

John Schneiderhan Jessica Noel

I pledge my honor that I have abided by the Stevens Honor System.

```
Debian - OS SIT [Running] - Oracle VM VirtualBox
root@debian:/media/sf_shared/project-123456/project-123456# 
root@debian:/media/sf_shared/project-123456/project-123456# 
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root@debian:/media/sf_shared/project-123456/project-123456# 
root@debian:/media/sf_shared/project-123456/project-123456# 
root@debian:/media/sf_shared/project-123456/project-123456# 
root@debian:/media/sf_shared/project-123456/project-123456# ./fsx492 -image test/fsx492.img /tmp/use/
root@debian:/media/sf_shared/project-123456/project-123456# cd /tmp/use/
root@debian:/tmp/use# ls -l
total 2
drwxr-xr-x 1 student student 0 Jul 13 2012 dir1
drwxrwxrwx 1 501 dialout 0 Apr 8 2019 dir2
drwxrwxrwx 1 501 dialout 0 Apr 8 2019 dir3
-rwxrwxrwx 1 501 dialout 12 Apr 8 2019 test.1
-rwxrwxrwx 1 501 dialout 15 Apr 8 2019 test.2
-rwxrwxrwx 1 501 dialout 43 Apr 8 2019 test.random
root@debian:/tmp/use# ls -l dir1
total 1
drwxrwxrwx 1 501 dialout 0 Apr 8 2019 pathtest1
-rwxrwxrwx 1 501 dialout 12 Apr 11 2019 test.1
-rwxrwxrwx 1 501 dialout 12 Apr 8 2019 testcpy.1
root@debian:/tmp/use#
```

E1

```
Debian - OS SIT (Running) - Oracle VM VirtualBox
root@debian:/media/sf_shared/project-123456/project-123456#
root@debian:/media/sf_shared/project-123456/project-123456#
root@debian:/media/sf_shared/project-123456/project-123456# ./fsx492 -image test/fsx492.img /tmp/use/
root@debian:/media/sf_shared/project-123456/project-123456# cd /tmp/use/
root@debian:/tmp/use# ls -l
total 2
drwxr-xr-x 1 student student 0 Jul 13 2012 dir1
drwxrwxrwx 1 501 dialout 0 Apr 8 2019 dir2
drwxrwxrwx 1 501 dialout 0 Apr 8 2019 dir3
-rwxrwxrwx 1 501 dialout 12 Apr 8 2019 test.1
-rwxrwxrwx 1 501 dialout 15 Apr 8 2019 test.2
-rwxrwxrwx 1 501 dialout 43 Apr 8 2019 test.random
root@debian:/tmp/use# ls -l dir1
total 1
drwxrwxrwx 1 501 dialout 0 Apr 8 2019 pathtest1
-rwxrwxrwx 1 501 dialout 12 Apr 11 2019 test.1
-rwxrwxrwx 1 501 dialout 12 Apr 8 2019 testcpy.1
root@debian:/tmp/use# cd dir1
root@debian:/tmp/use/dir1# pwd
/tmp/use/dir1
root@debian:/tmp/use/dir1# cat test.1
root@debian:/tmp/use/dir1# mv test.1 foo
root@debian:/tmp/use/dir1# ls -l
total 1
-rwxrwxrwx 1 501 dialout 12 Apr 11 2019 foo
drwxrwxrwx 1 501 dialout 0 Apr 8 2019 pathtest1
-rwxrwxrwx 1 501 dialout 12 Apr 8 2019 testcpy.1
root@debian:/tmp/use/dir1# cp foo test.1
root@debian:/tmp/use/dir1# chmod 000 foo
root@debian:/tmp/use/dir1# ls -l
total 2
----- 1 501 dialout 12 Apr 11 2019 foo
drwxrwxrwx 1 501 dialout 0 Apr 8 2019 pathtest1
-rwxr-xr-x 1 root root 12 May 2 19:34 test.1
-rwxrwxrwx 1 501 dialout 12 Apr 8 2019 testcpy.1
root@debian:/tmp/use/dir1# _
```

E2

```
Debian - OS SIT (Running) - Oracle VM VirtualBox
root@debian:/tmp/use/dir1# pwd
/tmp/use/dir1
root@debian:/tmp/use/dir1# cat test.1
root@debian:/tmp/use/dir1# mv test.1 foo
root@debian:/tmp/use/dir1# ls -l
total 1
-rwxrwxrwx 1 501 dialout 12 Apr 11 2019 foo
drwxrwxrwx 1 501 dialout 0 Apr 8 2019 pathtest1
-rwxrwxrwx 1 501 dialout 12 Apr 8 2019 testcpy.1
root@debian:/tmp/use/dir1# cp foo test.1
root@debian:/tmp/use/dir1# chmod 000 foo
root@debian:/tmp/use/dir1# ls -l
total 2
----- 1 501 dialout 12 Apr 11 2019 foo
drwxrwxrwx 1 501 dialout 0 Apr 8 2019 pathtest1
-rwxr-xr-x 1 root root 12 May 2 19:34 test.1
-rwxrwxrwx 1 501 dialout 12 Apr 8 2019 testcpy.1
root@debian:/tmp/use/dir1# rm foo
root@debian:/tmp/use/dir1# mkdir foo
root@debian:/tmp/use/dir1# ls -l
total 1
drwxr-xr-x 1 root root 0 May 2 19:35 foo
drwxrwxrwx 1 501 dialout 0 Apr 8 2019 pathtest1
-rwxr-xr-x 1 root root 12 May 2 19:34 test.1
-rwxrwxrwx 1 501 dialout 12 Apr 8 2019 testcpy.1
root@debian:/tmp/use/dir1# ls -la foo
total 0
root@debian:/tmp/use/dir1# cd foo
root@debian:/tmp/use/dir1/foo# cd ..
root@debian:/tmp/use/dir1# rmdir foo
root@debian:/tmp/use/dir1# ls -l
total 1
drwxrwxrwx 1 501 dialout 0 Apr 8 2019 pathtest1
-rwxr-xr-x 1 root root 12 May 2 19:34 test.1
-rwxrwxrwx 1 501 dialout 12 Apr 8 2019 testcpy.1
root@debian:/tmp/use/dir1# cd ..
root@debian:/tmp/use#
```

E3

