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SCIENTIFIC COMPUTING INFRASTRUCTURE AT FHI

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# HOME DIRECTORY

/home/myusername Of /mnt/home/myserver/myusername

Your personal folder individual to every Machine

- Config files
- Python Environments
- Local Scripts & Modules
- ~ Windows: C:\Users\myusername



# HOME DIRECTORY

/home/myusername Or /mnt/home/myserver/myusername

Your personal folder individual to every Machine

- Config files
- Python Environments
- Local Scripts & Modules
- ~ Windows: C:\Users\myusername

# DATA DIRECTORY

#### /mnt/data/myusername

Your data folder identical on every machine

- Data files
- Universal Scripts & Modules (Identical on every machine)
- ~ Windows Network Share, e.g. : R: \

### HOME and DATA directories are backed up & snapshotted

# HOME DIRECTORY

/home/myusername Or /mnt/home/myserver/myusername

Your personal folder individual to every Machine

- Config files
- Python Environments
- Local Scripts & Modules
- ~ Windows: C:\Users\myusername

# DATA DIRECTORY

#### /mnt/data/myusername

Your data folder identical on every machine

- Data files
- Universal Scripts & Modules (Identical on every machine)
- ~ Windows Network Share, e.g. : R: \

### HOME and DATA directories are backed up & snapshotted

# LOCAL DIRECTORY

#### /mnt/local/myusername

Your local NVME based scratch folder

- For anything that needs fast IO
- Temporary files during computations
- For remote File Caches
  - ~ Windows, e.g.: C:\Local\myusername



# HOME DIRECTORY

/home/myusername Or /mnt/home/myserver/myusername

Your personal folder individual to every Machine

- Config files
- Python Environments
- Local Scripts & Modules
- ~ Windows: C:\Users\myusername

# DATA DIRECTORY

#### /mnt/data/myusername

Your data folder identical on every machine

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- Universal Scripts & Modules (Identical on every machine)
- ~ Windows Network Share, e.g. : R: \

### HOME and DATA directories are backed up & snapshotted

#### BERLIN, GERMANY | 26<sup>TH</sup> MARCH 2025

# LOCAL DIRECTORY

#### /mnt/local/myusername

Your local NVME based scratch folder

- For anything that needs fast IO
- Temporary files during computations
- For remote File Caches
  - ~ Windows, e.g.: C:\Local\myusername

# EXT DIRECTORY

/mnt/ext/myusername Or /mnt/ext/someproject

Your extension for huge amounts of data

- Large project / user based file archives
- Automatic Upload from FHI S3 possible

~ Group drives on Windows. Only available on request

# LOCAL directories are not backed up snapshotted



# HOME DIRECTORY

/home/myusername Or /mnt/home/myserver/myusername

Your personal folder individual to every Machine

- Config files
- Python Environments
- Local Scripts & Modules
- ~ Windows: C:\Users\myusername

# DATA DIRECTORY

/mnt/data/myusername

Your data folder identical on every machine

- Data files
- Universal Scripts & Modules (Identical on every machine)
- ~ Windows Network Share, e.g. : R: \

### HOME and DATA directories are backed up & snapshotted

# ACCESS

via SMB: **HOME**, **DATA**, **EXT** via SFTP: *Everything* 

Only from FHI Network / VPN

# LOCAL DIRECTORY

#### /mnt/local/myusername

Your local NVME based scratch folder

- For anything that needs fast IO
- Temporary files during computations
- For remote File Caches
  - ~ Windows, e.g.: C:\Local\myusername

# EXT DIRECTORY

/mnt/ext/myusername Or /mnt/ext/someproject

Your extension for huge amounts of data

- Large project / user based file archives
- Automatic Upload from FHI S3 possible

~ Group drives on Windows. Only available on request

LOCAL directories are not backed up snapshotted





### WINDOWS

### **TEMPORARY ACCESS**

#### Recommended if only temporary in the FHI Network

- Enter \\storage-01.compute.fhi.mpg.de\MPCDF-FHI-HOME into your **Windows Explorer** address bar.
  - MPCDF-FHI-DATA for data
  - MPCDF-FHI-EXT for ext

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### WINDOWS

### **TEMPORARY ACCESS**

#### Recommended if only temporary in the FHI Network

- Enter \\storage-01.compute.fhi.mpg.de\MPCDF-FHI-HOME into your **Windows Explorer** address bar.
  - MPCDF-FHI-DATA for data
  - MPCDF-FHI-EXT for ext
- Log in using the credentials:
  - username: WORKGROUP\myusername
  - password: mypassword

Windows Security	
Enter network credentials	
Enter your credentials to connect to: storage-01.compute.fhi.mpg.de	
User name	
WORKGRPOUP\myusername	
Password	
•••••	
Domain: WORKGRPOUP	
Remember my credentials	
The username or password is incorrect.	
More choices	
Use a different account	
OK	Cancel



### WINDOWS

### **TEMPORARY ACCESS**

#### Recommended if only temporary in the FHI Network

- Enter \\storage-01.compute.fhi.mpg.de\MPCDF-FHI-HOME into your **Windows Explorer** address bar.
  - MPCDF-FHI-DATA for data
  - MPCDF-FHI-EXT for ext
- Log in using the credentials:
  - username: WORKGROUP\myusername
  - password: mypassword

You can now browse your **home** / **data** / **ext** directories and use them as normal.





