Digital Forensics - Lab 2

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Question 1:

Download and install Microsoft's Log Parser tool for the Windows environment from Microsoft's Web Site.

Read the examples and take screenshots by running three different commands that work

For this experiment, I have used a windows 7 installed in a virtual machine. I have installed the required log parser version 2.2 from the Microsoft website. Using this I have obtained the outputs as shown below. I have first navigated to the folder where the log parser software is present, and then we execute the commands specified below.

I have tried a few commands and have tried different versions of the same too, I have explained each and have shown the output of each.

A. Display the contents of the Desktop folder

In order to do this we, design the query as follows:

LogParser "SELECT Name, Size FROM C:\Users\UserName\Desktop*.* ORDER BY
Size DESC" -i:FS

We have displayed the name and size of the contents of the desktop folder, I have also ordered the files by their size in descending order. The output I have received when executed is as follows:

B. Display the 2 largest files in the Desktop folder

In order to do this we, design the query as follows:

```
LogParser "SELECT TOP 2 Name, Size FROM C:\Users\UserName\Desktop\*.*

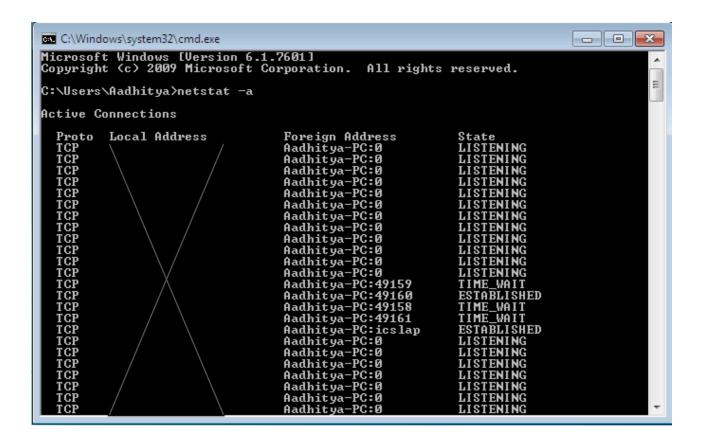
ORDER BY Size DESC" -i:FS
```

We have displayed the name and size of the two largest files in the desktop folder, I have also ordered the files by their size in descending order. The output I have received when executed is as follows:

C. Display all the currently listening Network ports

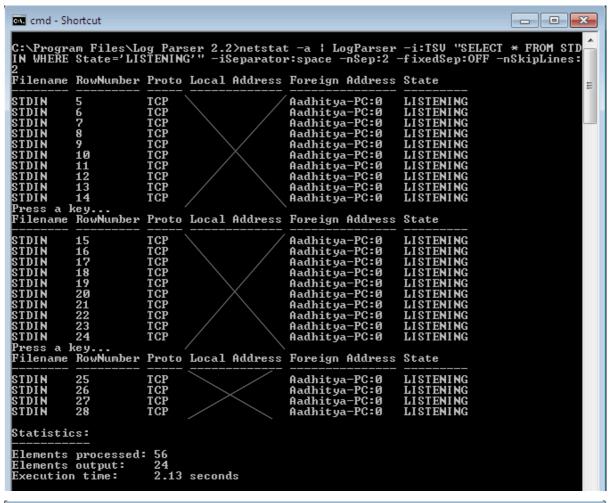
In order to create a log parser query for this, we redirect the output of the "netstat" command to the log parser query.

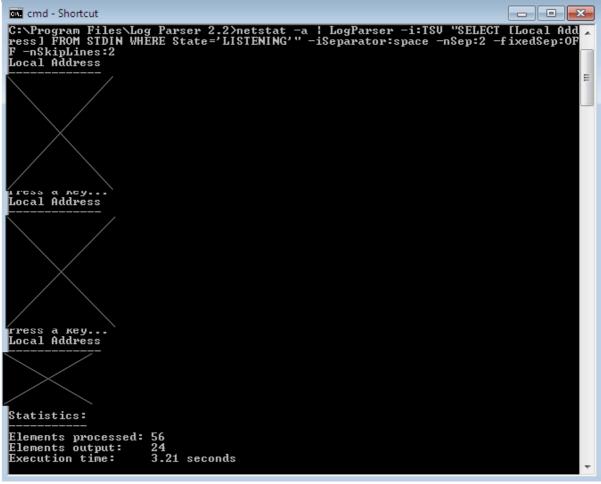
The "netstat" command is used to display all the open network ports. An example output of this command is as follows:



We can notice that the state denotes the state of the port, we will use this in our query, we will divert the output into the log parser using the pipeline command. The final log parser query is as follows:

netstat -a | LogParser -i:TSV "SELECT * FROM STDIN WHERE State='LISTENING'"
-iSeperator:space -nSep:2 -fixedSep:OFF -nSkipLines:2





D. Display the 10 largest text files from the users folder in windows C drive

In order to do this we, design the query as follows:

```
LogParser "SELECT TOP 10 Name, Size FROM C:\Users\*.txt ORDER BY Size

DESC" -i:FS
```

We have displayed the name and size of the ten largest text files in the Users folder, I have also ordered the files by their size in descending order. Notice that text file have an extension of ".txt", we have used this property to filter out the text files. The output I have received when executed is as follows:

```
C:\Program Files\Log Parser 2.2\LogParser "SELECT TOP 10 Name, Size FROM C:\User S\*.txt ORDER BY Size DESC" -i:FS
Name Size

14-aab7db[1].txt 170078
14-aab7db[1].txt 170078
css[1].txt 143792
b7-aa00cb-a84bb8ba[1].txt 136798
articleCss[1].txt 136211
floodgate[1].txt 13880
brndlog.txt 12184
officeShared[1].txt 4230
Task completed with parse errors.
Parse errors:
64 parse errors occurred during processing (To see details about the parse error(s), execute the command again with a non-zero value for the "-e" argument)

Statistics:

Elements processed: 27
Elements output: 10
Execution time: 0.06 seconds

C:\Program Files\Log Parser 2.2>
```

E. Display the 10 smallest text files from the users folder in windows C drive

In order to do this we, design the query as follows:

LogParser "SELECT TOP 10 Name, Size FROM C:\Users*.txt ORDER BY Size" -i:FS

We have displayed the name and size of the ten smallest text files in the Users folder, I have also ordered the files by their size in descending order. Notice that text file have an extension of ".txt", we have used this property to filter out the text files. The output I have received when executed is as follows:

CONCLUSION

We have in this experiment, performed many forensic analysis on the hard disk folders using Microsoft's Log Parser Tool, like knowing the top 10 largest or smallest files, or to use the log parser tool for higher purposes by redirecting the output of other commands to this, like finding the network ports with a particular status, etc.