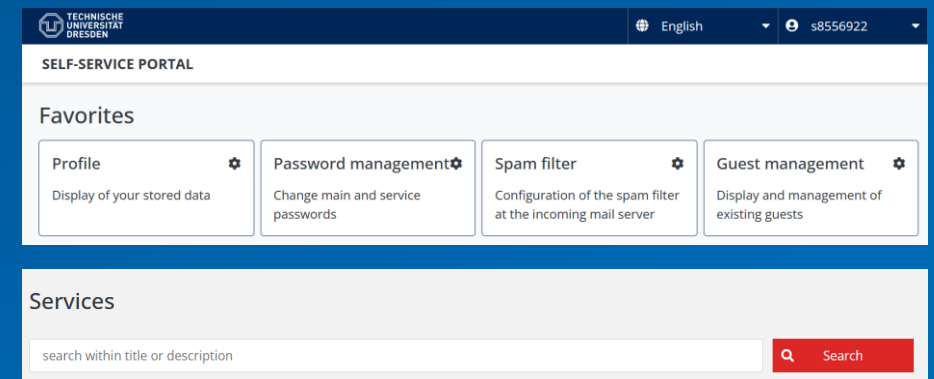
What does the IT infrastructure look like?

1. Communication & Collaboration
 - *How can we work efficient in a team?*
2. Data storage
 - *Where can I save my data?*
 - *How can I share my data?*
3. Powerful Software
 - *How can I get helpful licensed software for my work?*
4. Workstations and Server
 - *Where can I run hardware resource-hungry software?*
5. Security and Network
 - *What do I need to do to protect my data and the data of my colleagues?*

- What do I need to have access to all of that?

→ **Your ZIH login** ←

- To manage your *passwords* and *personal information* go to
<https://selfservice.tu-dresden.de/>
- See all services at glance in Self-Service Portal



1. Communication and Collaboration – Email

- **Email**

- In Browser: <https://msx.tu-dresden.de>
- Setup instructions for email clients:
 - Outlook: <https://tud.link/k43h> for **Windows** and <https://tud.link/8gfu> for **MacOS**
 - Thunderbird: <https://tud.link/8wpk> for **Windows, MacOS, Linux**
 - Apple Mail: <https://tud.link/7jpf> for **MacOS** and <https://tud.link/nhcq> for **iOS/iPadOS**
 - Gmail: <https://tud.link/15t4> for **Android**
- Please setup your signature according to your affiliation

→ Template example:

YourTitle YourFullName

Chair of Materials Science and Nanotechnology

Institute for Materials Science and Max Bergmann Center for Biomaterials Dresden

TU Dresden

Phone: *YourOfficePhoneNumber*



[1]

[1] DALL-E: <https://chat.openai.com>

1. Communication and Collaboration – Email

Setup your user certificate - **Mandatory**

- Sign you emails with you identity
- Possibility to encrypt you emails
- <https://selfservice.tu-dresden.de/services/certificate-management/overview>

SELF-SERVICE PORTALMy tasks

Certificate management (Apply for user certificates and server certificates)

[Service description](#) [Manage user certificates](#) [Server certificates via Sectigo](#) [Revoke certificates of DFN-PKI](#) [Search for certificates of DFN-PKI](#)

On this page you can view your existing user certificates, revoke them or apply for new ones.

