## How to upload data files to Vagrant

Tags: Spark, VirtualBox, Vagrant, Jupyter

Usually the upload feature in the Jupyter window fails when data files are large. I will demonstrate a method that uses shared folder. You should know the shared folder's name in your hard drive. You can get it from the output when you start vagrant:

```
Microsoft Windows [Version 6.3.9600]

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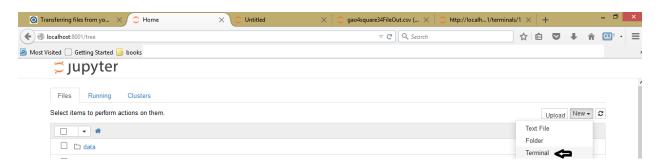
C:\Users\_\circ\corporation. All rights reserved.

All rights reserved.

C:\Users\_\circ\corporation. All rights reserved.

All rights reserv
```

Typically, the shared folder is c:/Users/USERNAME/myvagrant. Copy the file containing your dataset in this directory. The shared folder is merely a folder in your virtual box that is running a linux OS. You can explore the shared folder using a terminal in the Jupyter.



## 💆 jupyter

```
wheelhouse
      dev
          home
                       lib
                                   media
                                          opt
                                                 root
                                                       sbin
                                                                  usr
                                                             sys
                                                                            var
     etc
          initrd.img
                      lost+found mnt
                                                                  vagrant
                                                                            vmlinuz
boot.
                                           proc
                                                 run
                                                       srv
                                                             tmp
$ ls vagrant
  grantfile
             gao4square34FileOut.csv myvagrantroot.txt
```

As you can see, I have uploaded the file gao4square34FileOut.csv which over 300MB. Now I have to copy this file into /home/vagrant folder so that I can see the dataset from Jupyter.

## 💆 jupyter

```
$ cp vagrant/gao4square34FileOut.csv home/vagrant/data/GSN
$ cd home/vagrant/data/GSN
$ head -n 3 gao4square34FileOut.csv
"X","user","location","latitude","longitude","Dates","wd","rf","ss",""daysSince","category","tier1Category"
1,0,0,41.72757566,-88.03198814,"2011-01-01 00:00:01","Saturday",0.016"Supermarket","Shop & Service"
2,0,1245,41.94358766,-87.64941126,"2011-01-01 03:47:42","Saturday",0."Saturday-Saturday","0-1245",13661,0,"Gay Bar","Nightlife Spot"
```

Some of the output is cut due to the space constraint. Now let's write a python program to read the first two lines of the file.



The dataset is now in vagrant and we can read it.

Another way of uploading dataset is to use scp command. Format of the command is following:

scp fileYouWantToUpload vagrant@127.0.0.1:2222

You are likely to get an error saying bad file number. This is due to the fact that SSH is typically blocked on the specified port. You can resolve the issue by editing SSH configuration file. You can follow this post.

Thanks for reading!