JupyterHub for DL

Student's Guide 2020

What's this?

Student's Laptop
(thin client)

Web Portal

GPU Workstation
(served by GPU server)
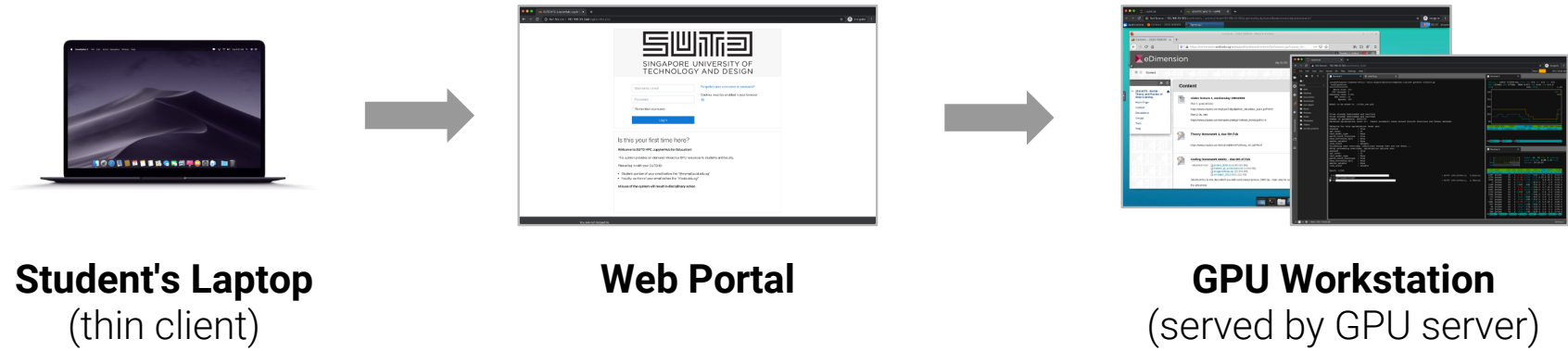
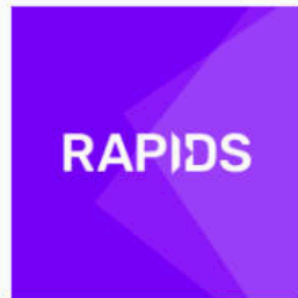**Web-based system for interactive deep learning development**

What you get

1. 2 vCPU (Skylake)

