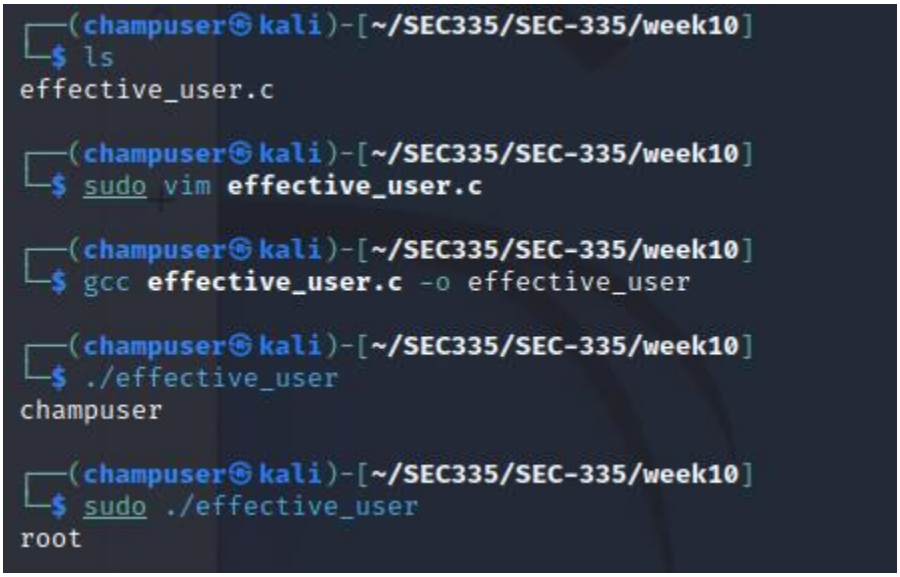
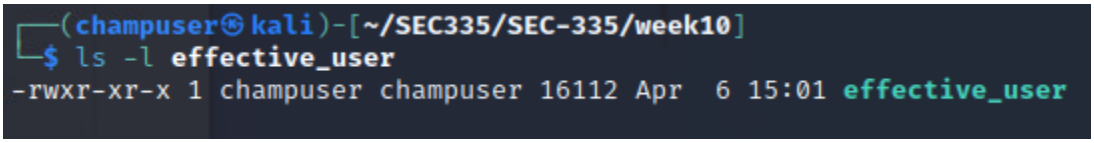
Deliverable 1. Using the code above, create a file called effective_user.c and compile and execute the file as a normal user and using sudo. Provide a screenshot similar to the one below.

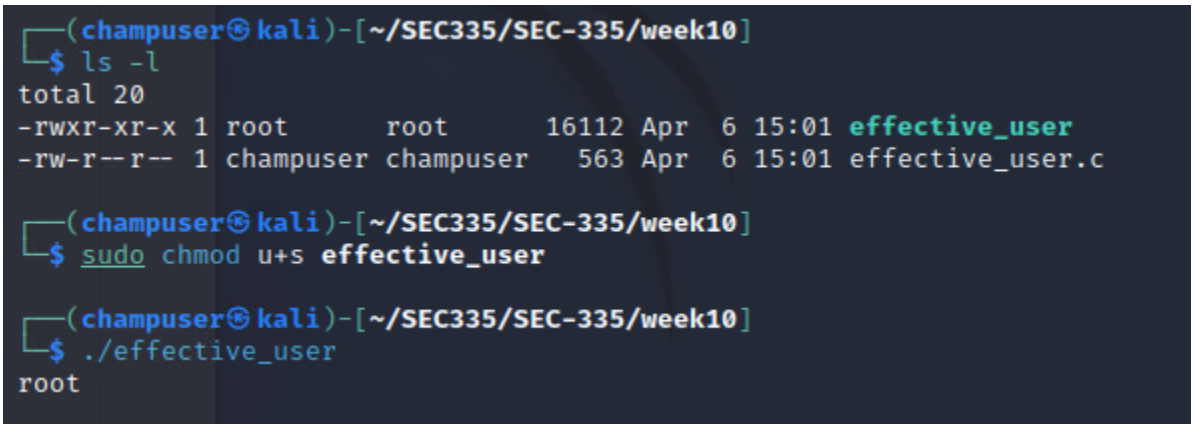


Deliverable 2. What are the octal (numeric) permissions of the effective_user program? Using ls -l you should be able to calculate these permissions, you can also use the "stat" program as a shortcut. Remember r=4,w=2, x=1, and "-" is a 0

