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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.

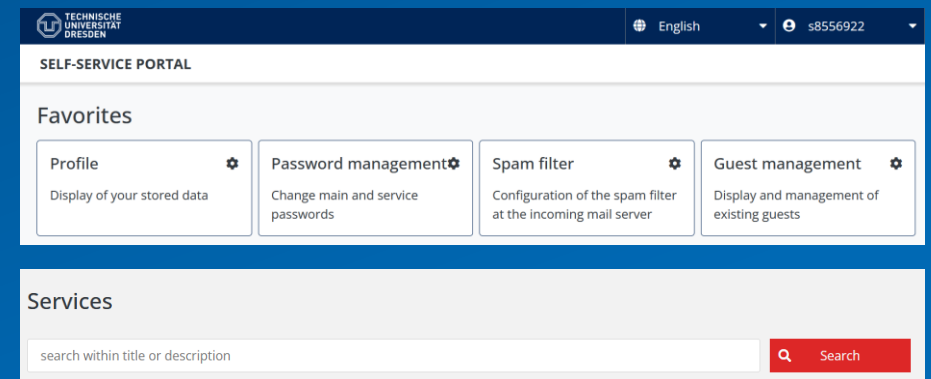
What does the IT infrastructure look like?

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 PORTAL

My 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

Q Search

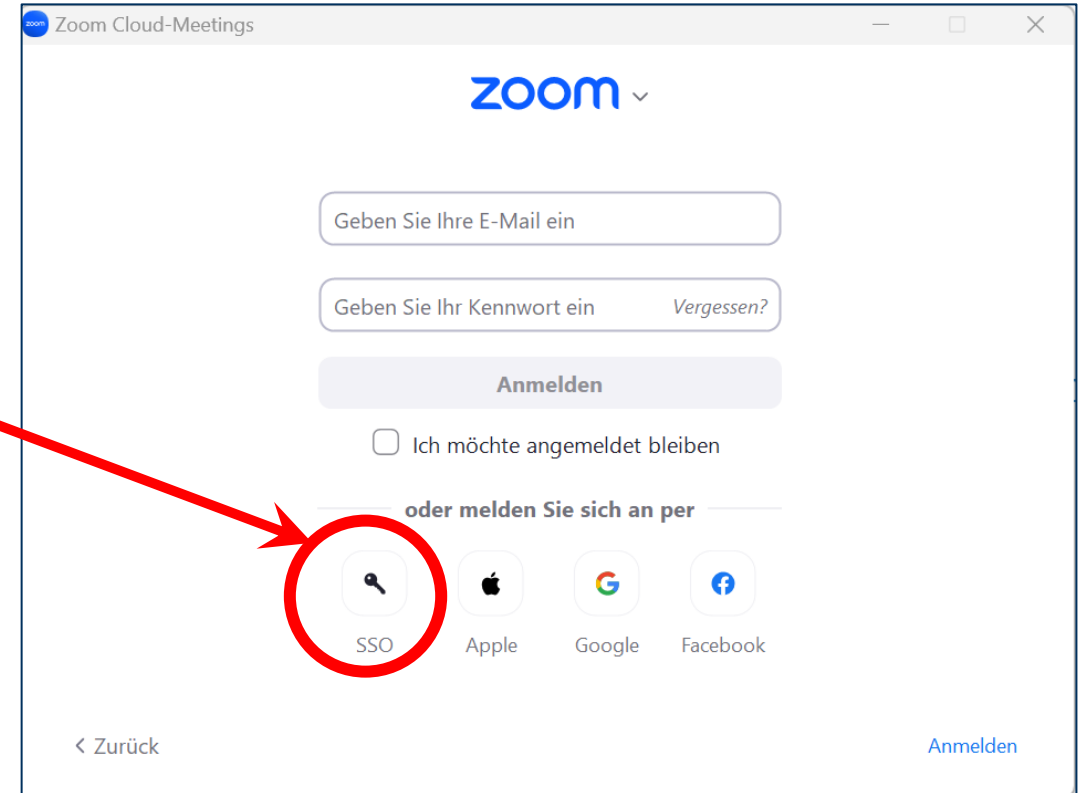
E-mail	Valid until	Serial number	Status	Actions
steffen.kampmann@tu-dresden.de	March 16, 2025		valid	 

