Use Guide of online_CUDA_node

This guide wriiten for Parallel Programming22 Spring

Account and password

For a student whose studentID as 2019011011, the online_CUDA_node Accout and Password would be like:

Account: pp2019011011 password:2019011011

To login

use ssh to login, according to the server, your way as below:

a100: ssh your account@a100n.ssslab.cn -p 20010

intel80: ssh your account@intel80n.ssslab.cn -p 20014

By the way, we suggest that use **Linux** systems to operation, whether virtual machines or dual systems. If you use windows series, you may encounter a series of unexpected problems

Example to refer

for example, my accout to login is pp11124

When you start logging in, enter your password and enter this interface, it indicates that it has been successful. Start uploading the code in your folder and testing it!

```
david@david-KLV-WX9:~$ ssh pp11124@a100n.ssslab.cn -p 20010
pp11124@a100n.ssslab.cn's password:
Welcome to Ubuntu 20.04.4 LTS (GNU/Linux 5.11.0-27-generic x86_64)

* Documentation: https://help.ubuntu.com
    * Management: https://landscape.canonical.com
    * Support: https://ubuntu.com/advantage

2 updates can be applied immediately.
To see these additional updates run: apt list --upgradable

Your Hardware Enablement Stack (HWE) is supported until April 2025.
Last login: Tue May 3 14:24:14 2022 from 127.0.0.1
pp11124@parallel1-MS-7C76:~$
```

After you log in successfully, you can use the command nvidia-smi and nvcc -v to query the hardware configuration and CUDA.

pp11124@parallel1-MS-7C76:~\$ nvidia-smi						
Tue May 3 14:28:04 2022						
NVIDIA-SMI 510.60.02 Driver Version: 510.60.02 CUDA Version: 11.6						
GPU Name Fan Temp 		ersistence wr:Usage/0	[ap	us-Id Disp.A Memory-Usage	GPU-Util	Compute M. MIG M.
======= 0 NVIDI 0% 45C 	A GeForc P8	e Off 7W / 7	f 0			N/A Default N/A
1 NVIDI 0% 46C 	A GeForc P8		F 0	0000000:02:00.0 Off 10MiB / 4096MiB	!	N/A Default N/A
+						
0 N/A 0 N/A	N/A N/A N/A N/A	1079 1729 1881 2304 1079 1729	G G	/usr/lib/xorg/Xorg /usr/lib/xorg/Xorg /usr/bin/gnome-she /usr/lib/firefox/f /usr/lib/xorg/Xorg /usr/lib/xorg/Xorg	 11	41MiB 84MiB 84MiB 40MiB 127MiB 4MiB 4MiB
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For more question, come to your TA