### WINDOWS

### **TEMPORARY ACCESS**

Recommended if only temporary in the FHI Network

### PERMANENT ACCESS

#### Recommended if connected via LAN

You can also assign a drive letter (similar to FHI R: 1):

Right Click Network > Map network drive





## WINDOWS

### **TEMPORARY ACCESS**

Recommended if only temporary in the FHI Network

### PERMANENT ACCESS

#### Recommended if connected via LAN

You can also assign a drive letter (similar to FHI R: \):

- Right Click Network > Map network drive
- Select a drive letter, e.g. M: \
- Enter \\storage-01.compute.fhi.mpg.de\MPCDF-FHI-HOME into your **Windows Explorer** address bar.
  - MPCDF-FHI-DATA for data
  - MPCDF-FHI-EXT for ext

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D	Irive: M: older: \\storage-01.compute.fhi.mpg.de\MPCDF-FHI-HO V Browse Example: \\server\share Reconnect at sign-in Connect using different credentials	
	Connect to a Web site that you can use to store your documents and pictures.           Finish         Cancel	

4



### WINDOWS

### **TEMPORARY ACCESS**

Recommended if only temporary in the FHI Network

### PERMANENT ACCESS

#### Recommended if connected via LAN

You can also assign a drive letter (similar to FHI R: 1):

- Right Click Network > Map network drive
- Select a drive letter, e.g. M: \
- Enter \\storage-01.compute.fhi.mpg.de\MPCDF-FHI-HOME into your Windows Explorer address bar.
  - MPCDF-FHI-DATA for data
  - MPCDF-FHI-EXT for ext
- Log in using the credentials:
  - username: WORKGROUP\myusername
  - password: mypassword





# LINUX / UNIX - FILE EXPLORER

Some File Explorers, e.g. MacOS Finder or Ubuntu Nautilus, require to open a Connect to server menu

- Enter smb://storage-01.compute.fhi.mpg.de/MPCDF-FHI-HOME into the address bar.
  - MPCDF-FHI-DATA for data
  - MPCDF-FHI-EXT for ext
- Log in using the credentials:
  - username: WORKGROUP\myusername
  - password: mypassword





# LINUX / UNIX - TERMINAL

Mount via CIFS. Similar commands for MPCDF-FHI-DATA or MPCDF-FHI-EXT!

#### Linux - FSTAB \*

• add an entry to the /etc/fstab file:

//storage-01.compute.fhi.mpg.de/MPCDF-FHI-HOME /some/local/path cifs -o
username=<MYUSERNAME>,domain=WORKGROUP noauto,user 0 0

#### and mount it via mount /some/local/path.

### Linux - CLI \*

sudo mount -t cifs -o username=<MYUSERNAME>,uid=`id -u`,gid=`id -g` //storage-01.compute.fhi.mpg.de/MPCDF-FHI-HOME /some/local/path

#### MacOS - CLI \*

mount -t smbfs //WORKGROUP;<MYUSERNAME>@storage-01.compute.fhi.mpg.de/MPCDF-FHI-HOME /some/local/path

\*Replace <MYUSERNAME> with your username!



#### **Transfer Files between two locations**

- Usable for any computer that is reachable via SSH. (e.g. STORAGE-01, ANALYSIS-0X, JUPYTERHUB-01, ...)
- Transfer / manage files (Cut, Copy, Paste, Delete)
- Synchronize Files & Folders

# WINDOWS WINSCP

Open WinSCP. Click New Tab -> New Site



#### **Transfer Files between two locations**

- Usable for any computer that is reachable via SSH. (e.g. STORAGE-01, ANALYSIS-0X, JUPYTERHUB-01, ...)
- Transfer / manage files (Cut, Copy, Paste, Delete)
- Synchronize Files & Folders

# WINDOWS WINSCP

Open WinSCP. Click New Tab -> New Site

- Choose: File protocol: SFTP
- Hostname: storage-01.compute.fhi.mpg.de
- Port: 22
- User name: your-compute-username
- Leave Password empty

Click Save, give it a descriptive name and click OK.

#### Confirm to trust the host (1st time only).

Enter your password: yourpassword.

