

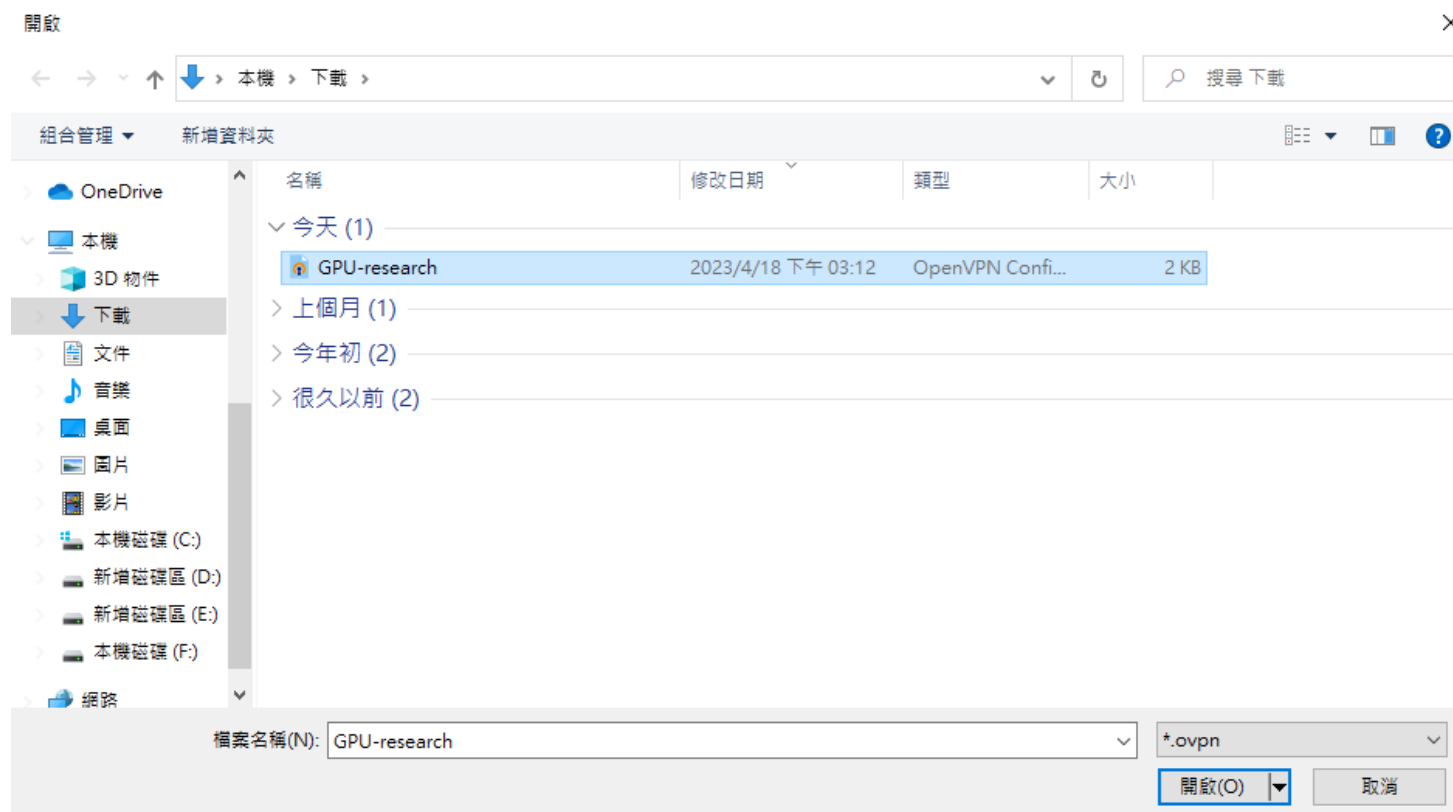
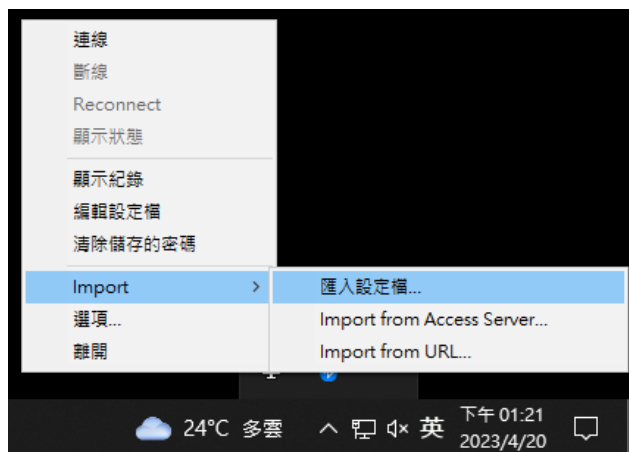
計中GPU使用教學

