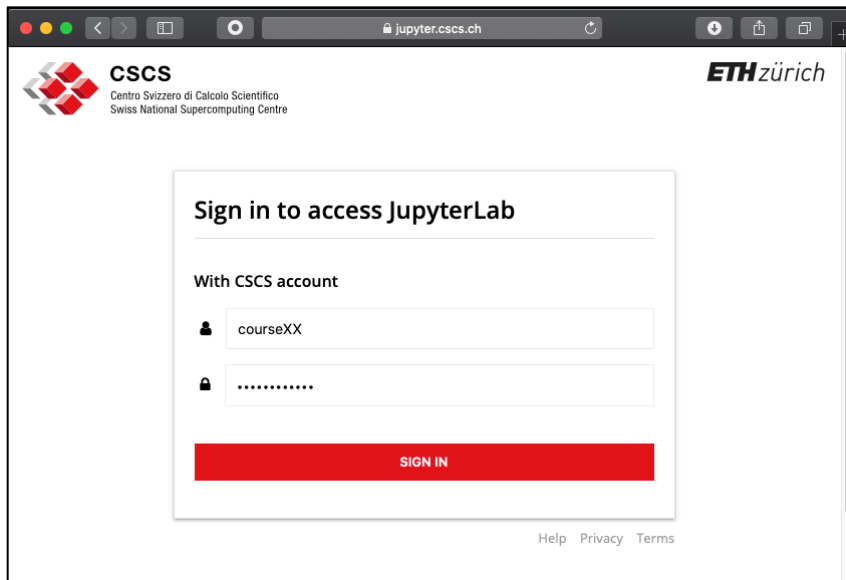


# High Performance for Weather and Climate (HPC4WC)

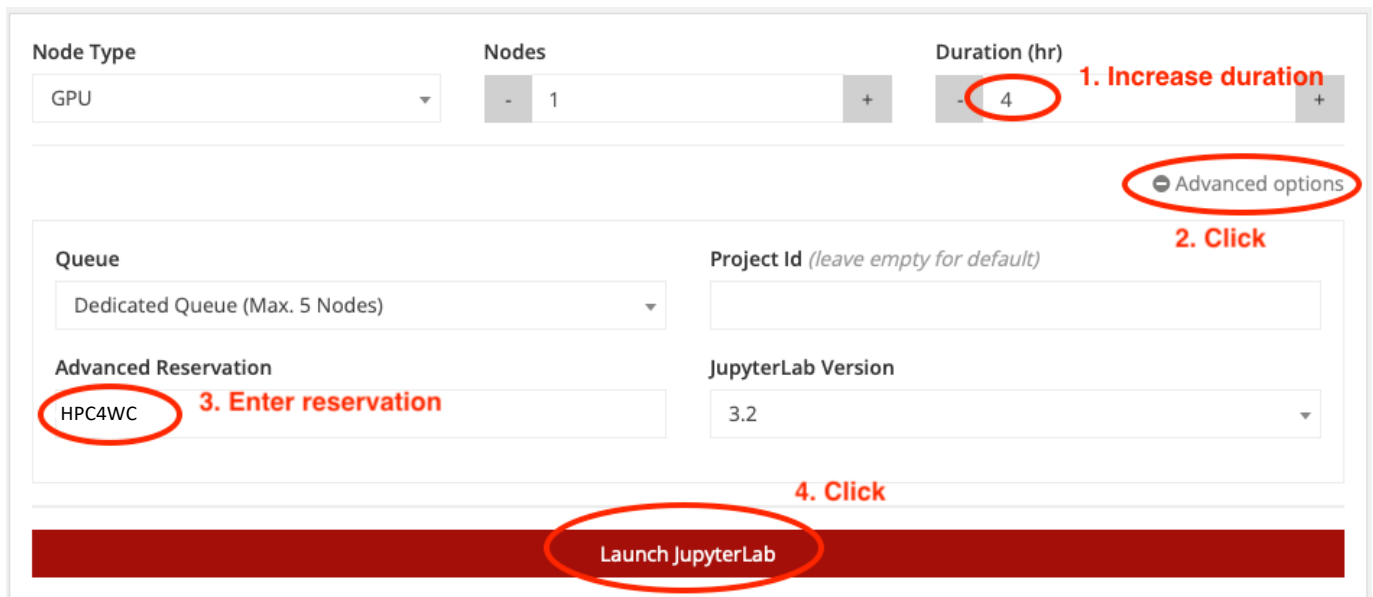
## Getting Started Guide

1. Get a password
2. Open a browser
3. Go to <https://jupyter-santis.cscs.ch>
4. Login with your username and password



The screenshot shows a web browser window with the URL `jupyter.cscs.ch`. The page features the CSCS logo (Centro Svizzero di Calcolo Scientifico / Swiss National Supercomputing Centre) and the ETH zürich logo. A central box titled "Sign in to access JupyterLab" contains a login form. The form has a section "With CSCS account" with a username field (containing "courseXX") and a password field (masked with dots). A red "SIGN IN" button is at the bottom of the form. Below the button are links for "Help", "Privacy", and "Terms".