Lines per page: 10 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



1. Communication and Collaboration – Writing article

Sharepoint (Word, Powerpoint etc.):

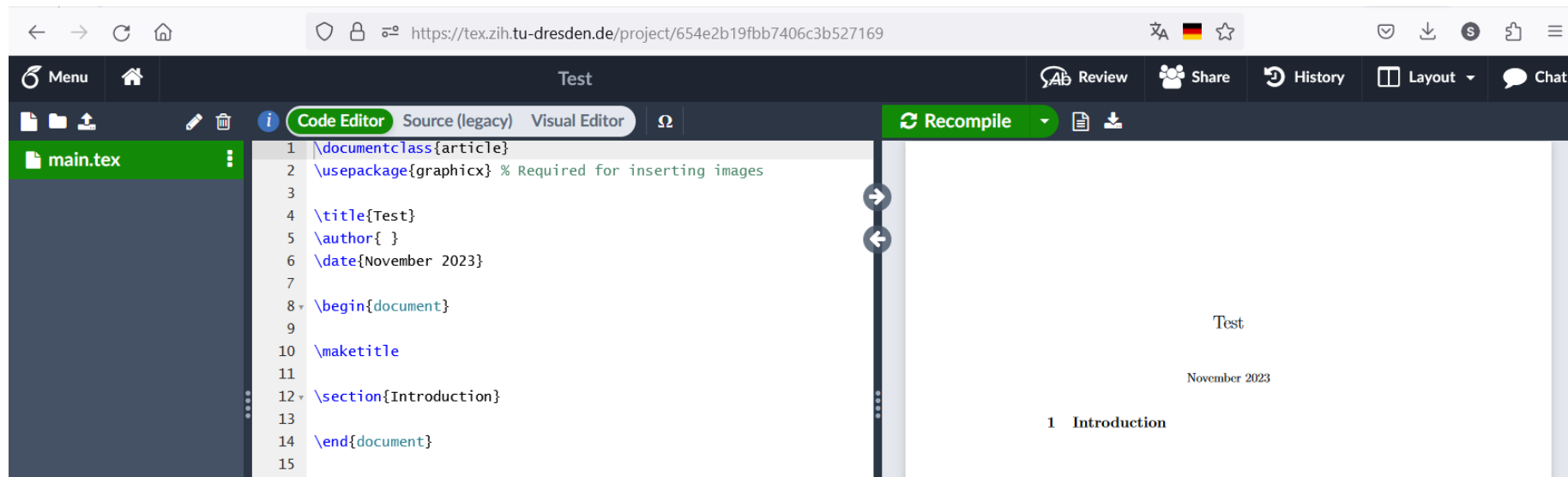
- <https://selfservice.tu-dresden.de/services/258944/>



[1]