Request certificate

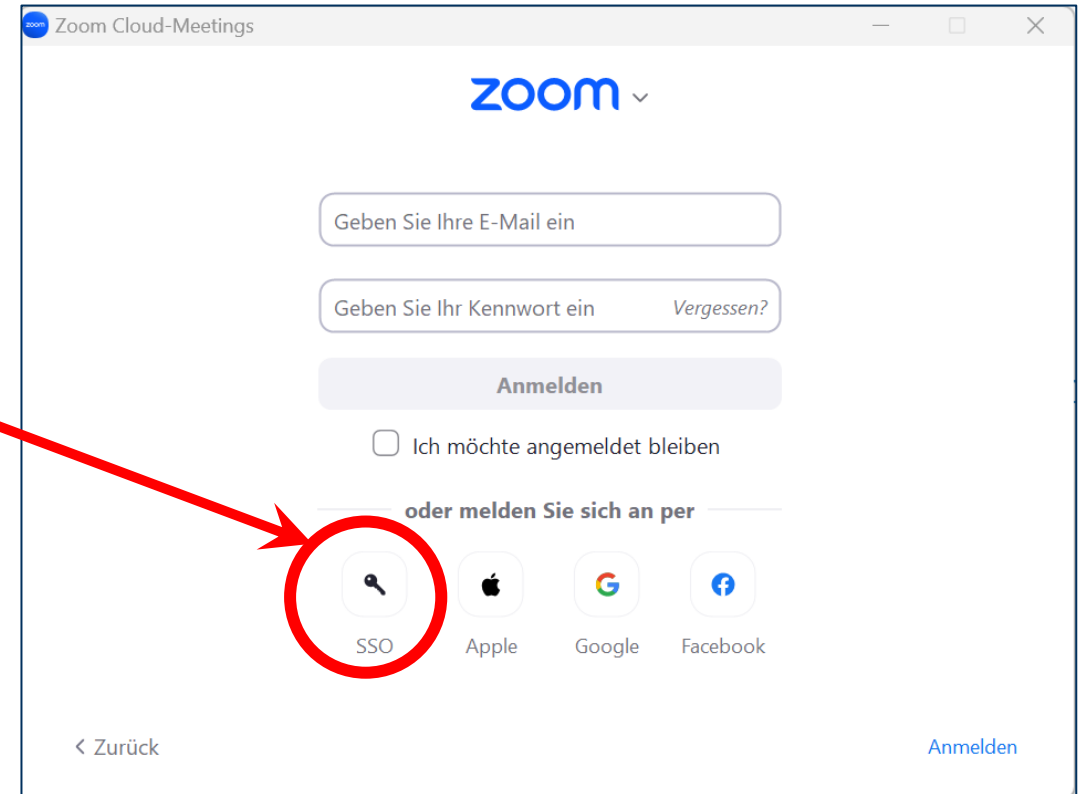
E-mail	Valid until	Serial number	Status	Actions
steffen.kampmann@tu-dresden.de	March 16, 2025		valid	 

Lines per page: 1-1 from 1  1 

1. Communication and Collaboration – Zoom

- **Zoom**

- Click „Sign in“ at <https://tu-dresden.zoom.us/>
- Create your personal link for your own Zoom room
https://tu-dresden.zoom-x.de/my/Your_Name
(Left menu on „Meetings“ → „Private room“)
- You can sign in with your ZIH-Login if you click on SSO and type *tu-dresden* in the appeared text field



Zoom Cloud-Meetings

zoom

Geben Sie Ihre E-Mail ein

Geben Sie Ihr Kennwort ein [Vergessen?](#)

Anmelden

☐ Ich möchte angemeldet bleiben

oder melden Sie sich an per

SSO Apple Google Facebook

< Zurück [Anmelden](#)

1. Communication and Collaboration – Writing article

Sharepoint (Word, Powerpoint etc.):

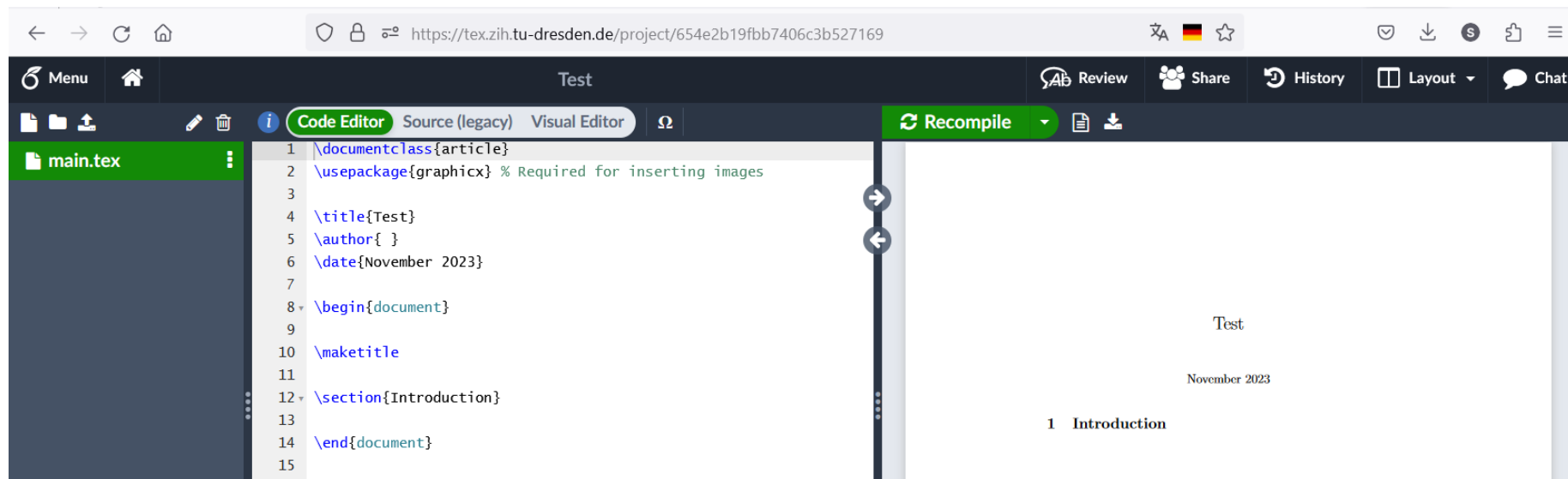
- <https://selfservice.tu-dresden.de/services/258944/>



