



Course name

BM40A1400 GPGPU Computing

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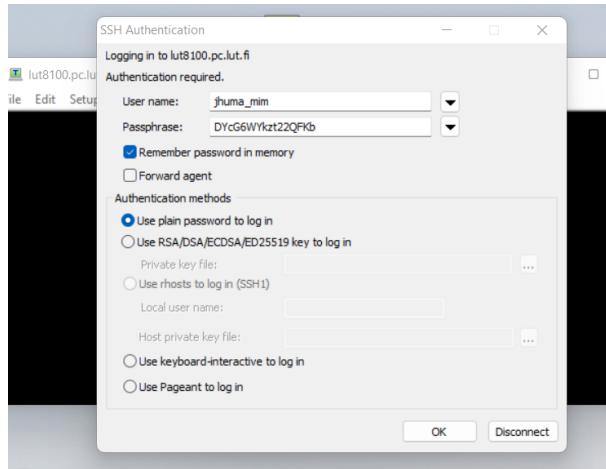
Date : February 6, 2022

Problem 1

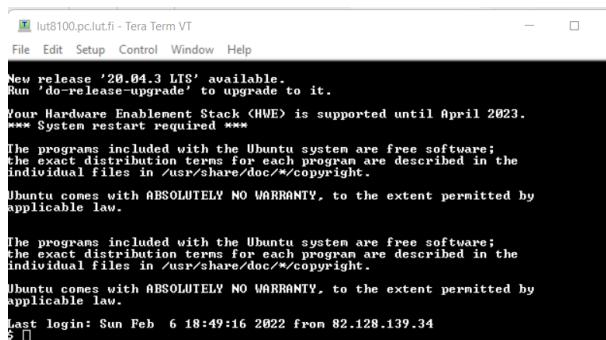
- 1.Get user account for the LUT CopE NVIDIA. 2.Log in to the GPU machine. 3.Can you find CUDA commands and libraries? Extra points: Install CUDA to your own laptop/desktop.

Solution

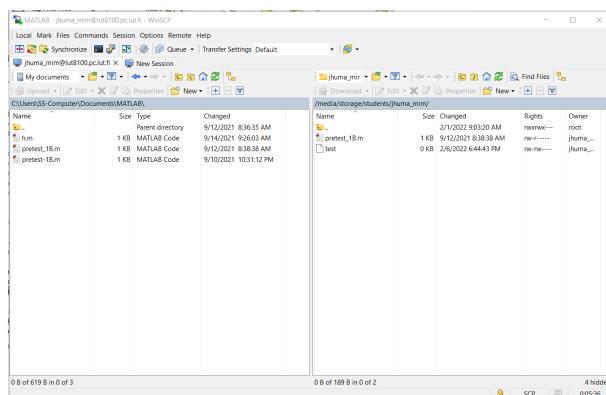
1. At first login the University server.



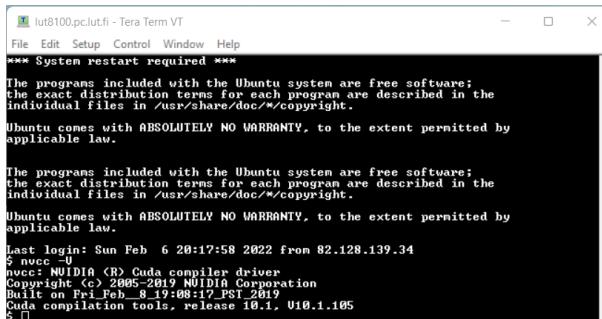
2. Tera Team VT accessing.



3. Local File exchange with the server using WinSCP



- 4.1 Software stack available on the university GPU server (CUDA).

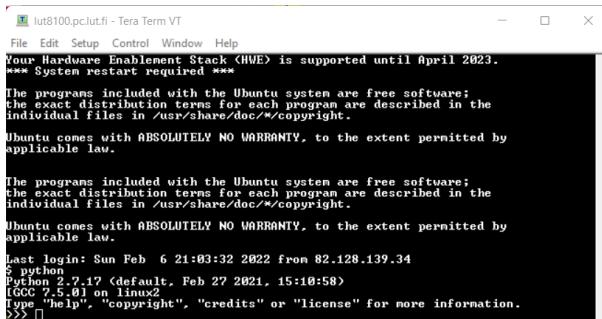


```
lut8100.pc.lut.fi - Tera Term VT
File Edit Setup Control Window Help
*** System restart required ***
The programs included with the Ubuntu system are free software;
the exact distribution terms for each program are described in the
individual files in /usr/share/doc/*/*copyright.
Ubuntu comes with ABSOLUTELY NO WARRANTY, to the extent permitted by
applicable law.

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applicable law.

Last login: Sun Feb  6 20:17:58 2022 from 82.128.139.34
$ nvcc -V
nvcc: NVIDIA (R) Cuda compiler driver
Copyright (c) 2005-2019 NVIDIA Corporation
Built on Fri_Feb_ 8 19:08:17_PST_2019
Cuda compilation tools, release 10.1, V10.1.105
$
```

4.2 Software stack available on the university GPU server (Python).



```
lut8100.pc.lut.fi - Tera Term VT
File Edit Setup Control Window Help
Your Hardware Enablement Stack (HWE) is supported until April 2023.
*** System restart required ***
The programs included with the Ubuntu system are free software;
the exact distribution terms for each program are described in the
individual files in /usr/share/doc/*/*copyright.
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Last login: Sun Feb  6 21:03:32 2022 from 82.128.139.34
$ python
Python 2.7.17 (default, Feb 27 2021, 15:10:58)
[GCC 7.5.0] on linux2
Type "help", "copyright", "credits" or "license" for more information.
$
```