Installing JupyterLab

As hadoop:

```
pip install jupyterlab
```

```
jupyter notebook --generate-config
```

If this command does not work, sign out of your session (type exit until you are back on your local machine). Sign in again and the above command should work.

```
jupyter notebook password
```

Copy the hashed password starting from argon to the end.

```
cat /home/hadoop/.jupyter/jupyter_notebook_config.json
```

Configs

```
nano /home/hadoop/.jupyter/jupyter_notebook_config.py
```

Change the password settings from # c.NotebookApp.password = '' to your personal password:

```
c.NotebookApp.password =
'argon2:$argon2id$v=19$m=10240,t=10,p=...YOUR_HASH...'
```

JupyterLab can't be accessed remotely by default. Let's change that by setting the listen ip from # c.NotebookApp.ip = 'localhost' to:

```
c.NotebookApp.ip = '*'
```

and the default port # c.NotebookApp.port = 8888 to:

```
c.NotebookApp.port = 8888
```

In addition, we don't want to auto launch a browser. Change `# c.NotebookApp.open_browser = True` to:

```
c.NotebookApp.open_browser = False
```

start the service with:

```
jupyter lab
```

And test the service in your web-browser with the url `http://bdlc-XX.el.eee.intern:8888/lab`

NodeJS

`nodejs` is missing, as we can see in the logs:

```
[W 2022-03-03 10:49:14.561 LabApp] Could not determine jupyterlab build
status without nodejs
```

Let's install it, as user `student`, with:

```
sudo apt install nodejs
```

Running JupyterLab in the background

Switch back to user `hadoop`.

```
nohup jupyter lab > error.log &
```

To stop it, we need to know the `pid`

```
ps -ef | grep jupyter
```

e.g output like:

```
hadoop    152556  152476  6 11:06 pts/0    00:00:01 /usr/bin/python3
/home/hadoop/.local/bin/jupyter-lab
```

Then kill the process with:

```
kill 152556
```