Desktop - WinSCP × Left Mark Files Commands Tabs Options Right Help 🖶 🚰 🔛 Synchronizer 🗩 🚚 🦉 🙆 🖓 Queue 🔹 Transfer Settings Default - 2 -📁 Desktop – Desktop 🖳 🏴 New Tab 🚽 💶 De 🗸 🚰 • 🝸 • 🐳 + + + 🔁 🗽 🍙 🖓 🔂 🔚 🔳 De • 🚰 • 🝸 • | + + + + 1 🛅 🗟 🏫 🖓 -😰 Copy - 📝 Edit - 🗙 🦂 🕞 Properties - » 🕂 » 📳 Copy - 📝 Edit - 🗙 🛃 🕞 Properties - » 🕂 » C:\Users\beinlichlocal\Desktop\ C:\Users\beinlichlocal\Desktop\ Nam 强 Login × t .. Session 🖳 New Site Last File protocol: FHI Compute SETP Jupyterhub-01 Storage-01 Port number: Host name FHI S3 storage-01.compute.fhi.mpg.de 22 2 FHI-S3-beinlich.data EHI-S3-beinlich.test User name Password MPCDF vourusername VIPER Advanced... Save Login Tools Manage -Close Help 1 hidden 0 B of 0 B in 0 of 2 0 B of 1 B in 0 of 1 1 hidden



### WINDOWS WINSCP

### BROWSE LOCAL AND REMOTE FILES

Local Files: Left Column Remote Files: Right Column

- HOME directories
   /mnt/home/your-server/your-username
- DATA directories /mnt/data/your-username
- EXT directories
   /mnt/ext/your-username

#### e.g. /mnt/data/beinlich

PS: WinSCP displays the underlying path: /mnt/volumes/data-02/data/beinlich

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				db	30.07.2024	15:16:43 rwxr-xr-x
				dev	19.02.2025	09:59:27 rwxr-xr-x
				etc	24.02.2025	17:13:07 rwxr-xr-x
				home	30.01.2025	09:42:43 rwxr-xr-x
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				proc	07.01.2025	10:14:26 r-xr-xr-x
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				sbin	02.08.2023	06:39:46 rwxrwxrwx
				srv	02.08.2023	06:39:53 rwxr-xr-x
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				tmp	28.02.2025	09:07:54 rwxrwxrwt
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## WINDOWS WINSCP

### BROWSE LOCAL AND REMOTE FILES

Local Files: Left Column Remote Files: Right Column

- HOME directories
   /mnt/home/your-server/your-username
- DATA directories /mnt/data/your-username
- EXT directories
   /mnt/ext/your-username

#### e.g. /mnt/data/beinlich

PS: WinSCP displays the underlying path: /mnt/volumes/data-02/data/beinlich

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# WINDOWS WINSCP

### BROWSE LOCAL AND REMOTE FILES

Local Files: Left Column Remote Files: Right Column

- HOME directories
   /mnt/home/your-server/your-username
- DATA directories /mnt/data/your-username
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   /mnt/ext/your-username

#### e.g. /mnt/data/beinlich

PS: WinSCP displays the underlying path: /mnt/volumes/data-02/data/beinlich

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### WINDOWS WINSCP

### BROWSE LOCAL AND REMOTE FILES

Local Files: Left Column Remote Files: Right Column

### COPY FILES

- Drag & Drop
- Copy Paste

Context menu Right Click or Ctrl+C + Ctrl+V

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### WINDOWS WINSCP

### BROWSE LOCAL AND REMOTE FILES

Local Files: Left Column Remote Files: Right Column

### COPY FILES

- Drag & Drop
- Copy Paste

Context menu Right Click or Ctrl+C + Ctrl+V

### SYNCHRONIZE FILES

- Select Commands > Synchronize
  - Choose direction:
    - both (bi.-directional),
    - to remote or to local)
  - Check Synchronize and Preview Changes
  - Click ок
- Check the Operations and click ок.

FRITZ-HABER-INSTITUT | SIMEON BEINLICH

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# LINUX - FILE EXPLORER

Some File Explorers, e.g. Ubuntu Nautilus, require to open a Connect to server menu

- Enter sftp://storage-01.compute.fhi.mpg.de/ into the address bar.
- Log in using the credentials:
  - username: myusername
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#### You can then browse your files:

• HOME directories

/mnt/home/your-server/your-username

DATA directories

/mnt/data/your-username

EXT directories
 /mnt/ext/your-username

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🗅 qemu-share			
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③ Network			
📑 FHI			
FHI-debproxy			
MPCDE-EHI-HOME	4 Folders, 1 File (3.4 MiB)	Zoom:	9.1 TiB free



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FHI		
FHI-debproxy		
	4 Folders, 1 File (3,4 MiB) Zoom:	9.1 TiB free

MacOS Finder does not provide SFTP connections, use a third party SFTP client to connect instead.



# LINUX, MACOS, WINDOWS: FREE-FILE-SYNC

FreeFileSync is an easy to use Open Source File Synchronization Program, that is supported on all Operating Systems.



It supports bi- and one-directional transfers, mirrors, versioning, filtering and more.

# FURTHER TOPICS & LINKS



### MORE TRAINING MATERIAL

Visit root.compute.fhi.mpg.de/training

# PPB WIKI | HPC

General Information.

### FHI GITLAB | HPC DOCUMENTATION

Jupyterhub Wiki | Virtual Desktop Wiki | Storage Wiki

Questions, issues, needing help? Please mail: beinlich@fhi.mpg.de or call: +49 30 8431 5270