[1]

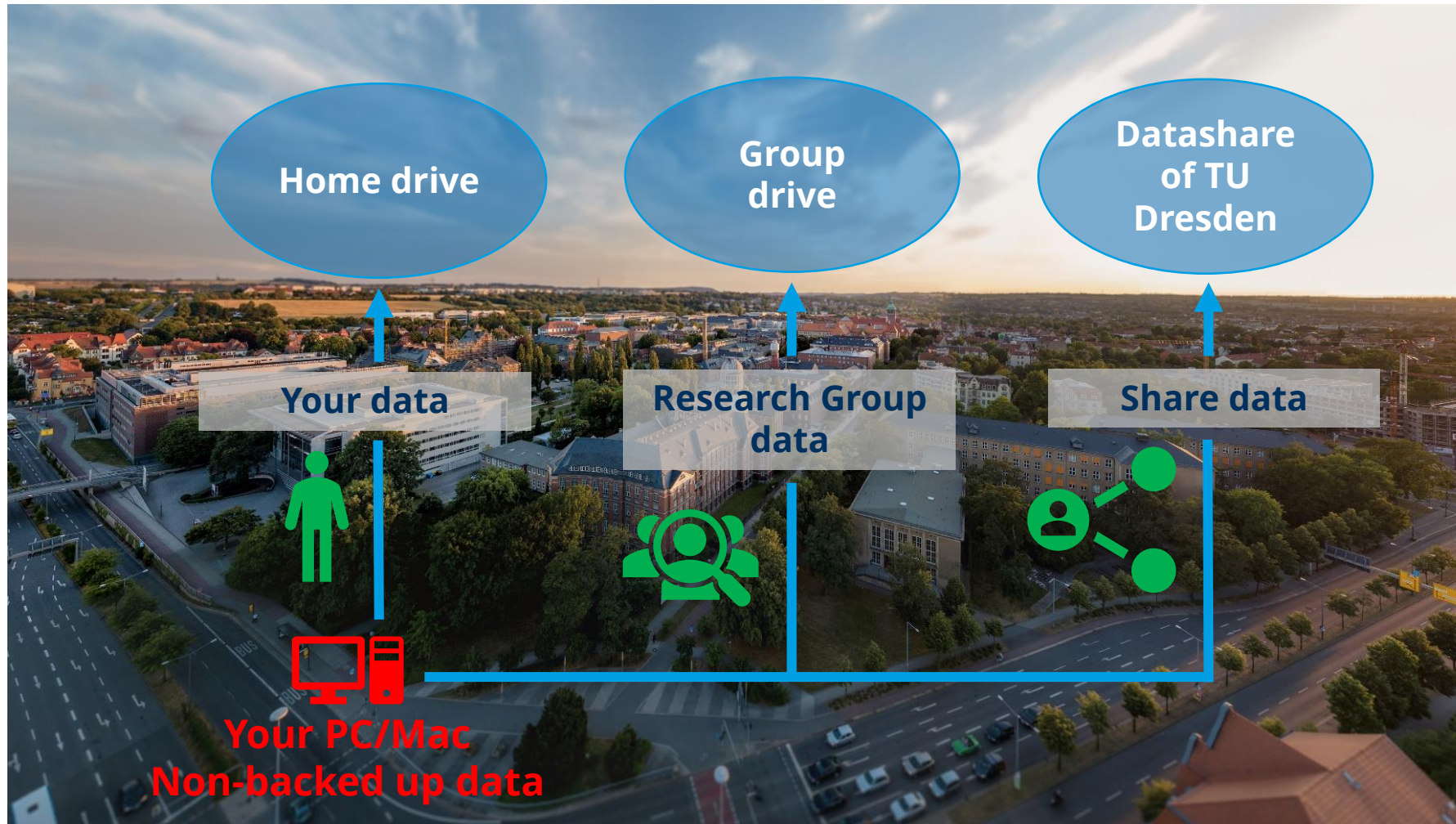
ShareLatex:

- <https://tex.zih.tu-dresden.de/>



[1] <https://de.wikipedia.org/>

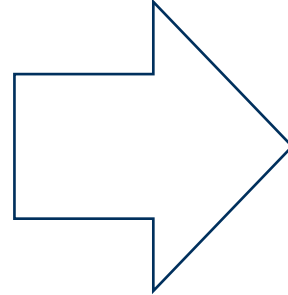
2. Data storage – Overview



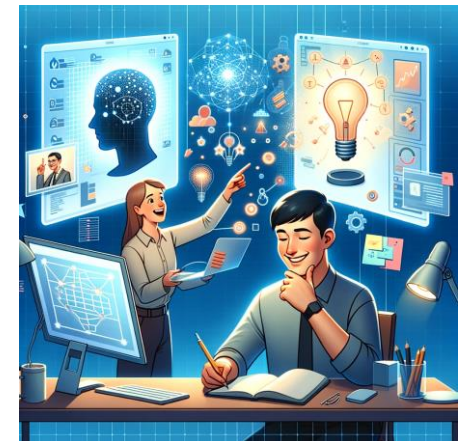
https://media-exp1.licdn.com/dms/image/C4D1BAQGhuHkHrK9Otw/company-background_10000/0?e=2159024400&v=beta&t=1cL7tUnH5XYVw6DOfbIjkskihQI2pmXPHu1d7SLXnzs

2. Data storage – Let the TU backup your data

- **Home network drive**
 - For **your data**
 - Automatic Backups and Snapshots
- **Group network drives**
 - For **many** and **large raw research data**
 - For **project** and **group** data
 - Automatic Backups and Snapshots
- **Archiving your research data**
 - **Gaining more and more importance**
 - with OpARA (<https://opara.zih.tu-dresden.de/xmlui/?locale-attribute=en>)
 - <https://selfservice.tu-dresden.de/services/358875/>



Short and simple manual at
<https://nano.tu-dresden.de/shared/14>



[1]

