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CYB – 301

TMP Cleanup Documentation

Cleanup Code:

```
1 #!/bin/bash
2
3
4
5 read -p "Input the Directory Path for cleaning: " directory
6
7 if [ -d $directory ]; then
8 echo "Directory exists, Loading..."
9 sleep 1
10 cd $directory
11 else
12 echo "Directory does not exist."
13 fi
14 echo ""
15 #space
16
17
18
19 echo "Current Directory: "
20 pwd
21 #space
22 echo ""
23 #space
24
25
26 echo "Current Directory Disk Space: "
27 du -sh
28 echo ""
29
30
31 sleep 1
32
33 echo "Found files"
34 find $directory -name "*.tmp" -type f
35
36
37 #space
38 echo ""
39 echo "Deleting .tmp files older than 7 days"
40 echo "Loading..."
41 sleep 1
42 echo ""
43 #space
44
45 echo "Total Files Deleted: "
46 find $directory -name "*.tmp" -type f -mtime +7 | wc -l
47 echo ""
48 echo "Files Deleted: "
49 find $directory -name "*.tmp" -type f -mtime +7 -print -delete
50 sleep 1
51 echo ""
52
53 echo "Current Directory Disk Space: "
54 du -sh
55 echo ""
56
57 echo "Disk Space Freed: "
58 du -sh $directory | awk '{print $1}'
59 disk1=$(du -sh $directory | awk '{print $1}')
60 echo ""
61
62 echo "Clean up Finished."
```

Tmp file creator code:

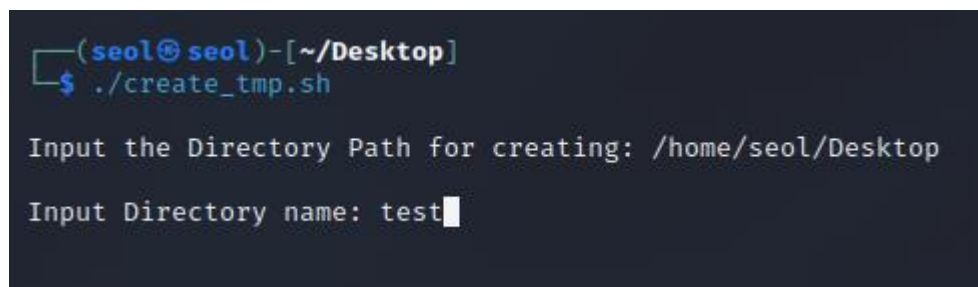
```
1 #!/bin/bash
2
3 echo ""
4 read -p "Input the Directory Path for creating: " dirs
5 echo ""
6
7 if [ -d $dirs ]; then
8 cd $dirs
9 read -p "Input Directory name: " filename
10 mkdir $filename
11 sleep 1
12 else
13 echo "Directory already exists, Creating tmp files in the directory..."
14 fi
15 echo ""
16 #space
17
18
19 echo "Current Directory: "
20 pwd
21 #space
22 echo ""
23 #space
24
25 cd $filename
26 echo "Creating tmp files for testing..."
27 echo "1 New tmp file created."
28 echo "2 Old tmp files created."
29 sleep 1
30
31 touch newfile.tmp
32 touch -a -m -t 201511180130.09 oldfile.tmp
33 touch -a -m -t 202012180130.09 oldfile2.tmp
34
35 echo ""
36 echo "Files created! please double check directory!"
37 cd $dirs/$filename
38 pwd
39 echo ""
40 ls
41
42 echo ""
43
44 echo "Creating variables inside the test tmp files..."
```

```
44 echo "Creating variables inside the test tmp files..."
45 sleep 1
46
47 echo "a" >> newfile.tmp
48
49 echo "variable variable variable variiable variable variable variable variable variiable variable variable" >> oldfile.tmp
50
51 echo "fake virus fake virus fake virus fake virus fake virus fake virus fake virus fake virus fake virus fake virus fake virus fake virus fake v
virus fake virus fake virus fake virus fake virus fake virus fake virus fake virus fake virus fake virus fake virus fake virus fake v
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52
53 touch newfile.tmp
54 touch -a -m -t 201511180130.09 oldfile.tmp
55 touch -a -m -t 202012180130.09 oldfile2.tmp
56
57 echo ""
58 echo "Created!"
59
60 echo ""
61 echo "All processes Finished."
62
63 #-a = file access time
64 #-m = file modify time
65 #-t = file timestamp
```

1. Instructions said to create a program that can clean specific .tmp extension files which are older than 7 days, list the total amount of files deleted and list the disk space freed, I started to create a prototype at the school earlier, but it only takes the user input directory and cd's the user towards the input directory path.
2. After I got home (started 10:58 pm), I went ahead and continued the code adding various modifications which gives the total space of the current directory and the ending space of the directory plus the total space freed. But the problem is how I could get an old tmp file which led me to step 3.
3. I decided to create a tmp creator file that creates old tmp files which dated back past 7 days so that I could specify the code to delete it. I added 2 more extra files which totaled to 2 old ones and 1 new one, I had no way of knowing if the disk space is freed or the amount changed so I added variables inside the newly created old tmp files.
4. After running the tmp creator program it is time to run the clean-up program/software.
5. After lots of trial and error I finally finished the clean-up program to make it display all the requirements and more. (ended 2:15 am)

How to run and running the program.

1. We chmod +x both sh programs.
2. We run the tmp creator first because we can't delete what does not exist.



```
(seol@seol)-[~/Desktop]
$ ./create_tmp.sh

Input the Directory Path for creating: /home/seol/Desktop

Input Directory name: test
```

3. It created tmp files with variables in them. 2 old files with different bytes and a new file with 2 bytes. In this case it detects that I already created a test directory beforehand, so it just adds the tmp files in it instead. The if else statement can detect if a directory already exists and creates on if it does not exist.

