

LINUX Lab 3

IF YOU HAVE NOT ALREADY DONE SO, YOU SHOULD READ & COMPLETE LINUX TUTORIAL 3 FIRST!

Practicing Intermediate Linux Commands

After successfully logging into Odin you should see a blank screen with some text and a blinking cursor.

You are now ready to start experimenting with some intermediate commands:

1. Make a subdirectory in your home directory for this lab:

```
mkdir linux_lab
```

2. Set the permissions on your directory so that you have full access, while group and world have no access:

```
chmod 700 linux_lab
```

3. Display the directory permissions for your directory:

```
ls -ld linux_lab
```

4. Copy junk.txt create in the previous lab into your newly created directory:

```
cp junk.txt linux_lab
```

5. Display the contents of the linux_lab directory with full details:

```
ls -l linux_lab
```

6. Change directories to the new folder:

```
cd linux_lab
```

7. Delete the copied junk.txt file from your linux_lab folder:

```
rm junk.txt
```

8. Change back to your home directory:

```
cd
```

9. Remove the linux_lab folder. this will only work if you have done the previous steps correctly:

```
rmdir linux_lab
```

10. Create a file with vim called hello.cpp in your home folder The file should contain the following:

```
#include <iostream>
using namespace std;

int main()
{
    cout << "Hello world!" << endl;
    return 0;
}
```

11. Set the permissions on hello.cpp to give you full permissions, give group read only, and world none:

```
chmod 740 hello.cpp
```

12. Compile hello.cpp into an executable called hello:

```
g++ hello.cpp -o hello
```

13. Run the hello executable:

```
./hello
```

14. Run the cat program in the background:

```
cat &
```

15. List all of your processes and find the PID of the cat process:

```
ps ux  
ps x  
ps -ef | grep <username>
```

16. Try to kill the cat process and see if it worked by using the ps command:

```
kill [-9] <PID>
```

17. Redirect the output of the ps -ef command into a file called file1.txt:

```
ps -ef > file1.txt
```

18. When you are done, make sure to log out of linux properly:

```
exit
```