



Science and
Technology
Facilities Council

Scientific Computing



Demonstration of tools used for the course

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Tools

1 HackMD

Realtime collaborative platform to interact with trainers

<https://hackmd.io/@SIRF-CIL-Fully3D/>

2 SCD Jupyterlab

CIL, SIRF, notebooks, compute resources and data will be available via a web interface to the participants.

3 Oracle VirtualBox, Docker

4 Jupyter notebook

an open-source web application that allows you to create and share documents that contain live code, equations, visualizations and narrative text.



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This is

Image © STFC Alan Ford



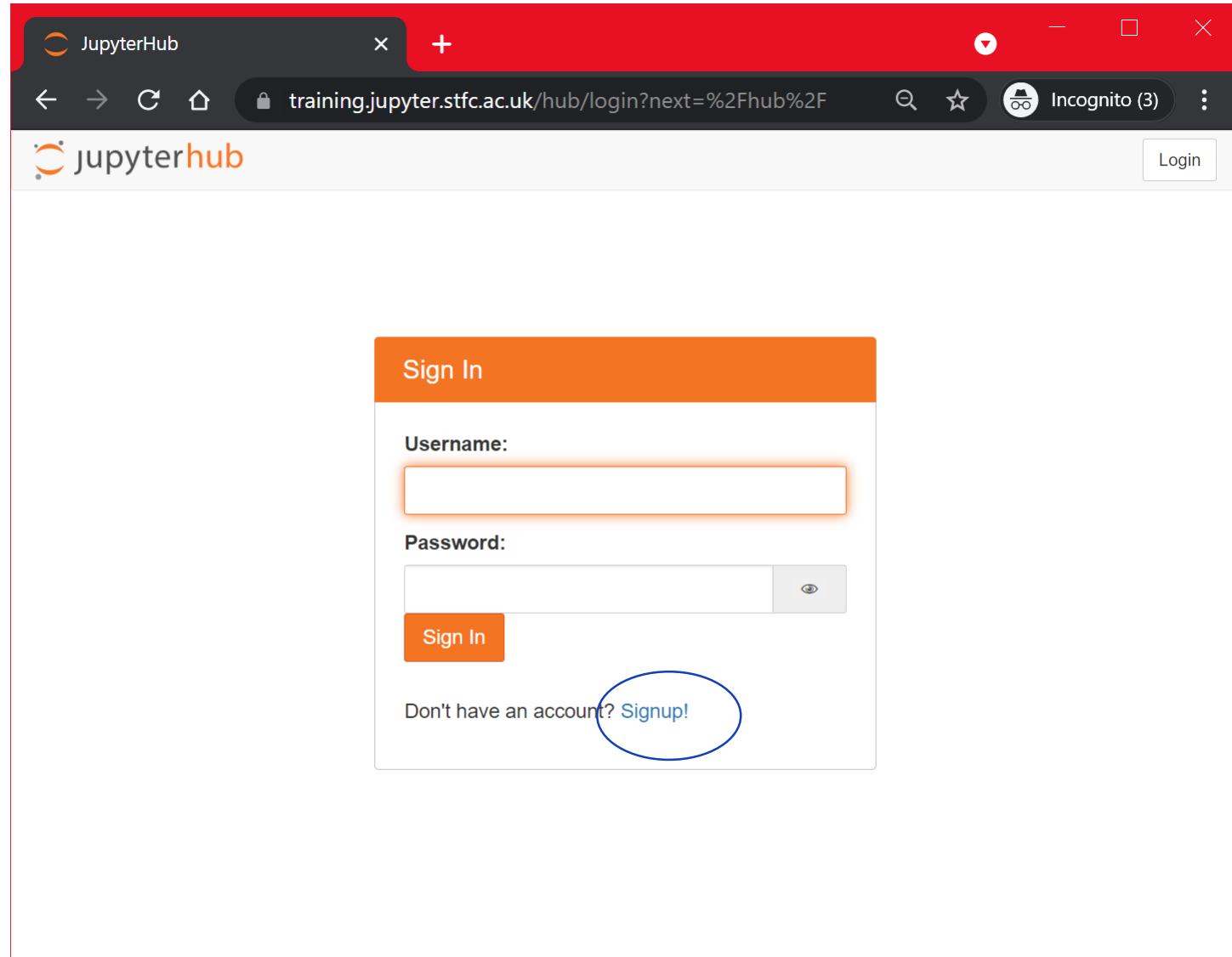
SCD Jupyterlab

<https://training.jupyter.stfc.ac.uk/>

Pre approved user names:

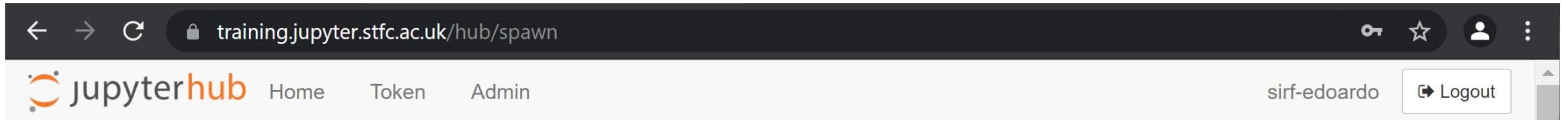
sirfcil-`<number>`

Create your own password



SCD Jupyterlab

<https://training.jupyter.stfc.ac.uk/>



Server Options

- Training School for SIRF and CIL GPU**
For small jobs and prototyping: 10 CPUs, 60GB RAM and GPU. For Training School for SIRF and CIL
- Training School for SIRF and CIL no GPU**
For small jobs and prototyping: 12 CPUs, 60GB RAM and no GPU. For Training School for SIRF and CIL

Oracle VirtualBox

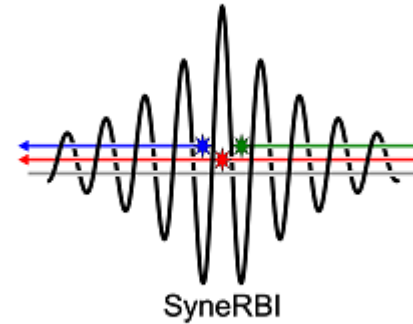
<https://www.ccpsynerbi.ac.uk/downloads>

<https://doi.org/10.5281/zenodo.4783006>

<https://www.virtualbox.org/wiki/Downloads>

VirtualBox Guest Additions

No GPU access



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Docker

<https://github.com/SyneRBI/SIRF-SuperBuild/blob/master/docker/README.md>

Install docker CE and docker-compose

git clone <https://github.com/SyneRBI/SIRF-SuperBuild.git>

docker pull synerbi/sirf:service or
docker pull synerbi/sirf:service-gpu

./sirf-compose-server up -d sirf or  <http://127.0.0.1:8888>
./sirf-compose-server-gpu up -d sirf



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Getting Started with the course

Start the engines and getting up to
speed with Jupyter notebooks in less
than 5 mins