```

(seol@seol)-[~/Desktop]
$ ./create_tmp.sh

Input the Directory Path for creating: /home/seol/Desktop

Input Directory name: test
mkdir: cannot create directory 'test': File exists

Current Directory:
/home/seol/Desktop

Creating tmp files for testing...
1 New tmp file created.
2 Old tmp files created.

Files created! please double check directory!
/home/seol/Desktop/test

newfile.tmp  oldfile.tmp  oldfile2.tmp

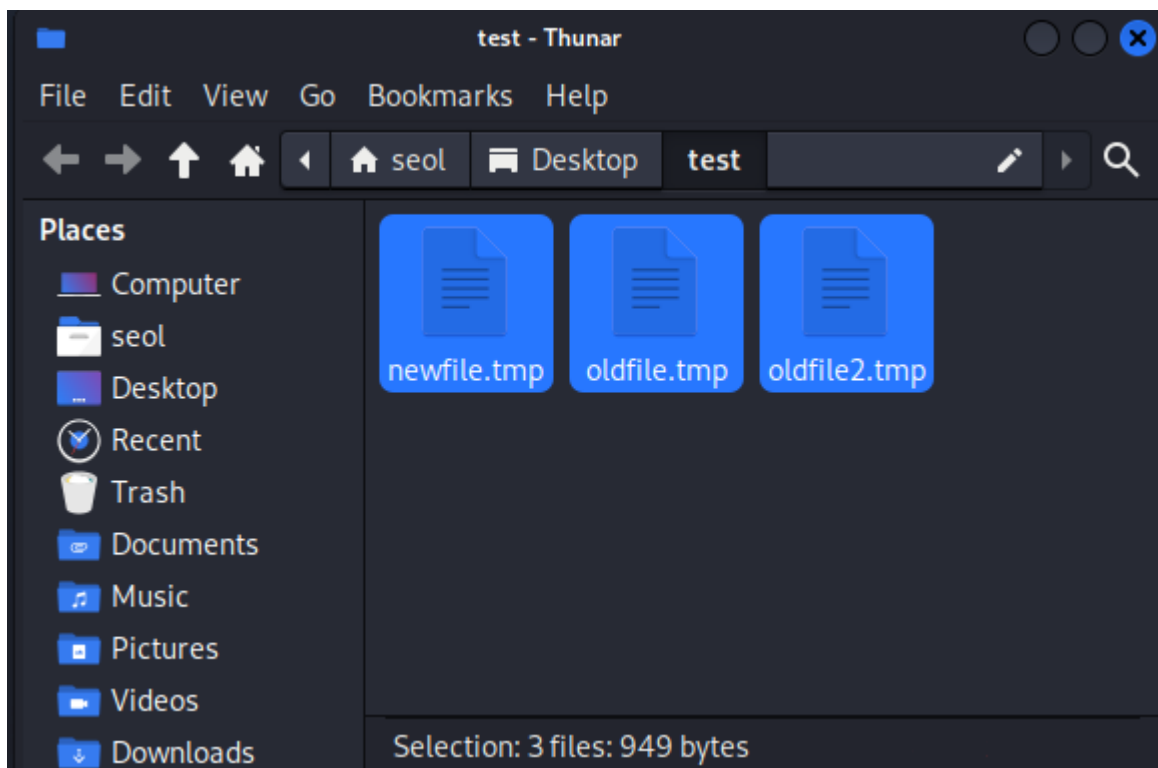
Creating variables inside the test tmp files...

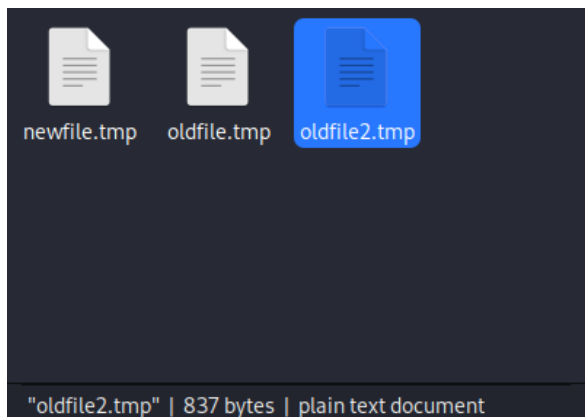
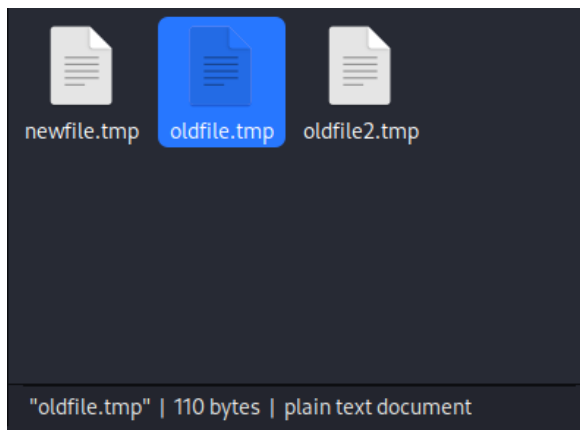
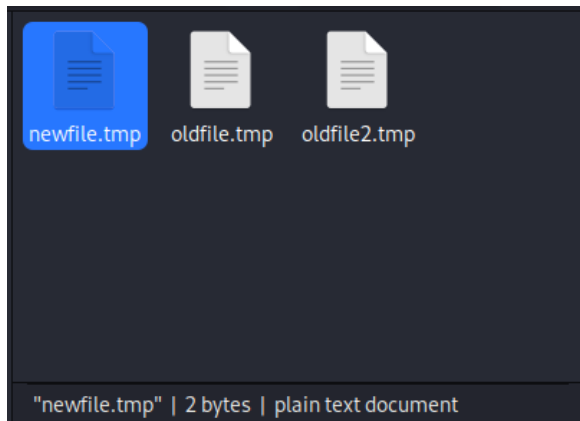
Created!

All processes Finished.

```

4. After the creation of the tmp files we double check the folder. A total of 3 files are displayed with 949 bytes each.





5. We can now run the cleanup program.
6. You just need to input the path of the directory that you want to clean.

```
(seol@seol)-[~/Desktop]
$ ./clean.sh
Input the Directory Path for cleaning: /home/seol/Desktop/test
Directory exists, Loading ...

Current Directory:
/home/seol/Desktop/test

Current Directory Disk Space:
16K      .

Found files
/home/seol/Desktop/test/newfile.tmp
/home/seol/Desktop/test/oldfile2.tmp
/home/seol/Desktop/test/oldfile.tmp

Deleting .tmp files older than 7 days
Loading ...

Total Files Deleted:
2

Files Deleted:
/home/seol/Desktop/test/oldfile2.tmp
/home/seol/Desktop/test/oldfile.tmp

Current Directory Disk Space:
8.0K     .

Disk Space Freed:
8.0K

Clean up Finished.
```

7. End (2:15 am)