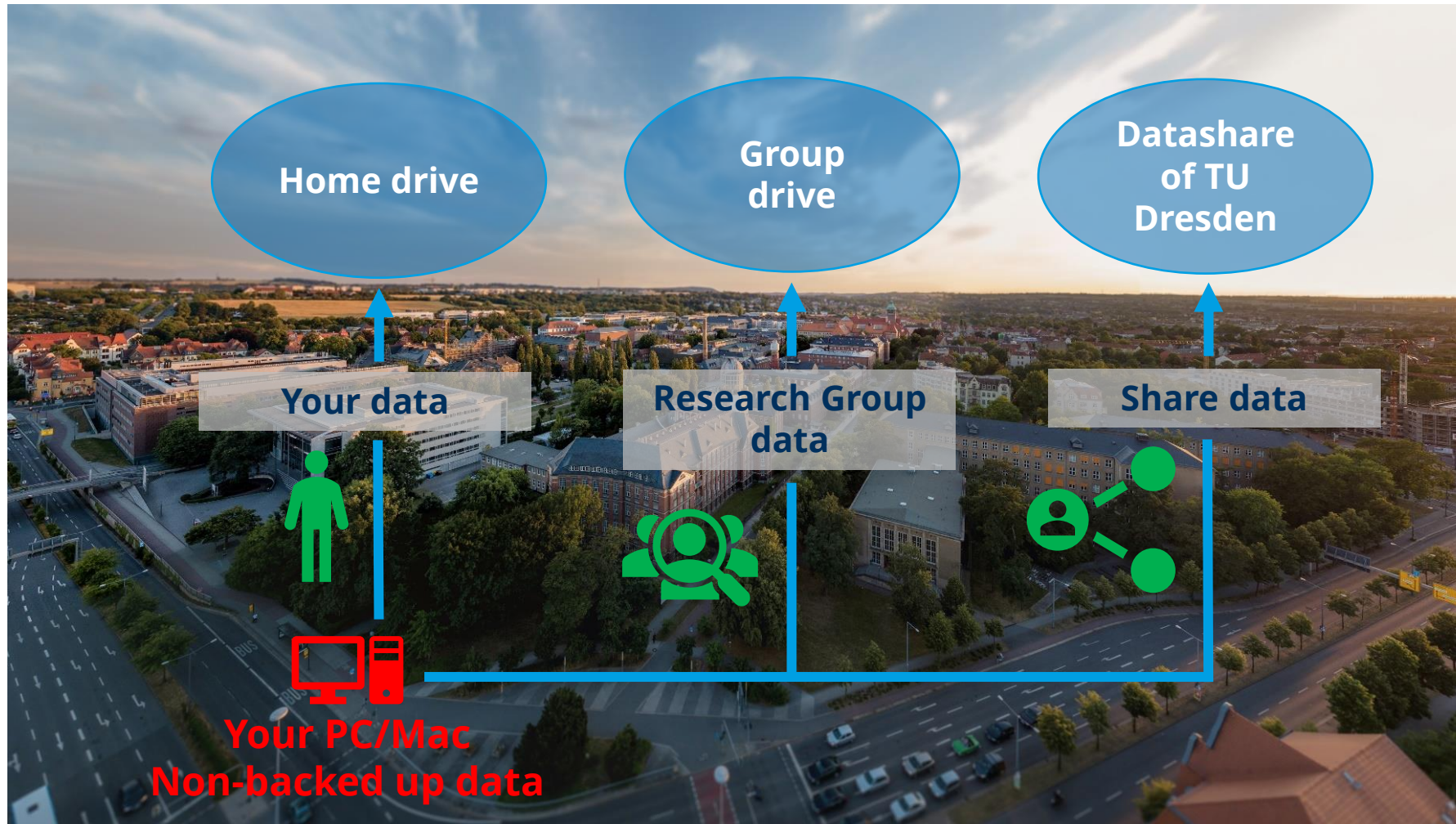
ShareLatex:

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



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

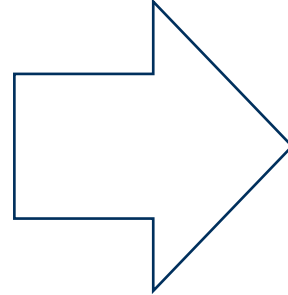
2. Data storage - Overview



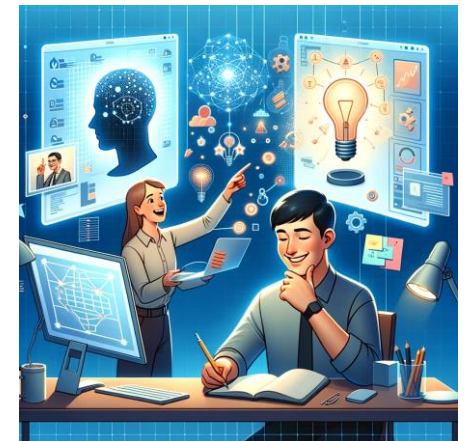
https://media-exp1.licdn.com/dms/image/C4D1BAQGhuHkHrK9Otw/company-background_10000/0?e=2159024400&v=beta&t=1cL7tUnH5XYVw6DOfbIjkskihQI2pmXPHu1d7SLXnzs

