

SAFE

Research Infrastructure



Once Upon a Time

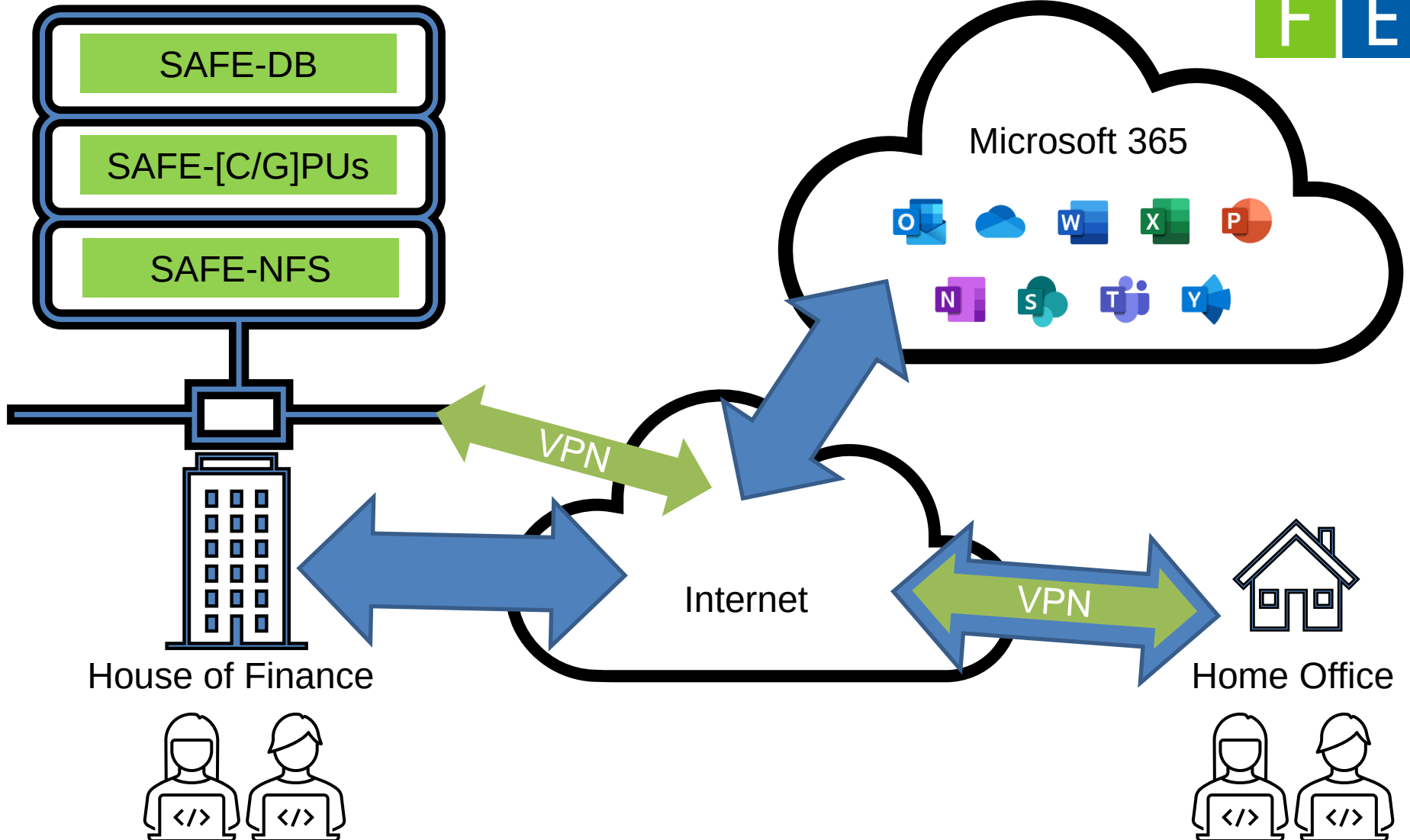


Infrastructure for Research



SAFE Datacenter

Cloudservices

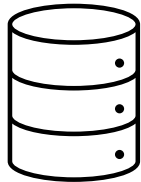


Datacenter Infrastructure



Highly Scaleable

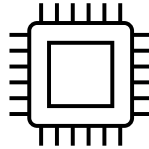
SAFE-DB



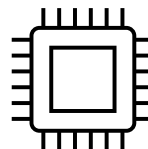
DBMS

- PostgreSQL 14

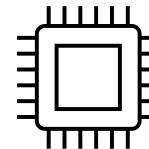
SAFE-[C/G]PUs



safe-gpu01



safe-gpu02



safe-gpu03

768 CPUs - 6.144 GB RAM

6 GPUs - 428 GB VRAM

SAFE-NFS



ZFS

- 96 TB shared
- 1 TB individual

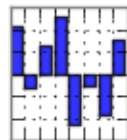
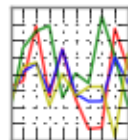
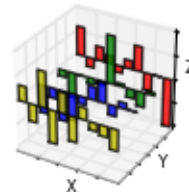
LAN: 2 x 10 Gbps

WAN: 10 Gbps



<https://compute.safe-frankfurt.de>

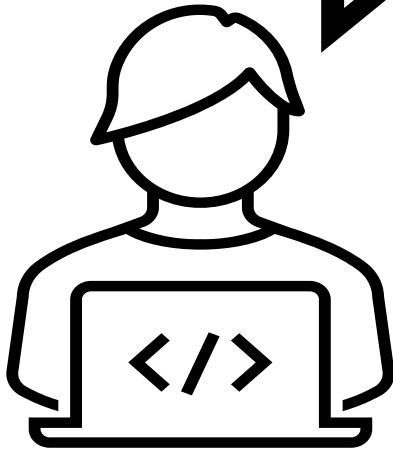
(HRZ credentials required)



So far, so good?



I would love to
keep using my
favorite IDE!



Remote Kernel Support



Spyder

- [Spyder Doc](#) "Using external kernels"



PyCharm