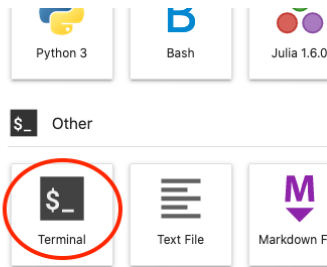
5. Configure settings (see below) and click on "Launch JupyterLab"



The screenshot shows the JupyterLab configuration interface. At the top, there are three main settings: "Node Type" (set to "GPU"), "Nodes" (set to "1"), and "Duration (hr)" (set to "4"). The "Duration (hr)" field is circled in red with the annotation "1. Increase duration". Below these, there is a section for "Advanced options" which is also circled in red with the annotation "2. Click". This section contains several fields: "Queue" (set to "Dedicated Queue (Max. 5 Nodes)"), "Project Id" (with the instruction "leave empty for default"), "Advanced Reservation" (set to "HPC4WC", circled in red with the annotation "3. Enter reservation"), and "JupyterLab Version" (set to "3.2"). At the bottom, there is a large red button labeled "Launch JupyterLab", which is circled in red with the annotation "4. Click".

**NOTE: The instructions continue on next page!**

6. Wait until JupyterHub has started up.
7. In the Launcher window on the right, click on Other → “Terminal”. A terminal prompt should appear.



8. Type the following commands to change your password. Make sure you don't forget your new password. We have no way of recovering it!

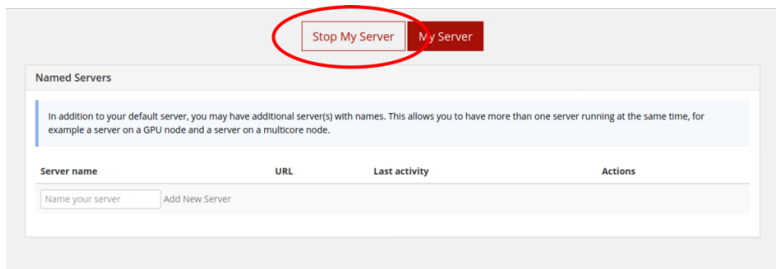
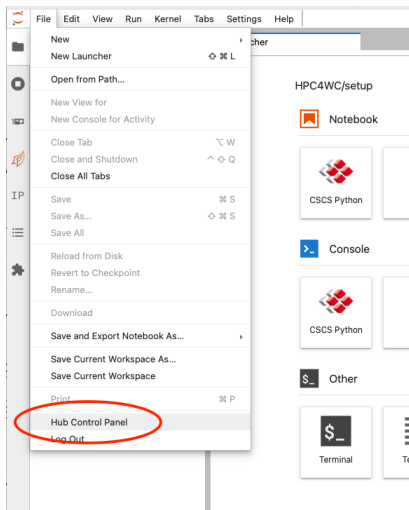
```
ssh ela.cscs.ch    (→ and enter you password)
passwd             (→ and enter your old as well as a new password)
exit
```

9. Type the following commands to install the HPC4WC environment

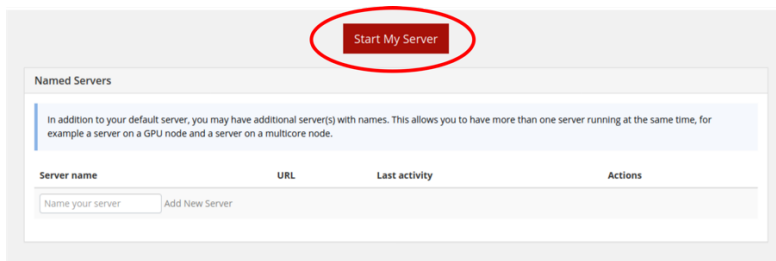
```
git clone https://github.com/ofuhrer/HPC4WC.git
./HPC4WC/setup/HPC4WC_setup.sh
exit
```

**NOTE: The instructions continue on next page!**

10. Stop the current JupyterHub Server by selecting File -> Hub Control Panel and then clicking on the “Stop My Server” button. Wait for a while until the Server has fully stopped.



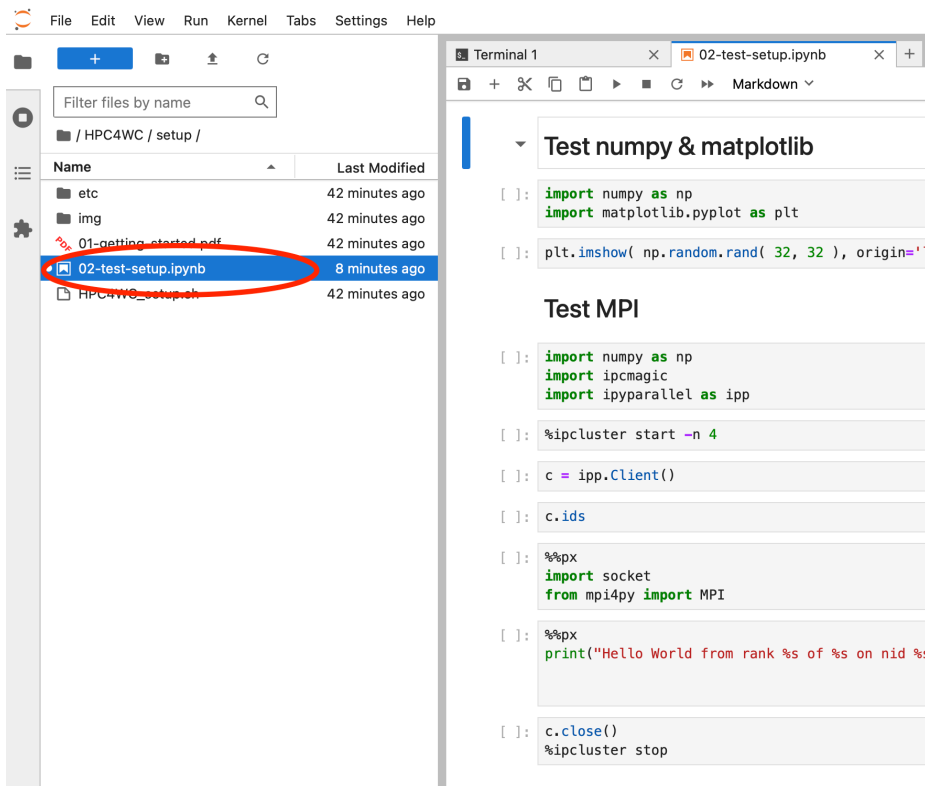
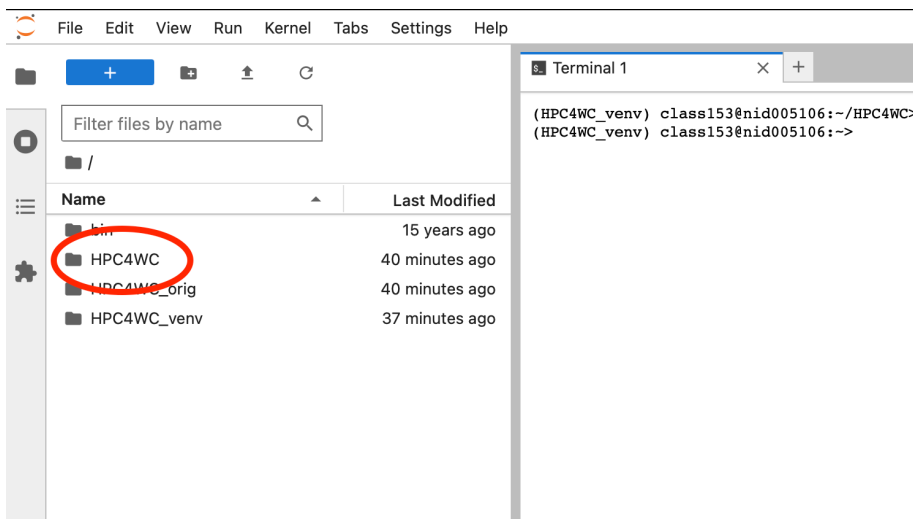
11. Click on “Start My Server”



12. Repeat step 5 above to configure and launch a new JupyterHub server. Wait for the server to spin up.

**NOTE: The instructions continue on next page!**

13. Make sure you can view the left sidebar. In the left sidebar double click on “HPC4WC” → “setup” → “02-test-setup.ipynb”



14.Run the notebook!

**NOTE: End of instructions!**