

Mongo Pilfer part 2

Answers to Previous Questions

- 1) It would be nice to know what Holly was looking for. What information is available in `lsof -i`?

The command `lsof` lists open files. With the `-i` option, it lists open files that have connections to the Internet and gives the IP address and port number. Holly is most likely looking for the IP address and port number that a file is connected to.

- 2) What flags are necessary to get the information Holly wants from `ps`?

There are lots of choices but in our class, we have often used `ps aux`.

```
elf@981807699cb2:~$ ps aux
USER      PID %CPU %MEM    VSZ   RSS TTY      STAT START   TIME COMMAND
elf        1  0.0  0.0  18508  3544 pts/0    Ss   20:51   0:00 /bin/bash
mongo     9  0.3  0.2 1020932 67524 ?        Sl   20:51   0:04 /usr/bin/mongod --quiet --fork --p
elf       50  0.0  0.0  34400  2976 pts/0    R+   21:10   0:00 ps aux
elf@981807699cb2:~$
```

The mongo user ran `mongod`, but the options in the command line have been truncated. We can pipe the results into `more` to see the entire line (less is not available on this terminal.)

```
elf@981807699cb2:~$ ps aux | more
USER      PID %CPU %MEM    VSZ   RSS TTY      STAT START   TIME COMMAND
elf        1  0.0  0.0  18508  3544 pts/0    Ss   20:51   0:00 /bin/bash
mongo     9  0.3  0.2 1020932 67524 ?        Sl   20:51   0:04 /usr/bin/mongod --quiet --fork --p
ort 12121 --bind_ip 127.0.0.1 --logpath=/tmp/mongo.log
elf       51  0.0  0.0  34400  2932 pts/0    R+   21:12   0:00 ps aux
elf       52  0.0  0.0   6768   896 pts/0    S+   21:12   0:00 more
```

The mongo database is accessible at 127.0.0.1, port 12121.

- 3) With the information you have, can you connect to the mongo database? Hint: the command is `mongo`, and `mongo --help` will show the options you can use.

```
elf@981807699cb2:~$ mongo --help
MongoDB shell version v3.6.3
usage: /usr/bin/mongo [options] [db address] [file names (ending in .js)]
db address can be:
  foo                foo database on local machine
  192.168.0.5/foo    foo database on 192.168.0.5 machine
  192.168.0.5:9999/foo  foo database on 192.168.0.5 machine on port 9999
```

We don't know the database, maybe we can leave that off.

```
elf@981807699cb2:~$ mongo 127.0.0.1:12121
MongoDB shell version v3.6.3
connecting to: mongodb://127.0.0.1:12121/test
MongoDB server version: 3.6.3
Welcome to the MongoDB shell.
For interactive help, type "help".
For more comprehensive documentation, see
  http://docs.mongodb.org/
Questions? Try the support group
  http://groups.google.com/group/mongodb-user
Server has startup warnings:
2020-01-11T20:51:48.194+0000 I CONTROL [initandlisten]
2020-01-11T20:51:48.194+0000 I CONTROL [initandlisten] ** WARNING: Access control is not enabled f
or the database.
2020-01-11T20:51:48.195+0000 I CONTROL [initandlisten] **          Read and write access to data a
nd configuration is unrestricted.
2020-01-11T20:51:48.195+0000 I CONTROL [initandlisten]
2020-01-11T20:51:48.195+0000 I CONTROL [initandlisten]
2020-01-11T20:51:48.195+0000 I CONTROL [initandlisten] ** WARNING: /sys/kernel/mm/transparent_huge
page/enabled is 'always'.
2020-01-11T20:51:48.195+0000 I CONTROL [initandlisten] **          We suggest setting it to 'never'
2020-01-11T20:51:48.195+0000 I CONTROL [initandlisten]
>
```

Connected!

Use your search engine skills or the link Holly gave us to find the solution.

<https://docs.mongodb.com/manual/reference/command/listDatabases/#dbcmd.listDatabases>

Question

- 4) What commands did you use to connect to the database and find the solution?