MongoDb – How to Connect

There are several ways to access mongo

1) Connect to the Mongo Shell

- use PuTTY or ssh to connect to a genuse server. then at the prompt enter mongo smgo7db01.smu.edu:27017 -u <yourmongoid> -p <pwd> --authenticationDatabase "yourdb"
- do not include the angle brackets replace with your mongoid, password and main database name
- use the mongo commands to perform CRUD operations

2) Connect with Python using the pymongo package

Since mongo sits behind the Lyle Firewall, I recommend **uploading your Python code to a genuse server** or **write it directly on the server.** The following code shows an example of a Python program uploaded to a genuse server. When run via genuse command line, it connects to the mongo server.

After uploading your Python code to genusexx, use **PuTTy** or **ssh** to open a command window on the genuse server and run the Python code.

```
import pymongo
import json
from pymongo import MongoClient
#create the python client - replace with your userid:password below
client = MongoClient('mongodb://coyle:mongoPassword@smgo7db01.smu.edu:27017/coyledb')
# Choose the database to use as 'db'
db = client.covledb
# Create some documents for insertion
for p in posts:
       db.blog.insert(p)
# load documents from a json file
lines = open('mydata.json').readlines()
for line in lines:
       mydict = json.loads(line)
       db.blog.insert(mydict)
```

3) Use Jupyter Notebook after tunneling into a Genuse Server

To work with Mongo from Jupyter:

- 1. Tunnel into a GENUSE server of your choice (higher numbers)
- 2. Launch Jupyter notebook -no-browser
- 3. From a browser connect to localhost:8888 (or 8889 or..) and paste the key
- 4. When Jupyter opens, you are behind the firewall and can execute code as follows:

