

## 关于如何启动 GPU 服务器的手册

### 一、 申请账号

发送邮件到 [sdcs\\_cluster@163.com](mailto:sdcs_cluster@163.com) 申请账号密码，邮件主题标注「**高性能计算实验课程账号申请-姓名：xxx-学号：1834xxxx**」，邮件内容填写如下：



收件人： [sdcs\\_cluster@163.com](mailto:sdcs_cluster@163.com) +

主 题： **高性能计算实验课程账号申请-姓名：xxx-学号：1834xxxx**

添加附件 (最大3G) | 从手机上传图片 | PPT模版 **NEW**

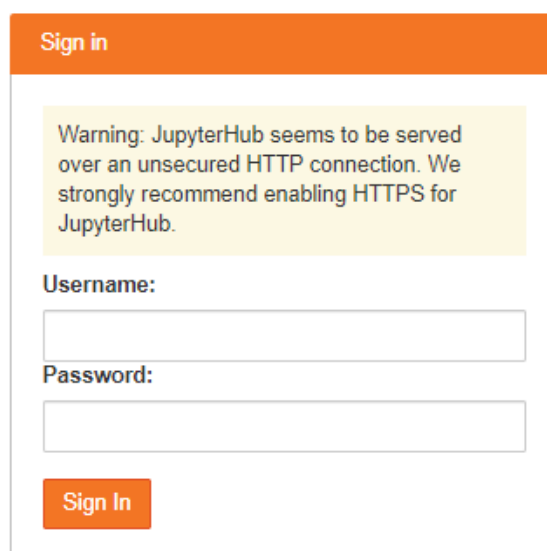
姓名：张三  
学号：1834xxxx  
班级：xxxxxx  
联系方式：137xxxx1234  
校园邮箱：xxx@mail2.sysu.edu.cn

### 二、 登陆账号

获取账号和密码后，登陆以下网址：

<http://jupyterhub.vickytse.cn/hub/login>

在以下界面输入账号和密码登陆：



Sign in

Warning: JupyterHub seems to be served over an unsecured HTTP connection. We strongly recommend enabling HTTPS for JupyterHub.

Username:

Password:

Sign In

### 三、 启动服务器

点击登陆后，在「 **Server Options** 」界面选择「 **Tensorflow and Pytorch with GPU** 」，点击「 **Start** 」进入，如下图所示：

## Server Options

<input type="radio"/>	<b>Minimal environment</b> Python.
<input type="radio"/>	<b>Datascience environment</b> Python, R, and Julia.
<input type="radio"/>	<b>Spark environment</b> The Jupyter Stacks spark image!
<input type="radio"/>	<b>Tensorflow cpu environment</b> Include tensorflow and keras machine learning libraries.
<input type="radio"/>	<b>Tensorflow-gpu 1.15 and Pytorch</b> Tensorflow-gpu 1.15 and Pytorch
<input checked="" type="radio"/>	<b>Tensorflow and Pytorch with GPU</b> Tensorflow and Pytorch with NVIDIA GPU and CUDA Runtime.
<input type="radio"/>	<b>CUDA devel notebook</b> Tensorflow and Pytorch Framework, and NVIDIA CUDA Toolkit Development Files.
<input type="radio"/>	<b>Tools notebook</b> Include java8, gcc, curl, etc.

Start

等待加载完成：

Your server is starting up.

You will be redirected automatically when it's ready for you.

Event log

2020-10-09 08:56:15.197930+00:00 [Normal] Successfully assigned jupyterhub/jupyter-dhuang2012 to 11.11.11.40

▼ Event log

Server requested

2020-10-09 08:56:15.197930+00:00 [Normal] Successfully assigned jupyterhub/jupyter-dhuang2012 to 11.11.11.40