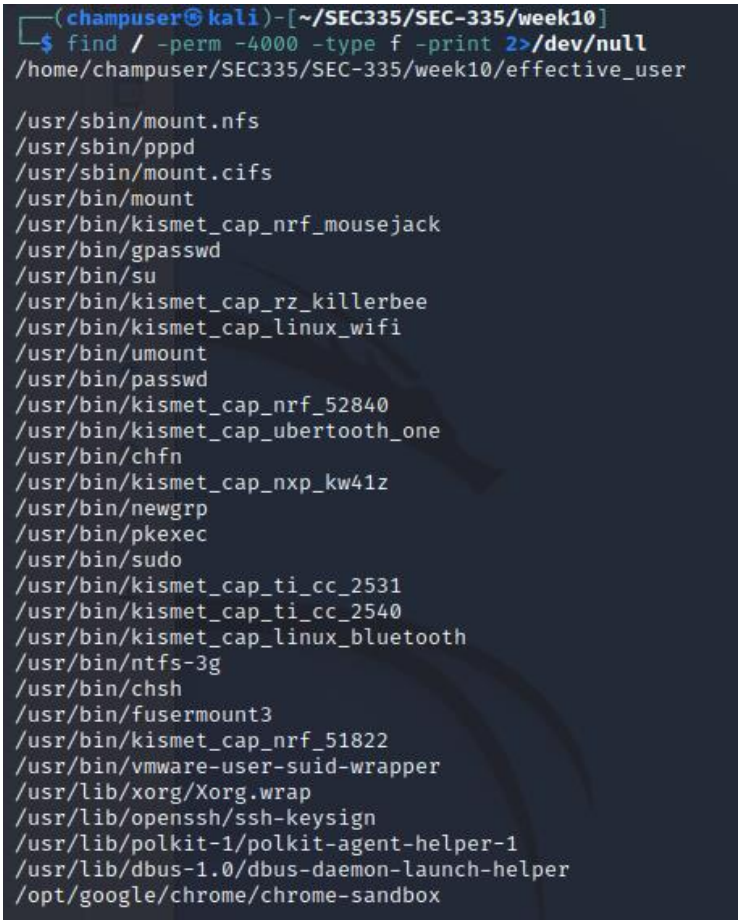


The numerical code is 755
Owner: 7 = 4(r)+2(w)+1(x)
Group:: 5 = 4(r)+1(x)
Others: : 5 = 4(r)+1(x)