2. 13GB usable system RAM

3. **V100 GPU with 8GB VRAM**

4. 50GB home storage

5. Scratch storage (mounted at `~/scratch`)

6. Shared dataset storage (mounted at `~/datasets`)
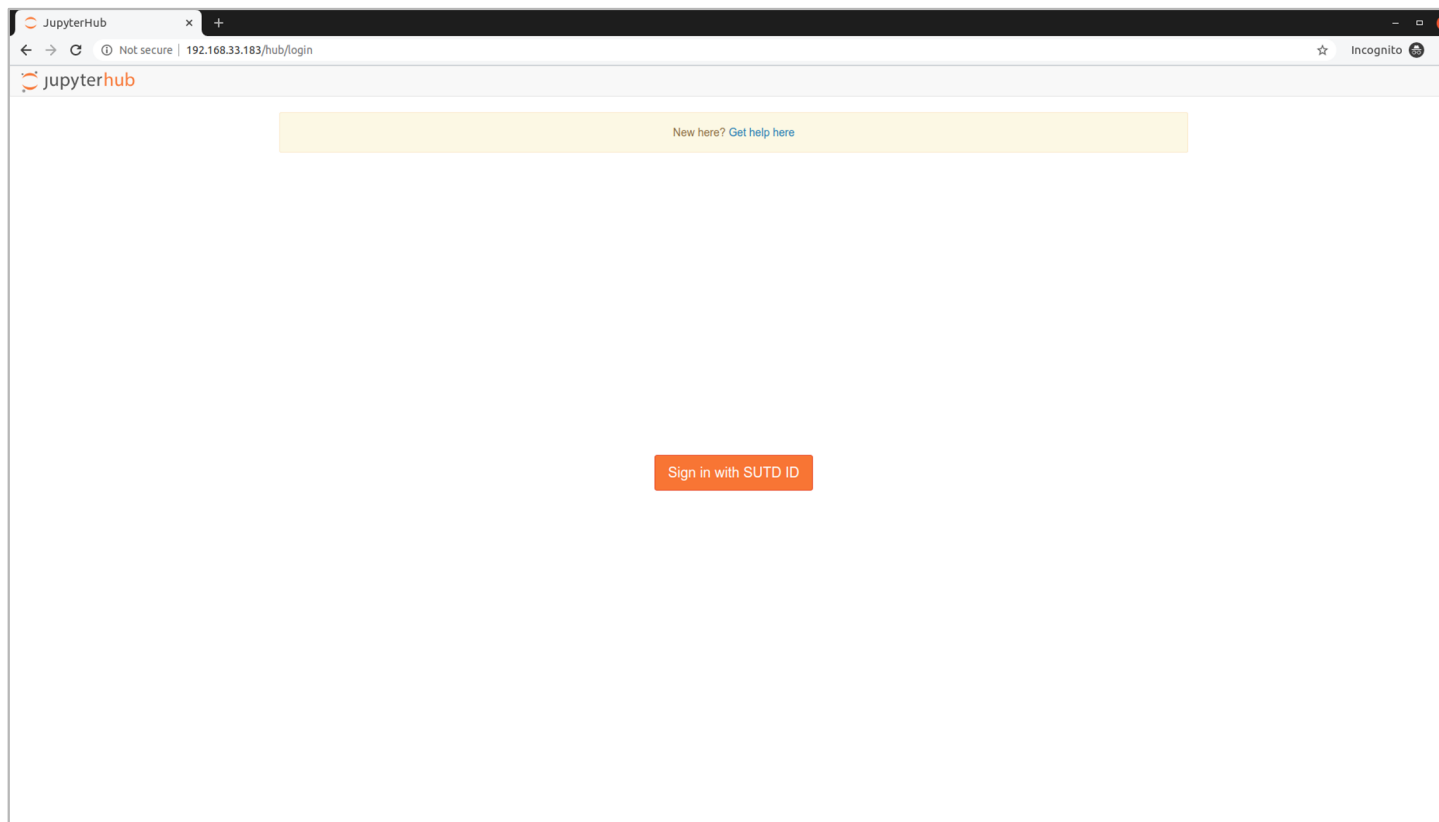
Supported tools

Preconfigured Tools and Frameworks

RAPIDS · fast.ai · K Keras · DASK · dmlc XGBoost · HOROVOD

NVIDIA **CUDA** + **CUDNN**

Logging In

1. Go to **http://192.168.33.183/** via SUTD Network (or VPN)

Logging In

2. Log in with your student ID (**100XXXX**) and password **dlcourse2020**

Logging In

3. First time login: you will be prompted to change password

Logging In

4. System will spin up an instance for you on the GPU servers

Using the System

Done using?
Terminate via Control Panel!