- 下載安裝openvpn: <https://openvpn.net/community-downloads/>

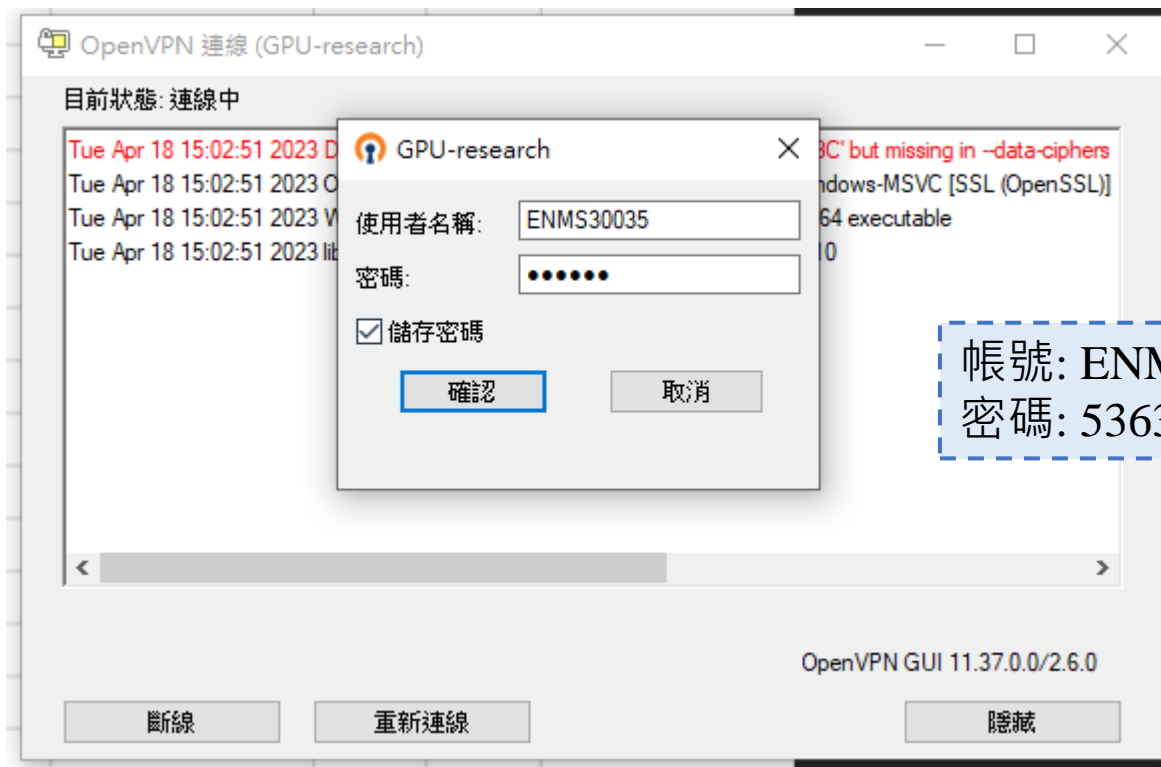
Windows 64-bit MSI installer	GnuPG Signature	OpenVPN-2.6.3-I001-amd64.msi
Windows ARM64 MSI installer	GnuPG Signature	OpenVPN-2.6.3-I001-arm64.msi
Windows 32-bit MSI installer	GnuPG Signature	OpenVPN-2.6.3-I001-x86.msi
Source archive file	GnuPG Signature	openvpn-2.6.3.tar.gz

