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Module 2 Assessment

1) Use the appropriate command to list all files larger than 1 MB in the current directory and save the output to a file.

```
boss@boss:~/Documents/testdir$ find . -type f -size +1M
./bigfile.txt
boss@boss:~/Documents/testdir$ find . -type f -size +1M > large.txt
boss@boss:~/Documents/testdir$ cat large.txt
./bigfile.txt
```

2) Replace all occurrences of "localhost" with "127.0.0.1" in a configuration file named connfig.txt, and save the updated file as updated_connfig.txt.

```
boss@boss:~/Documents/testdir$ cat connfig.txt
server_name = localhost
listen 80
db_host = localhost
log_host = localhost
cache_server=localhost

boss@boss:~/Documents/testdir$ sed 's/localhost/127.0.0.1/g' connfig.txt > updated_connfig.txt
boss@boss:~/Documents/testdir$ cat updated_connfig.txt
server_name = 127.0.0.1
listen 80
db_host = 127.0.0.1
log_host = 127.0.0.1
cache_server=127.0.0.1
```

3) Use the appropriate command to search for lines containing the word "ERROR" in a log file but exclude lines containing "DEBUG". Save the results to a file named pure_filtered.txt

```
boss@boss:~/Documents/testdir$ touch filtered_log.txt
boss@boss:~/Documents/testdir$ grep "ERROR" filtered_log.txt | grep -v "DEBUG"
ERROR: Unable to connect to the database.
ERROR: Failed to fetch data from API endpoint /users.
ERROR: Missing required parameter in the request.
boss@boss:~/Documents/testdir$ grep "ERROR" filtered_log.txt | grep -v "DEBUG" > pure_filtered.txt
boss@boss:~/Documents/testdir$ cat pure_filtered.txt
ERROR: Unable to connect to the database.
ERROR: Failed to fetch data from API endpoint /users.
ERROR: Missing required parameter in the request.
```

4) Write a code to identify the process with the highest memory usage and then terminate it.

```
boss@boss:~/Documents/testdir$ ps aux --sort=-%mem | head -n 2
USER      PID %CPU %MEM    VSZ   RSS TTY      STAT START   TIME COMMAND
boss      2535  2.2 11.0 11822608 808512 ?        Sl   12:54   1:47 /usr/lib/firefox-esr/firefox-esr -contentproc -isForBrowser -prefsHandle 0:40966 -p
refMapHandle 1:270580 -jsInitHandle 2:242716 -parentBuildID 20251009121631 -sandboxReporter 3 -chrootClient 4 -ipcHandle 5 -initialChannelId {52dd6977
-3df2-4a87-a8ca-e1ee4e418eaf} -parentPid 2087 -crashReporter 6 -crashHelper 7 -greomni /usr/lib/firefox-esr/omni.ja -appomni /usr/lib/firefox-esr/brow
ser/omni.ja -appDir /usr/lib/firefox-esr/browser 10 tab
boss@boss:~/Documents/testdir$ kill 2535
```

5) Use the networking tool command and print all the gateways available in a sorted manner.

```
boss@boss:~/Documents/testdir$ ip route | awk '/default/ {print $3}' | sort -u
10.158.85.62
```