[1] DALL-E: <https://chat.openai.com>

2. Data storages – Share your data easily

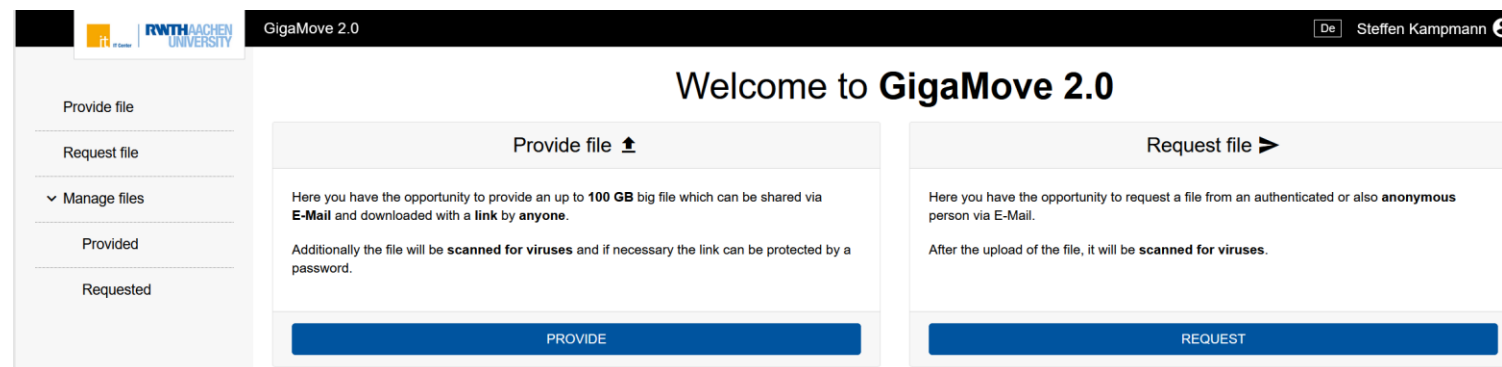
- **Datashare** based on Nextcloud environment
 - <https://datashare.tu-dresden.de/>
 - You can upload, download and share Data with internal and **external people**
 - **App** for Windows, Mac, iOS and Android
 - <https://nextcloud.com/de/install/#install-clients>
 - Installation and setup manual: <https://tud.link/fsvs>
- **Gigamove 2.0**
 - Share of large data until 100 GB (*Hint: Zip data to one file and then share it*)
 - <https://selfservice.tu-dresden.de/services/2250335/>



[1]



[3]

The screenshot shows the GigaMove 2.0 web interface. At the top, there's a header with the RWTH Aachen University logo and the text "GigaMove 2.0" and "Steffen Kampmann". Below the header, there's a sidebar with navigation links: "Provide file", "Request file", "Manage files", "Provided", and "Requested". The main content area is titled "Welcome to GigaMove 2.0" and contains two columns. The left column is titled "Provide file" and contains text about providing a file up to 100 GB, which can be shared via E-Mail and downloaded with a link by anyone. It also mentions that the file will be scanned for viruses and the link can be protected by a password. There is a blue "PROVIDE" button at the bottom. The right column is titled "Request file" and contains text about requesting a file from an authenticated or anonymous person via E-Mail. It also mentions that after the upload, the file will be scanned for viruses. There is a blue "REQUEST" button at the bottom.

[2]

- [1] <https://de.wikipedia.org/>
[2] <https://gigamove.rwth-aachen.de/en>
[3] DALL-E: <https://chat.openai.com>

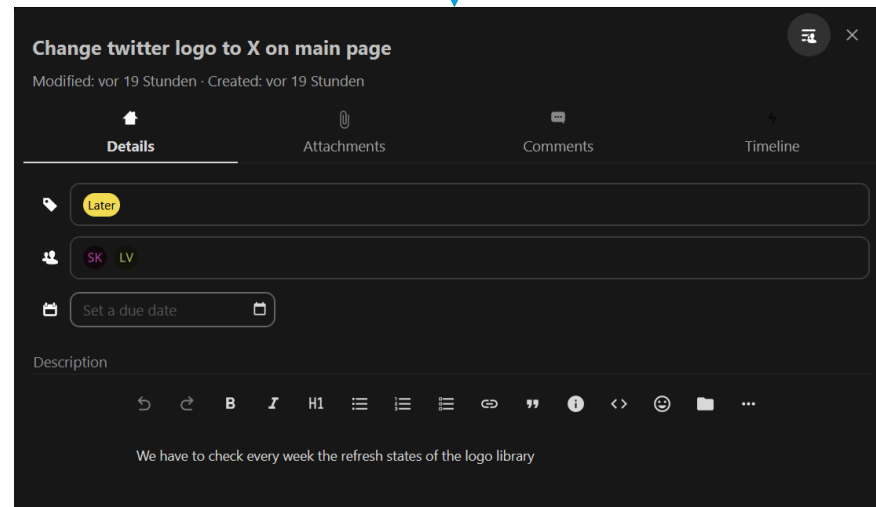
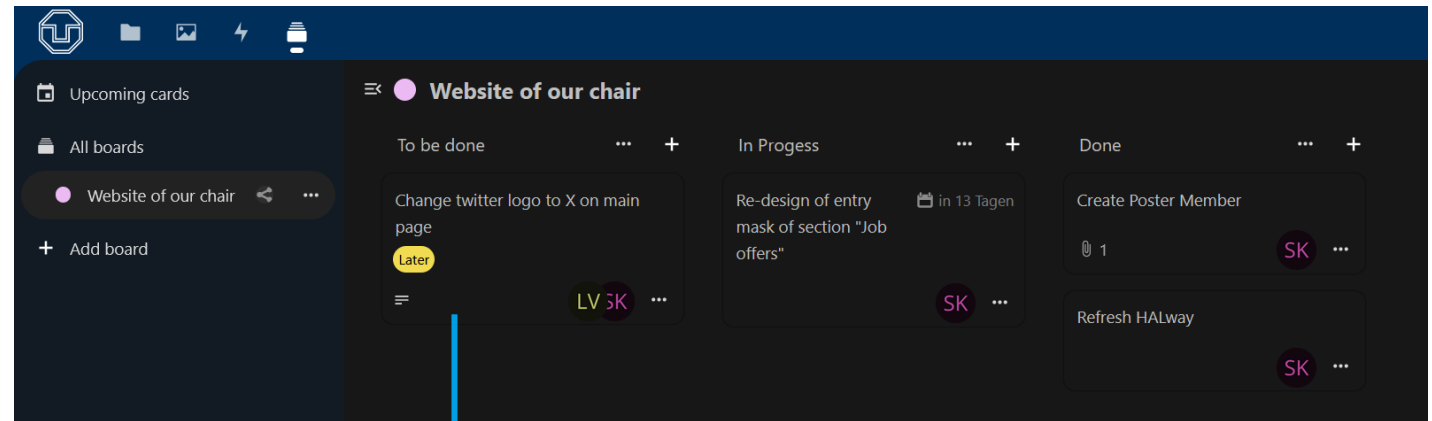
3. Software – Useful Tools

