

## Access the KI-Lab GPUs remotely

- There are six GPU machines available which you can connect to via RDP with your IZ-account (you have to be in the HS network for that you need VPN). The addresses are:

iwi-lfm-rdp-01.hs-karlsruhe.de  
iwi-lfm-rdp-02.hs-karlsruhe.de  
and so on ...

- Machines can only be used exclusively by one team. Every team will get an ID from 01 to 06, and will use the machine with the respective address from above.
- Once logged in, you have to set-up your environment. Before doing that you need proxy-free access to the Internet. Check the PDF „LFM\_Labor\_Information.pdf“ under the folder „Desktop“, which tells you how to get open internet access.

- Once done, open a console using the xTerm app and initialize conda with:

```
/opt/miniconda3/bin/conda init bash
```

- Restart xTerm to make the changes effective and create a new conda env:

```
conda create --name ki-lab python=3.6.9
```

- Activate this environment and install packages:

```
conda activate ki-lab  
conda install pytorch  
conda install torchvision  
conda install jupyter  
pip3 install tensorboard
```

- You can start now Jupyter from this environment and start working:

```
jupyter notebook
```

- You can also tunnel to the machine and execute the Jupyter notebook UI on your local machine. Details can be found [here](#).
- Once you are done with your session, change the network connection back to „Intranet“ and logout.