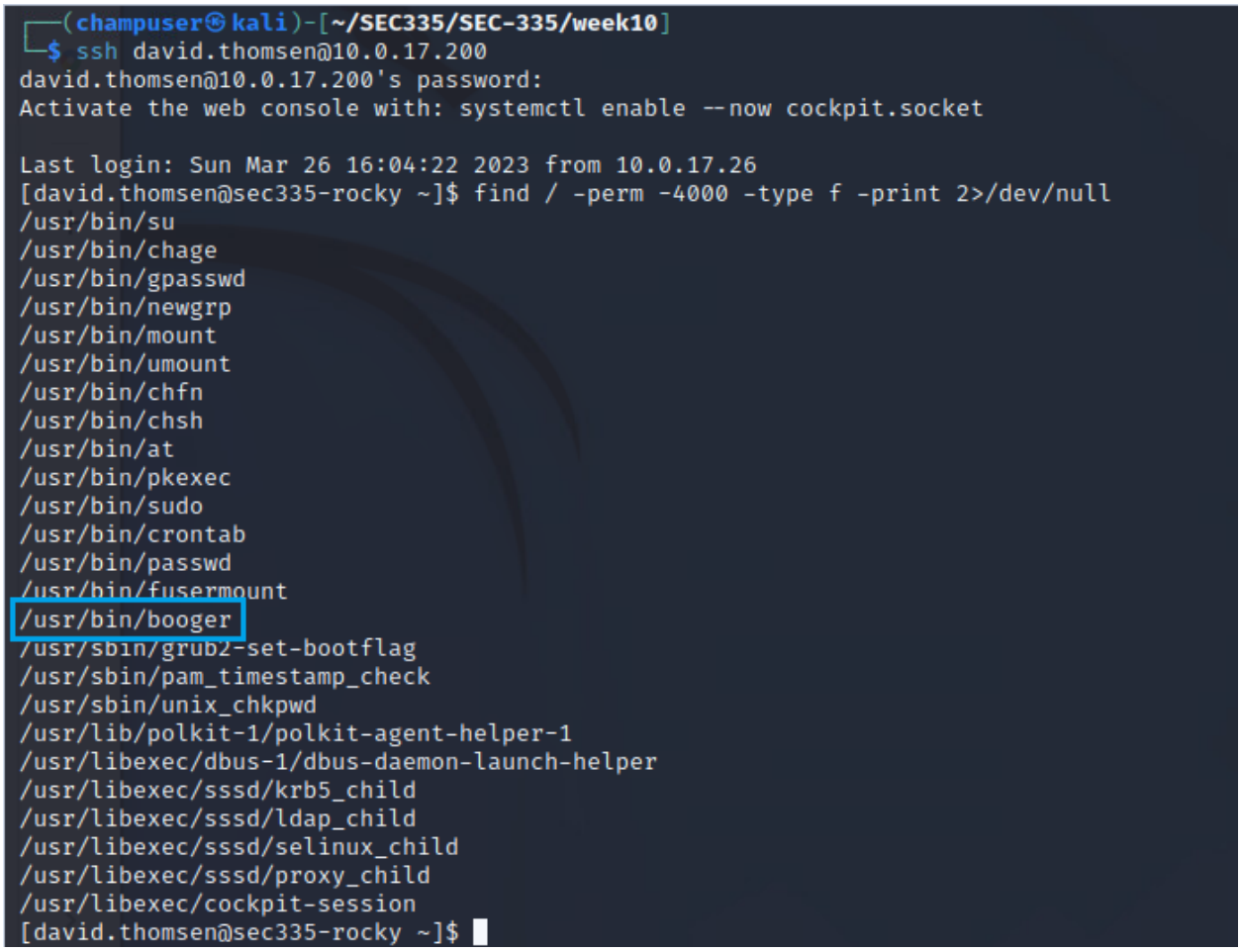
Deliverable 3. Figure out how to change the ownership of your c program executable such that the file is owned by user: root and group: root. Once you've done that, add the suid bit to the program (this is shown in the screenshot) and execute the program as a normal user. Provide a screenshot similar to the one below:



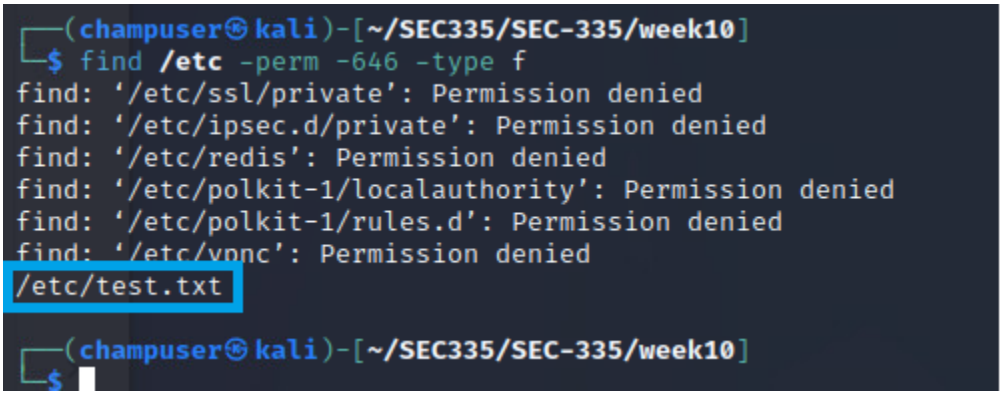
Deliverable 4. Hit the internet and find a means to search for suid programs across your kali system. Do so as a normal user as this is a privilege escalation technique you might use. Make sure to document this. You will need to deal with permissions errors by piping those to /dev/null. Provide a screenshot showing your command and listing similar to that below. Your own sudo program should be in the list.



Deliverable 5. A suid program has been hidden on rocky (10.0.17.200). Please hunt it down. Provide a screenshot that shows the command and file found. It will be obvious and the name will start with a 'b'.



Deliverable 6. Consider the following screenshot. This user created a file under /etc/ that is world writable. Were this file to be of any security relevance, this could be a problem. Create such a file, and figure out how to find it. Show your command.



Deliverable 7. A world writable file has been hidden on rocky. Please hunt it down. Provide a screenshot that shows the command and file found. It will start with an 's'. (note, the sys and proc directories will give you a lot of false positives)