2020-10-09 08:55:36+00:00 [Normal] Created container block-cloud-metadata

2020-10-09 08:55:36+00:00 [Normal] Started container block-cloud-metadata

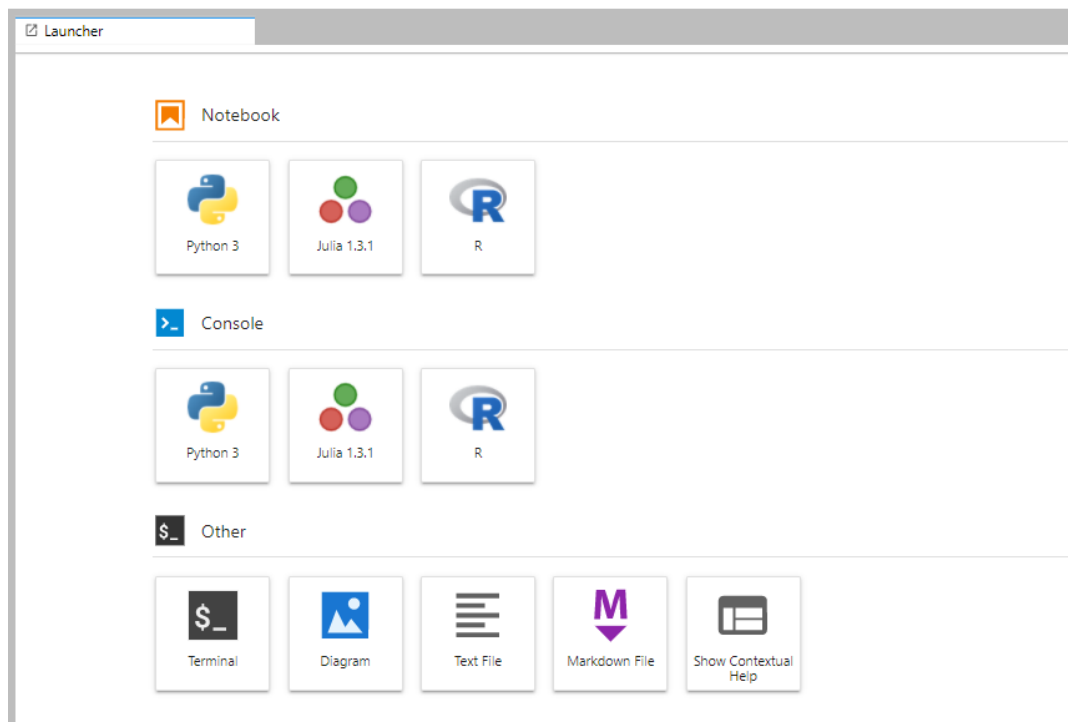
2020-10-09 08:56:15.197930+00:00 [Normal] Successfully assigned jupyterhub/jupyter-dhuang2012 to 11.11.11.40

2020-10-09 08:55:37+00:00 [Normal] Created container notebook

2020-10-09 08:55:37+00:00 [Normal] Started container notebook

2020-10-09 08:56:15.197930+00:00 [Normal] Successfully assigned jupyterhub/jupyter-dhuang2012 to 11.11.11.40

在「 **Launcher** 」页面选择自己的操作类型，这里选择「 **Terminal** 」



在命令行输入命令「 **nvidia-smi** 」验证环境：

```
Terminal 1
jovyan@jupyter-dhuang2012:~$ nvidia-smi
Fri Oct 9 09:03:30 2020

+---+
| NVIDIA-SMI 440.33.01    Driver Version: 440.33.01    CUDA Version: 10.2     |
+---+
| GPU Name      Persistence-M| Bus-Id        Disp.A | Volatile Uncorr. ECC |
| Fan  Temp  Perf  Pwr:Usage/Cap|      Memory-Usage | GPU-Util  Compute M. |
+-----+-----+
| 0 Tesla T4           Off | 00000000:3D:00:0 Off |                    0 |
| N/A   35C    P8      15W / 70W |  0MiB / 15109MiB |    0%      Default  |
+-----+-----+

+---+
| Processes:                                                       GPU Memory |
|  GPU       PID    Type   Process name                     Usage    |
+---+
| No running processes found                                     |
+---+
```