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>



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

2. Data storages – Share your data easily

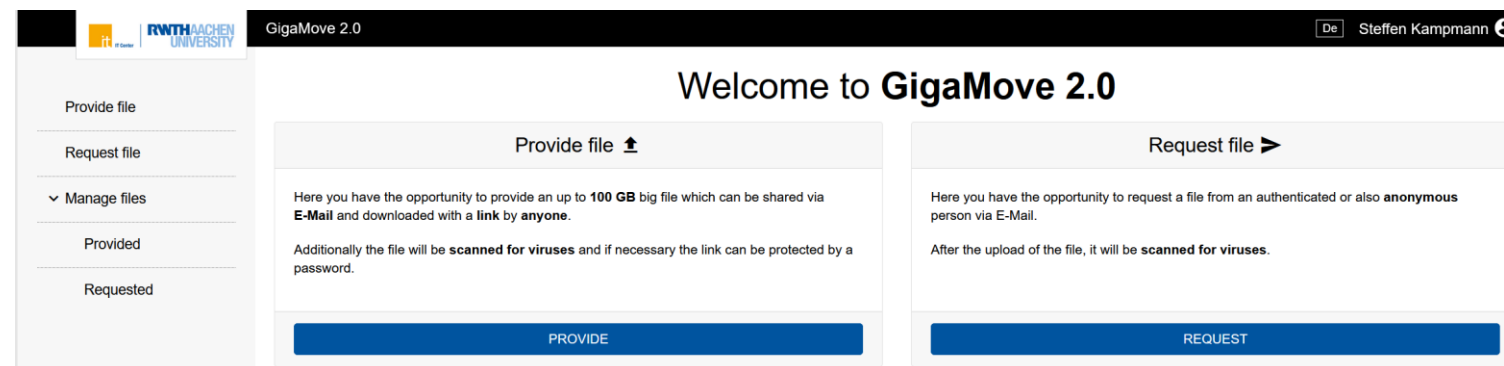
- **Datashare** based on Nextcloud environment
 - <https://datashare.tu-dresden.de/>
 - You can upload, download and share Data with internal and **external people**
 - **App** for Windows, Mac, iOS and Android
 - <https://nextcloud.com/de/install/#install-clients>
 - Installation and setup manual: <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". Below the header, there's a navigation menu on the left with options: "Provide file", "Request file", "Manage files", "Provided", and "Requested". The main content area is titled "Welcome to GigaMove 2.0" and is divided into 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. At the bottom of this column is a blue button labeled "PROVIDE". 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 of the file, it will be scanned for viruses. At the bottom of this column is a blue button labeled "REQUEST".

[2]

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

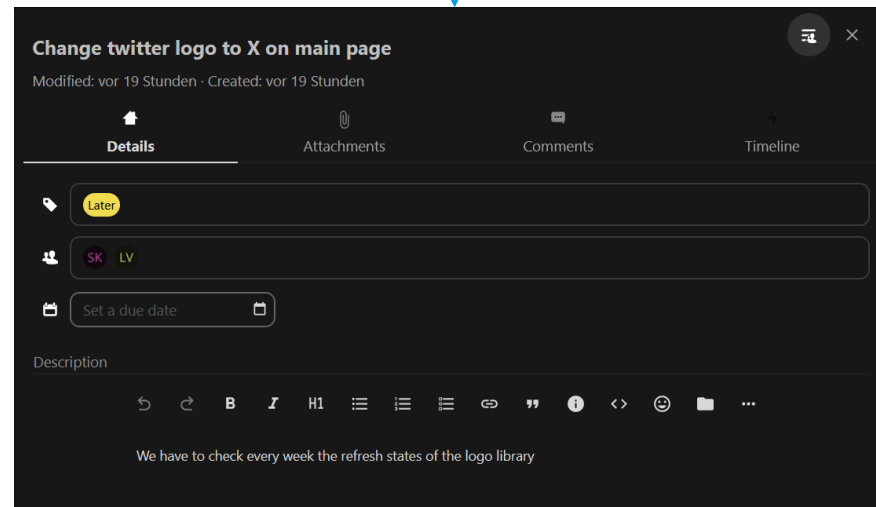
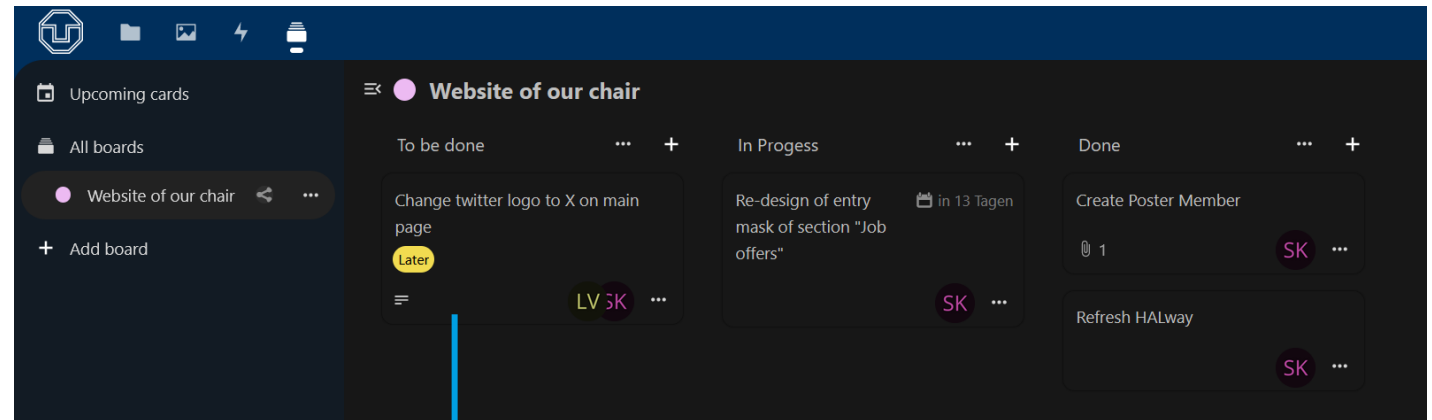
3. Software – Useful Tools

