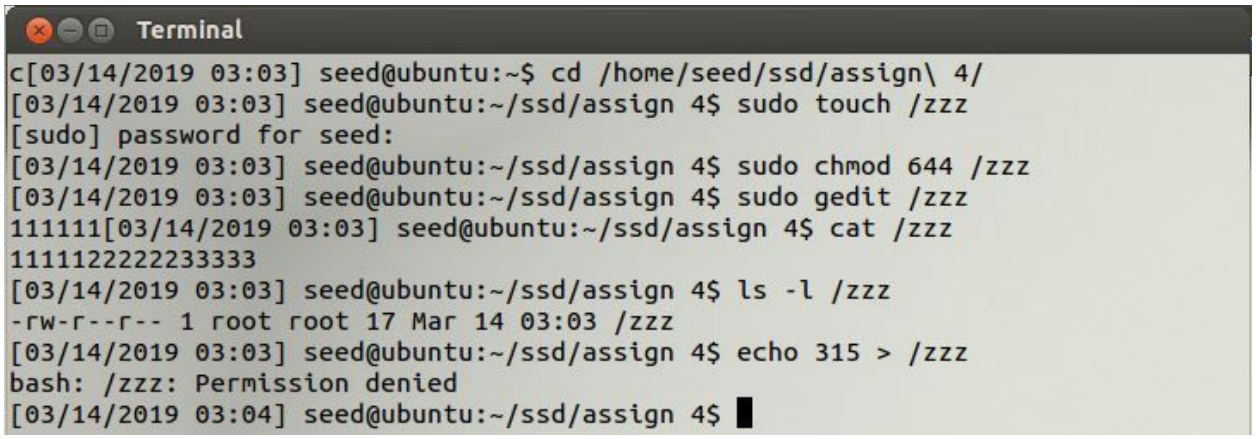
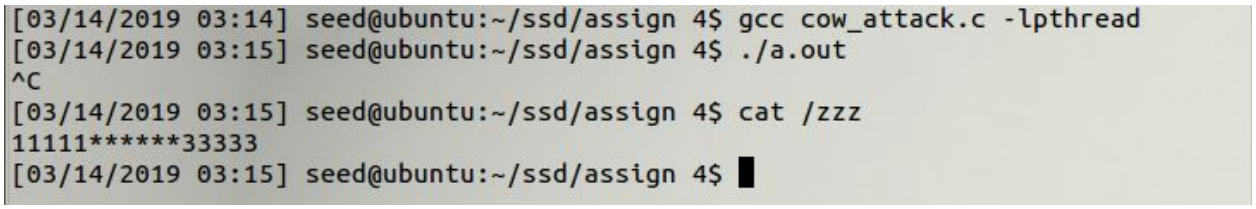
Ashutosh Mishra
1601CS06
Assignment 4

Task 1

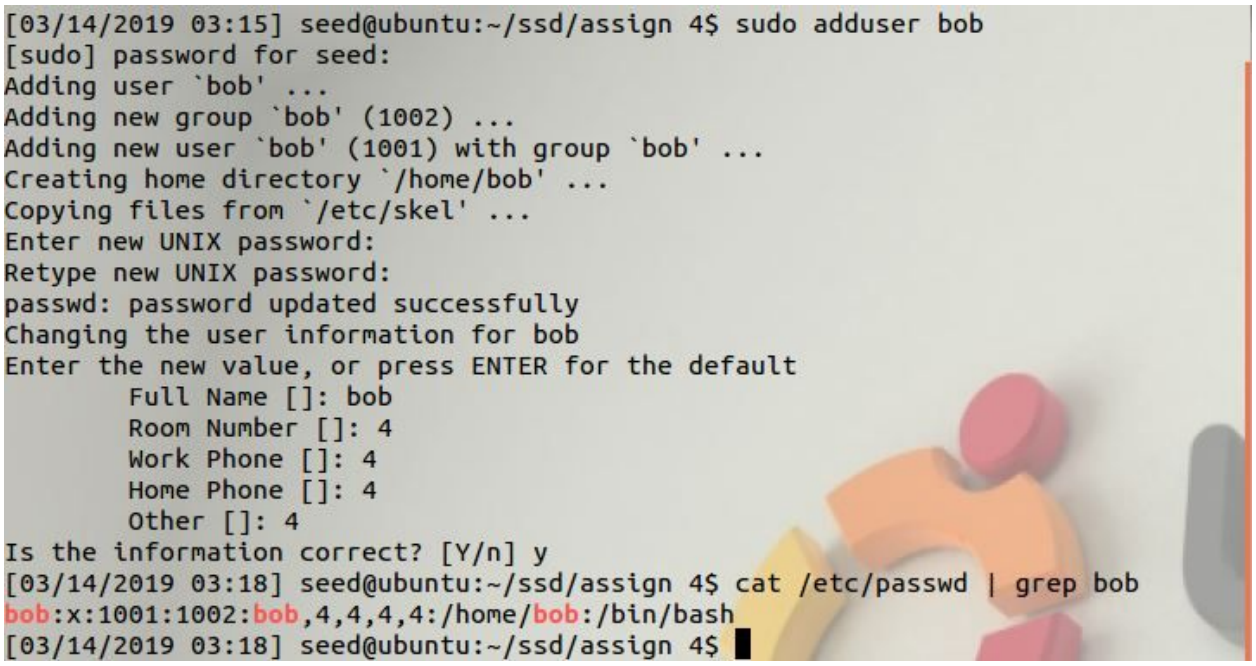


We have created a root owned file, and a normal user cannot modify it.



Next, we launched the cow_attack.c file. After letting it run for a few seconds, we checked the root owned file and found that it had indeed been modified.

Task 2

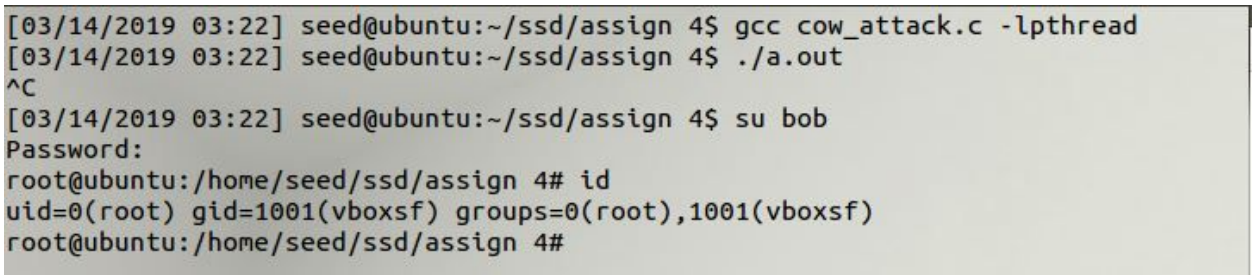


We have added a normal user “bob”.

We then modified the following lines in cow_attack.c :

```
int f=open("/etc/passwd", O_RDONLY);
char *position = strstr(map, "bob");
char *content= "bob:x:0000";
```

After running the modified file, we get the following result:



We have successfully transformed “bob” from a normal user into a root user!