Create /
Upload files

Your
files

Access
Desktop GUI

Using the System

To access JupyterLab:
Change **/tree** to **/lab**
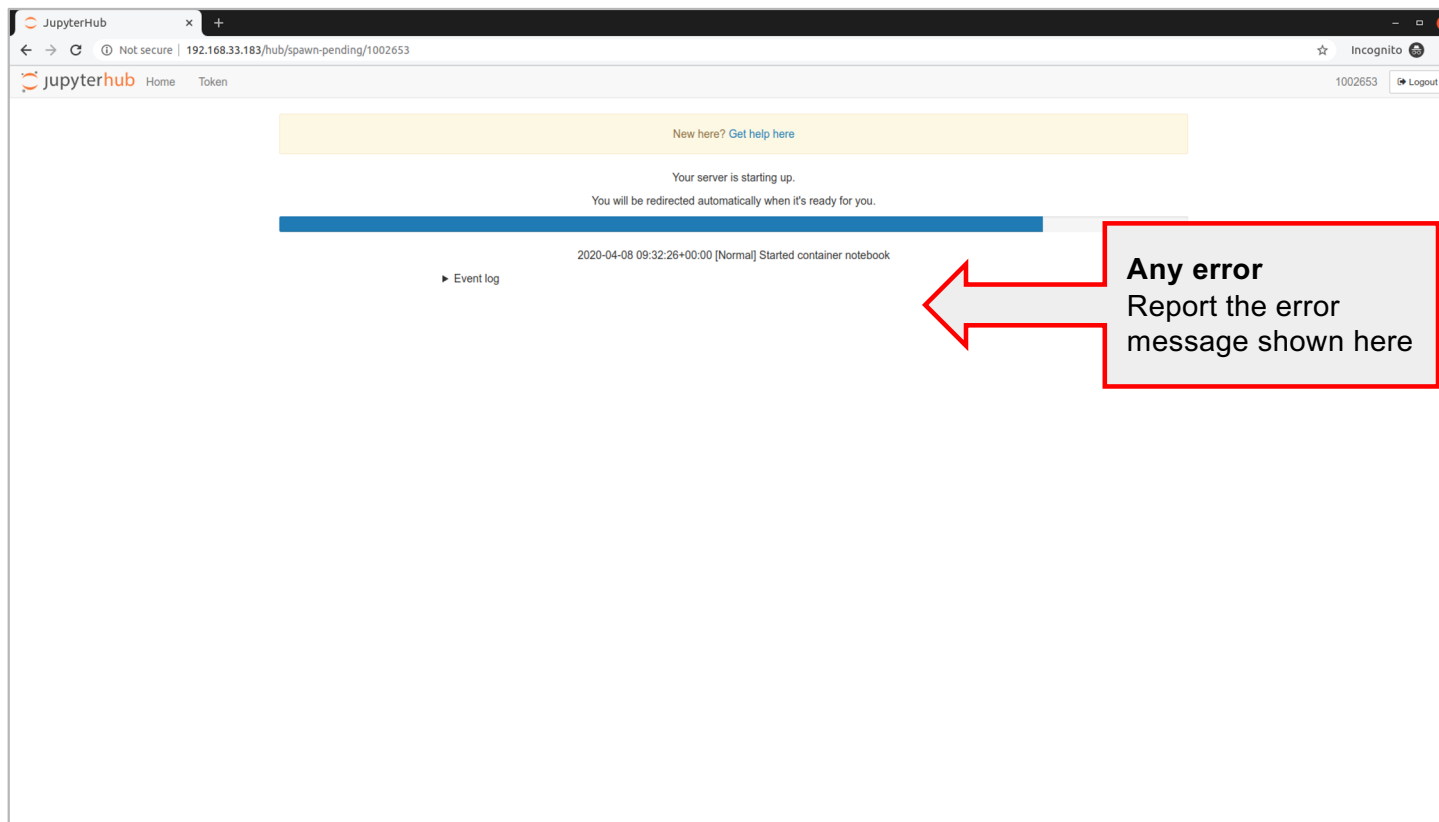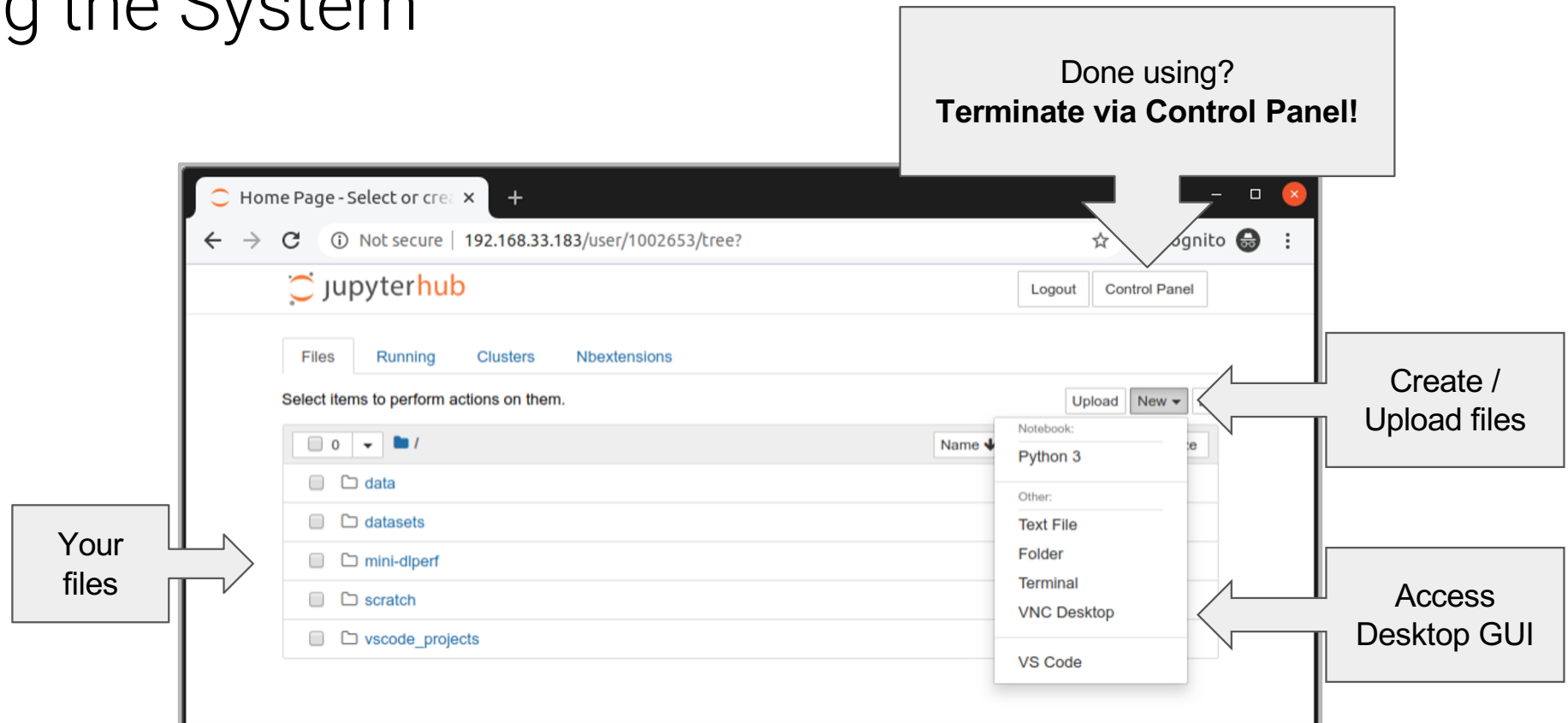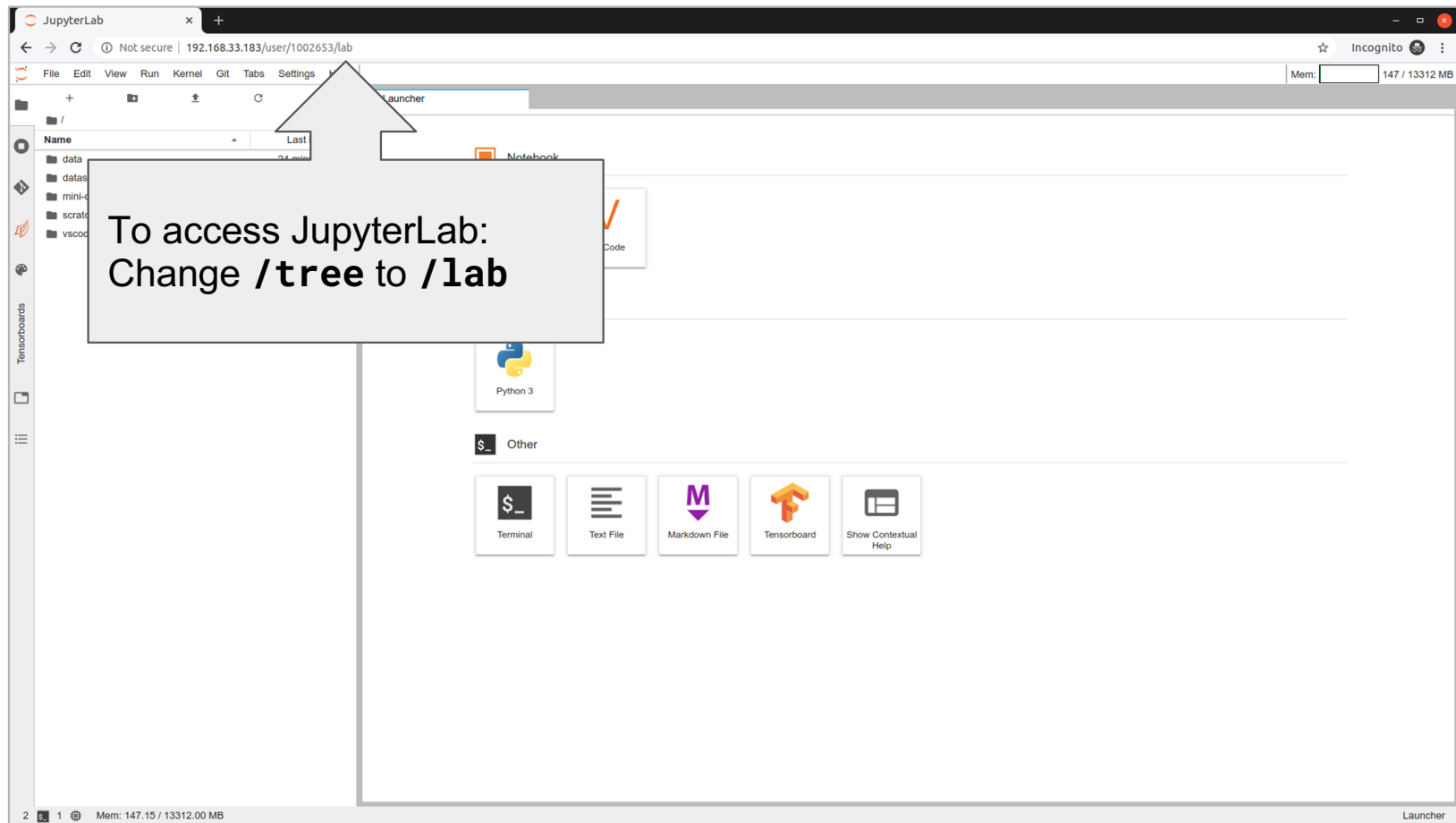
Usage Guidelines

- Most packages (eg. PyTorch, scikit-learn, OpenCV etc.) are already pre-installed and will use the GPU.

- Please terminate your instance after using.

  - **Idle instances (no user interaction) will be terminated after 1 hour**

- Use scratch storage for large file storage (e.g. weights, custom datasets)

- Watch your system RAM usage…

- System files are not persistent. If you modify system files, they will be reset. Only your home/scratch folders are preserved across sessions.

- **Any misuse will result in disciplinary action.**
  E.g. mine bitcoin, attempts to break the system etc

Helpdesk

All questions, technical issues etc:

Ask on Telegram group (https://t.me/dl2020helpdesk)

Questions asked elsewhere will not be entertained.