一般來說 window用戶應該都是載第一種版本, mac用戶可能要另外載其他vpn

- 匯入以下連結的設定檔: <https://www.dropbox.com/s/p8uukyhf4xi22vd/GPU-research.ovpn?dl=0>



- 使用vpn連線至計中



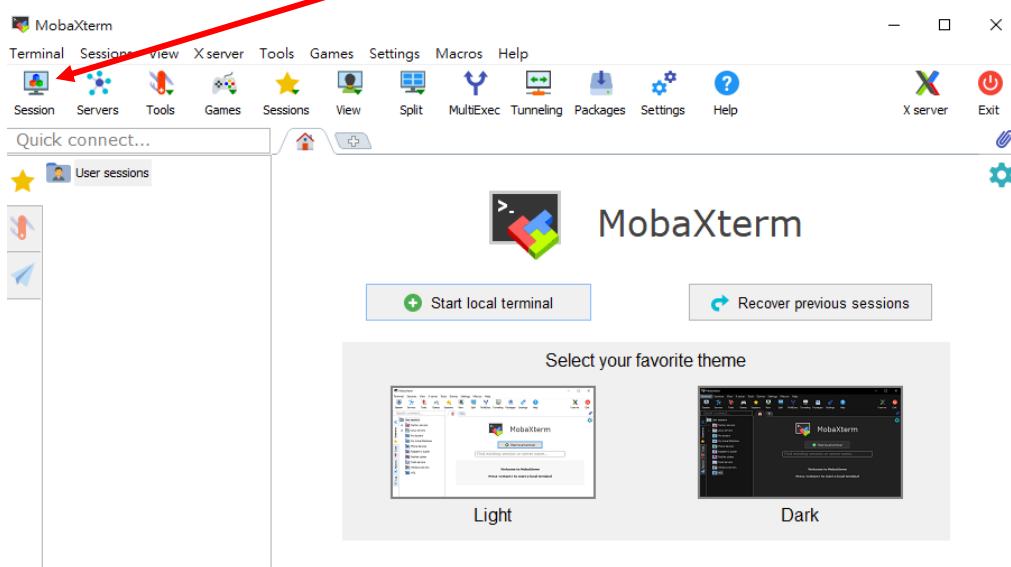
帳號: ENMS30035
密碼: 536302



- 下載SSH連線軟體: <https://mobaxterm.mobatek.net/download-home-edition.html>



- 開啟介面點選Session



- 點選SSH選項並輸入個人的container IP (每個同學的都不一樣)

Session settings

SSH Telnet Rsh Xdmcp RDP VNC FTP SFTP Serial File Shell Browser Mosh Aws S3 WSL

Basic SSH settings

Remote host * 172.30.13.32 ☒ Specify username <default> Port 22

- 點選username的設定並新增使用者資訊

MobaXterm passwords settings

Save sessions passwords ☐ Always ☐ Never ☒ Ask ☐ Save SSH keys passwords as well

Passwords Credentials

Name	Username	Password
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Show passwords Delete selected Delete all Export to file New Edit