- [PyCharm Doc](#)
- [Youtube Video](#)

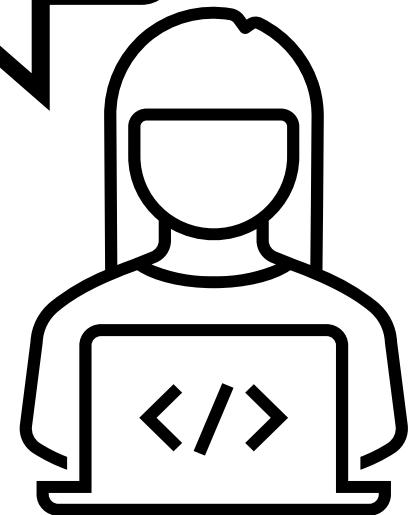


Visual Studio Code

Visual Studio Code

- [VSCoDe on the SAFE Infrastructure](#)
- [YouTube Video](#)

But how
about CLI?



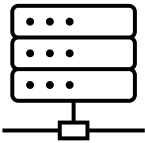
```
$ ssh <hrz_username>@safe-gpu0[1/2/3].safe-frankfurt.de
```

NFS network access



Personal drive

- On your Windows machine
 - `\\storage.safe-frankfurt.de\<hrz_username>`
- On your MacBook / iMac
 - `smb://storage.safe-frankfurt.de/<hxr_username>`
- On the compute node
 - `homedir, <hrz_user>@safe-gpu0[1/2/3]:~ $`



Shared drives

- On your Windows machine
 - `\\storage.safe-frankfurt.de\<share>`
- On your MacBook / iMac
 - `smb://storage.safe-frankfurt.de/<share>`
- On the compute node
 - `/SAFE_NAS/<share>`



**Authenticate with your HRZ credentials
using “ntsamba1\<hrz_username>”**



Want to get into contact?



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We are happy to support!



Thank you for your attention!