Project organizing tool **Decks**

- Available at <https://datashare.tu-dresden.de/>
- Further Apps will coming soon



[1]



[1] DALL-E: <https://chat.openai.com>

3. Software – Useful Tools

- **Microsoft Office**

- is already installed on your PC/Laptop
- Microsoft Office 365 is also available for your **private** PC/Laptop

→ For employees: <https://tud.link/9nl1>

→ For students: <https://campussachsen.tu-dresden.de/>

- **Origin**

- License of chair available
→ please contact Stephanie Klinghammer or Steffen Kampmann
(stephanie.klinghammer@tu-dresden.de, steffen.kampmann@tu-dresden.de)
- For students **private** PC/Laptop: <https://tud.link/h928>

- **Software list**

- <https://tud.link/xn1o>



3. Software – Be Careful

Please do not use	Please use following services of TU Dresden
• TeamViewer • External cloud services like Dropbox, Google Drive, OneDrive etc. → Do not save your research data there	• ISL • Home and Group drives → Save your research data there
• Software with illegal license • Software from Kaspersky Lab	• Software list of TU Dresden or ask colleagues for alternatives • Sophos (already installed)

Please only install software from trustworthy sources
E. g. <https://www.heise.de/download/>

4. Workstations and Server – Powerful Hardware

- Run your calculations on specialized Hardware that is available 24/7
- Remote workstations for computing
 - <https://selfservice.tu-dresden.de/services/research-cloud/>
 - Access via Terminal
- High Performance Computing (HPC)
 - <https://doc.zih.tu-dresden.de/>
 - To get access please contact **Dr. Rafael Gutierrez** (rafael.gutierrez@tu-dresden.de)
 - Access via Terminal



[1]



[2]