Choose where to save passwords ☐ User registry ☒ Configuration file

Master Password settings

OK

- 兩個name都輸入自己的學號，密碼則是由計中分配

MobaXterm

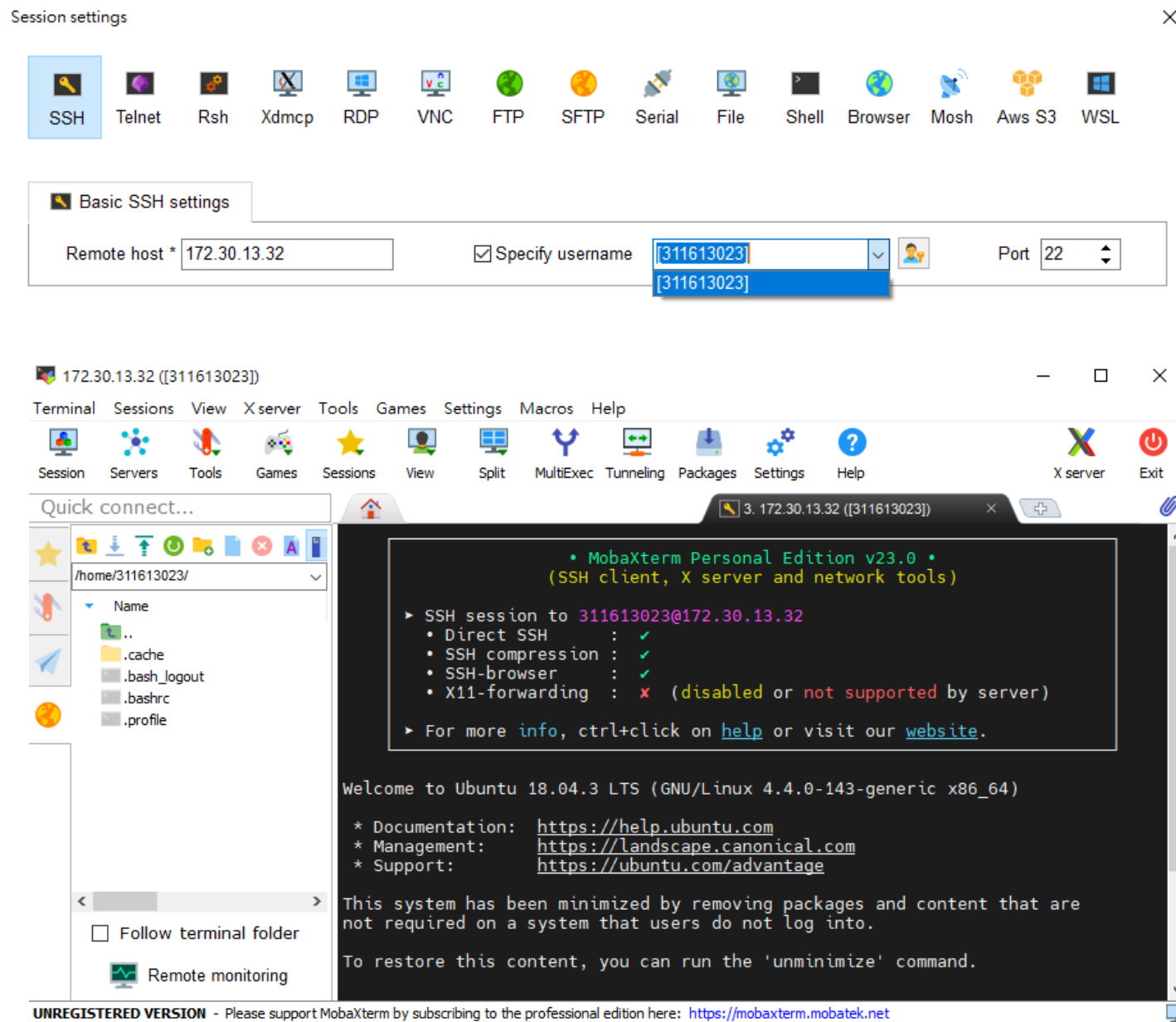
Name

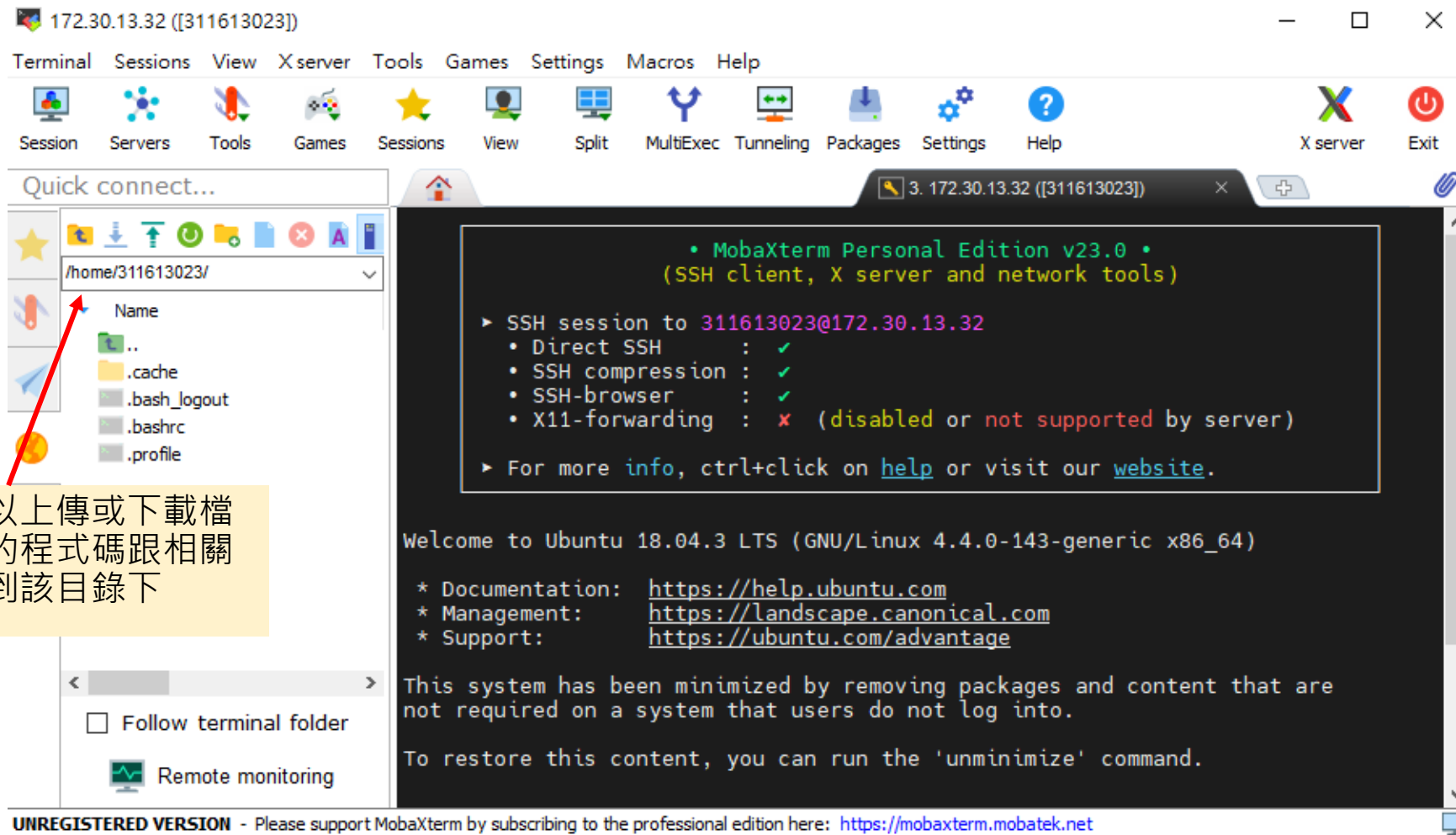
Username

Password

OK Cancel

- 完成後可選擇剛剛設定的帳號資訊，正確連線後可以看到以下介面





- 該目錄下可以上傳或下載檔案，要執行的程式碼跟相關資料請上傳到該目錄下

- 輸入nvidia-smi可顯示目前的gpu使用狀況

```
$ nvidia-smi
Mon Apr 24 05:45:18 2023

+-----+
| NVIDIA-SMI 410.129                Driver Version: 410.129          CUDA Version: 10.1         |
+-----+-----+
| 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 P100-PCIE ...        Off | 00000000:0B:00.0 Off |                    0 |
| N/A   39C    P0      26W / 250W |  0MiB / 16280MiB |      0%    Default |
+-----+-----+

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

$
```

- 目前的環境下自帶tensorflow的1.14版本，有需要更換版本或是使用pytorch的同學可自行調整該container環境

```
3. 172.30.13.32 ([311613023])
ipaddress (1.0.17)
Keras-Applications (1.0.8)
Keras-Preprocessing (1.1.0)
keyring (10.6.0)
keyrings.alt (3.0)
Markdown (3.1.1)
mock (3.0.5)
numpy (1.16.5)
pip (9.0.1)
protobuf (3.10.0)
pycrypto (2.6.1)
pygobject (3.26.1)
pyxdg (0.25)
SecretStorage (2.3.1)
setuptools (41.6.0)
six (1.11.0)
tensorboard (1.14.0)
tensorflow-estimator (1.14.0)
tensorflow-gpu (1.14.0)
termcolor (1.1.0)
Werkzeug (0.16.0)
wheel (0.30.0)
wrap (1.11.2)
$
```