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

Available?



Gianaurelio Cuniberti <profmail88@mail.ru>
An Kampmann, Steffen

Let me know if you are free right now.

BR
Gianaurelio Cuniberti

Do you have some minutes?



Prof. Dr. Gianaurelio Cuniberti <deanprof2@mail.com>
An

Hello.
I need a quick response from you, Kindly email me back as soon as possible.

Regards,
Prof. Dr. Gianaurelio Cuniberti
Head of Department

Have you got some free time?



Gianaurelio (Giovanni) Cuniberti <maaike.bader@mail.ru>
An Kampmann, Steffen

Email me back as soon as you get this. Thank you.

Prof. Dr. Gianaurelio Cuniberti <deanprof3@r
Sa 29.07.2023 18:32

An:

Aktionselemente

I really appreciate your response, I urgently need your help to purchase some Apple iTunes Gift cards from any store around you. There are some prospects I need to send Gift items but I can't do that right now because I'm currently attending to a friend at hospital who is critically sick. Please let me know if it's possible to get them right now, so I can tell you what amount I'll need, I will surely reimburse you.

Regards

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>

eduroam

- At end of November you have to refresh your **eduroam** certificate on all your devices
- <https://tud.link/w8z7>



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

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

5. Security and Network

Protect you ZIH-Login

- Two-Factor-Authorization is now **available!**
- <https://selfservice.tu-dresden.de/services/idm/token/>



[1]

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

5. Security and Network – Mandatory Installation

Mandatory installation of the software GLPI for everyone

- **GLPI** Checks installed software of all office PC/Laptops
- <https://tud.link/f8k6>
- **Enter this inventory tag: 10000917**
- **Send an email to me** with following information:
 - Inventory numbers of your computer and monitors
 - Name of your computer
 - Your ZIH-Login name

A screenshot of a Windows installation window titled 'Setup - GLPI Agent 1.5'. The window has a light gray background and a standard Windows title bar with minimize, maximize, and close buttons. The main content area is titled 'Inventory Tag' and asks 'What Inventory Tag should be used?'. Below this, there is a text box labeled 'Inventory Tag:' containing the value '10000917'. To the right of the text box is a small icon of a box with a circular arrow. Below the text box, there is a line of text: 'Please specify the Inventory Tag, then click Next.' and another line: 'You can find additional information [here](#) .'. At the bottom right of the window, there are two buttons: 'Next' and 'Cancel'.

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!