[1] DALL-E: <https://chat.openai.com>

[2] <https://tu-dresden.de/>

4. Workstations and Server – First Steps

- **Remote PC (Windows) hosted by TU Dresden**

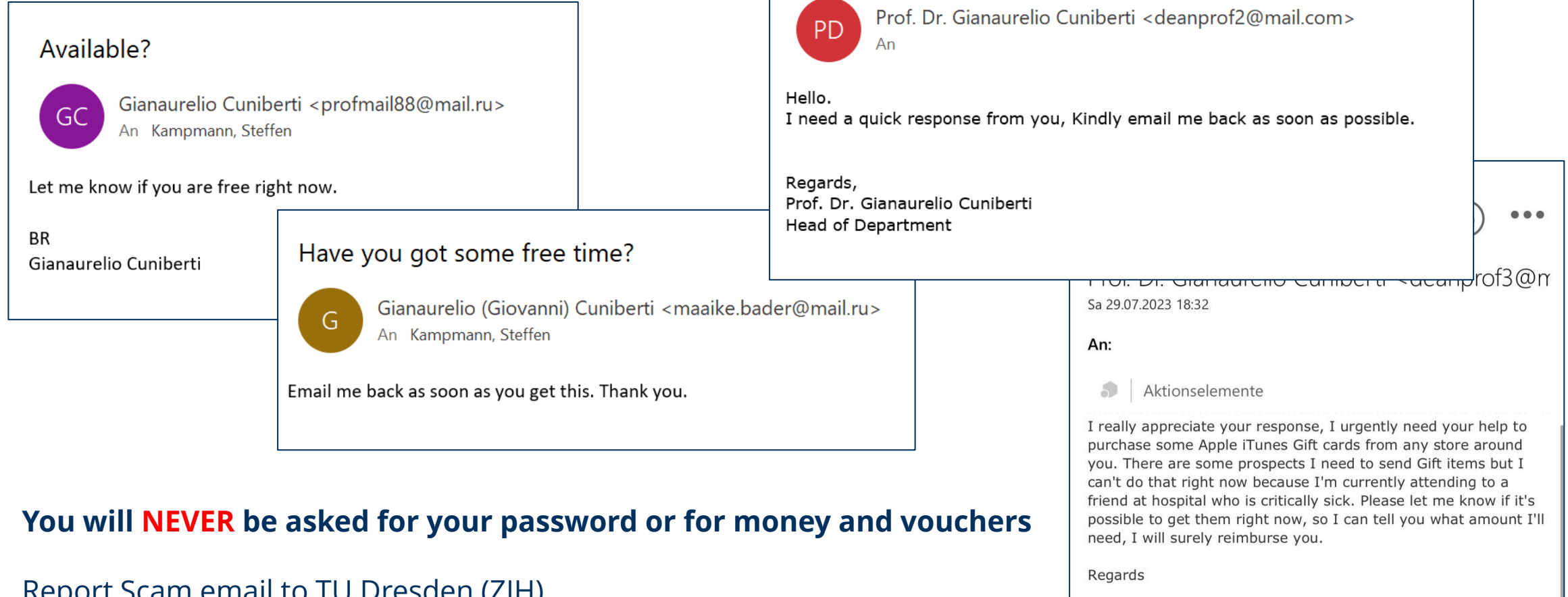
- <https://rds.zih.tu-dresden.de/>
- As student **choose** “Office Collection”
- Many preinstalled software like Origin, COMSOL Multiphysics, Microsoft Office, Python, SPSS, Maple etc.
- Your home drive is already mounted
- You have access to your data on your local PC too

- **Control your office or lab PC remotely**

- You can control your **office or lab PC** from everywhere
- <https://rsupport.zih.tu-dresden.de/users/main/downloads.html>
- You can find a simple manual in following document
<https://nano.tu-dresden.de/shared/16>



5. Security and Network – Scam Emails



You will NEVER be asked for your password or for money and vouchers

Report Scam email to TU Dresden (ZIH)

- <https://tud.link/35d7>

5. Security and Network – Stay connected with TU Dresden

- To have full access to all **services** stay in the TU network with VPN
 - Secured connection in public Wi-Fi networks e. g. on conferences

VPN

- **Install OpenVPN software**
 - <https://openvpn.net/vpn-client/>
- **Download** the TU Dresden profile file
 - <https://selfservice.tu-dresden.de/services/vpn/openvpn>
 - Execute this file
- Detailed documentation:
 - <https://tud.link/d4s7>



[1] <https://de.wikipedia.org/>

[2] https://tu-dresden.de/zih/die-einrichtung/news/eduroam-neukonfiguration-erforderlich?set_language=en

Website of our Chair

- **Public website**
 - <https://nano.tu-dresden.de/> or <https://nano-tud.de/>
- **Internal area on website**
 - <https://nano.tu-dresden.de/shared/> or <https://nano-tud.de/shared/>
 - **User:** nano
Password: nano
 - Here we share important documents
- **Please check if your profile information is up to date**
 - <https://nano.tu-dresden.de/team/>

Thank you for your attention!