

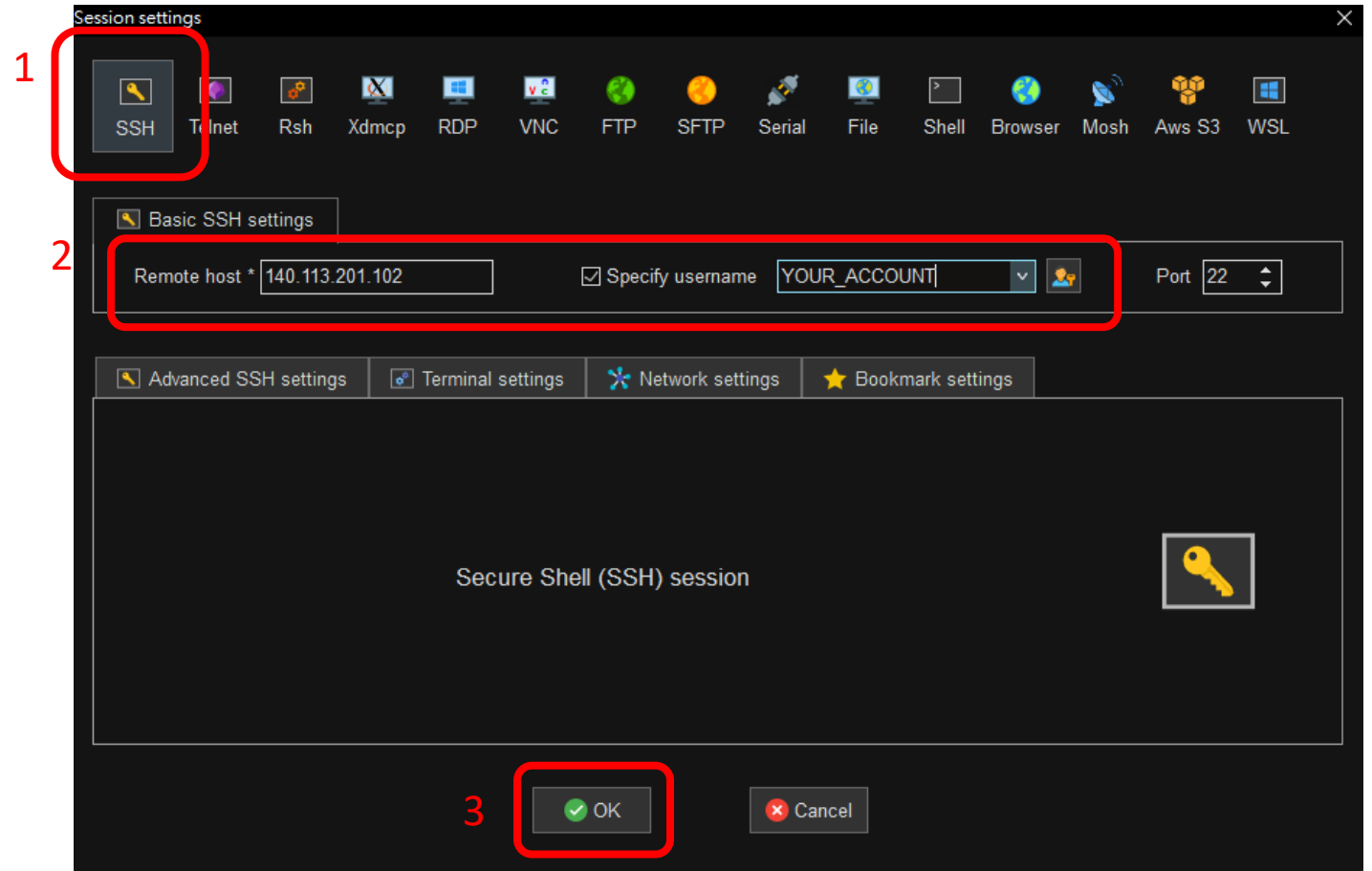
Environment setup

# Outline

- Environment setup
- How to Get GPU Resource

# MobaXterm Setting

- Ip: **140.113.201.102**
- Password: **pc414**



- Change your password

- `$ passwd`

```
ca2019fta01@414server:~$ passwd
Changing password for ca2019fta01.
(current) UNIX password: █
```

- At the first time login to your account, you have to run

- `$ /opt/script/autokeygen.sh`

```
spawn ssh-keygen -t rsa
Generating public/private rsa key pair.
Enter file in which to save the key (/home/NFS/hanchun/.ssh/id_rsa):
Enter passphrase (empty for no passphrase):
Enter same passphrase again:
Your identification has been saved in /home/NFS/hanchun/.ssh/id_rsa
Your public key has been saved in /home/NFS/hanchun/.ssh/id_rsa.pub
The key fingerprint is:
SHA256:omlXoos53vIaKdUDjCnlQaPiH0qbePl4qCSoS/9VzRo hanchun@414server
The key's randomart image is:
+----[RSA 3072]-----+
|
|  .+
| ..o+o
|+... o o
|.o + SE o
|o = =..o
|o+ o* +. .
|* 0*.*.
|B=B+.
+-----[SHA256]-----+
```

# How to Get GPU Resource

- Run command to open a shell with GPU resource

- `$ srun --pty --gres=gpu:1 -u bash -i`

```
ca2019fta01@414server:~$ srun --pty --gres=gpu:1 -u --x11=first bash -i
The authenticity of host 'pc414-82 (140.113.201.82)' can't be established.
ECDSA key fingerprint is SHA256:CKVB1zQcEdCPBH9vZDZqMQhsTs017n20yVAos94nL30.
Are you sure you want to continue connecting (yes/no)? Enter: "yes"
ca2019fta01@pc414-82:~$
```

You shall see host name **pc414-xxx**

- PC414 Rules:
  1. PC414 allocate **each user only 1** GPU
  2. Each allocation of resources limits in **24 hours**. After that, the process will be terminated.

# How to Release GPU Resource

- If you want to exit GPU node, enter **exit** in terminal (or press **Ctrl+D**)
  - This will release GPU resource, and return to 414server

```
user@414server:~$ srun --pty --gres=gpu:1 -u bash -i
user@pc414-82:~$ exit
user@414server:~$
```

# How to Get GPU Resource

- If your process not terminated successfully and get the bellow message after you open new srun bash:

```
user@414server:~$ srun --pty --gres=gpu:1 -u bash -i  
srun: job 10 queued and waiting for resources  
█
```

- Press **(Ctrl+C)**, then run the command to kill the previous process

```
$ scancel --user=YOUT_USER_NAME
```

```
user@414server:~$ scancel --user=user  
user@414server:~$ srun --pty --gres=gpu:1 -u bash -i  
user@pc414-82:~$ █
```

# How to Get GPU Resource

- If you think the command is complicate, you can use “alias” to enter less word with aliasing command

```
$ echo "alias sbash='srun --pty --gres=gpu:1 -u bash -i'" >> ~/.bashrc  
$ source ~/.bashrc
```

- The command will be replaced with “sbash”  
(you can use other word you prefer, be sure not conflicting any command)

```
ca2019fta01@414server:~$ echo "alias sbash='srun --pty --gres=gpu:1 -u --x11=first bash -i'" >> ~/.bashrc  
ca2019fta01@414server:~$ source ~/.bashrc  
ca2019fta01@414server:~$ sbash  
ca2019fta01@pc414-82:~$
```



# Notice!!!!

- After you finish running your code and will not use it for a short time.
  - You should logout(**Ctrl+D**) the shell to release resources for others.
  - Or just close your terminal (MobaXterm)