Uploading data to S3 via command line

- 1. First, use the instructions from Module 2, Session 3 to create an empty S3 bucket to store your data. <u>Here is the link for the same.</u>
- 2. Next, you need to connect to your Master node.

```
EEEEEEEEEEEEEEEEE MMMMMMM
                         M::::::: M R:::::::::R
EE:::::EEEEEEEEE:::E M:::::::M
                        M:::::::M R:::::RRRRRR:::::R
 M:::::::: M RR::::R
                                       R::::R
             E::::E
                                        R::::R
 E:::::EEEEEEEEE M:::::M M:::M M::::M R:::RRRRRR:::::R
 E::::EEEEEEEEE M::::M M::::M R:::RRRRRR:::R
                          M:::::M R:::R
 E::::E
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 E::::E EEEEE M:::::M
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EE:::::EEEEEEEE::::E M:::::M
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EEEEEEEEEEEEEEEEE MMMMMMM
                                        RRRRRR
[ec2-user@ip-10-0-0-56 ~]$
```

- 3. After you are connected to your Master node, type 'df' to get a directory listing.
- 4. Find a directory which has enough space (typically, a < 10% value will accommodate most data-sets), and go into that directory (e.g. here, we used cd /mnt1)

```
[[ec2-user@ip-10-0-0-56 /]$ cd /mnt1
[[ec2-user@ip-10-0-0-56 mnt1]$ ls

mapred namenode s3 spark
[ec2-user@ip-10-0-0-56 mnt1]$ ||
```

 Now, use the following command on your Master terminal: sudo wget <link to file> (the sudo is necessary to override permissions. You can use 'ls' to verify that the file has been downloaded. As an example, we'll download the MNIST data-set)

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- 6. Sometimes, your data will be in .gz format. To unzip, use the command: sudo gzip -d filename
 (You can use 'ls' to verify that the file has been unzipped)
- 7. Now for the actual upload to S3. AWS provides a very powerful command line interface for all of their services. Run the following command: aws s3 cp filename s3://bucketname/

```
[ec2-user@ip-10-0-0-56 mnt1]$ aws s3 cp mnist_train.csv s3://spark-data-jaideep upload: ./mnist_train.csv to s3://spark-data-jaideep/mnist_train.csv [ec2-user@ip-10-0-0-56 mnt1]$
```

8. You're all set! If you go to your S3 console, you will be able to see your data file there.



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For copying a whole directory, use the following command:
 aws s3 cp -R <filename>
 (here, the -R stands for 'recursive', which means the command repeats itself through the entire directory and all its subdirectories)