How to Use Linux Server on EMCLAB20

Ling Zhang
July 17th, 2019
Linux Server on EMCLAB20

- Linux server with two GeForce GTX 1080 Ti gpu can support Python projects and accelerate the training of neural network.
Access to EMCLAB20

- If you need access to EMCLAB20 to run Python projects, please contact Ling Zhang (lzd76@mst.edu)
Log into Server using Putty

- The IP address of Linux server EMCLAB20:
  - emclab20.managed.mst.edu
- Log in using Putty:
Log in Using Username and Password

Input your MST username and password as follows: (password won’t be displayed)

Available Virtual CS213 Computers - rc01xcs213 through rc40xcs213
Available Virtual ECE107 Computers - rc19xece107 through rc40xece107

Contact IT regarding questions about these systems. http://help.mst.edu
Run Python Program

Run your python program

Install the package you need
Use Tensorboard

Access the folder where you store your Tensorboard results

```bash
UM-AD\lzd76@emclab20:~/Desktop/PDN RL v1$ tensorboard --logdir=source/summary
TensorBoard 1.14.0 at http://emclab20:6006/ (Press CTRL+C to quit)
```

Enter this address in your local browser to see the tensorboard results
Modify Python File on Server Remotely

Use vim to edit some python file on the server:

```
UM-AD\lzd76@emclab20:~/Desktop/RL-PCB-Optimization$ vim config.py
```

Press ‘a’ to start editing

Press ‘Esc’ to exit editing

Press ‘:wq’ to finish editing and quit
Upload Files Through FileZilla

Besides using Github, another way to upload files onto the server in Windows system is through FileZilla. Enter the host name, your username and password, and port number, and then you can have access to the server, and upload your local files onto the server through Github.