

Lab 1 - Linux Command Line

Course & Instructor Info

Course Name: SWE 4504 - Software Security Lab

Instructor: Imtiaj Ahmed Chowdhury, Lecturer, CSE, IUT

NOTE: The contents of this lab has been produced based on material from **National Cybersecurity Training and Education Center (NCyTE)**, USA.

Objective

After successful completion of the lab, students will demonstrate proficiency in command line to perform simple operational tasks in the Linux operating systems.

Lab Tasks (complete within the lab)

For the tasks in the lab, you need to be able to explain to the instructor how you solved these.

Task 1

 **Marks: 15**

Download `The_Witcher_Blood_Of_Elves_Summary.txt` from Google Classroom. **Find the most frequent 5 capitalized words with their frequencies.** You can only use pipes and redirections in the terminal. You can use multiple commands.

Hint: `grep` and regular expressions might be your friend.

Expected Output:

```
bash
1      16 Ciri
2      12 Geralt
3       9 Yennefer
4       8 Rience
5       4 Triss
```

Task 2

🔥 Marks: 10

Head over to [Overthewire Bandit Site](#) and reach level 5.

Note: Write the executed commands somewhere because you'll need those for the Lab Assignment

Lab Assignment (complete before next lab and submit in Google Classroom)

🔥 Marks: 30

Reach **level 20** of [Overthewire Bandit](#).

Submission

A report showing the solution process. For each level (*including the ones you solved during lab*) you should include:

- Name of the level
- Screenshot of the executed commands to solve the current level. For example, if you had to run 5 commands to get to the solution then attach screenshot of all those commands. The `ssh` command to connect to a level should also be included.
- Password of the next level

Clearly mention your name and ID at the top of the report and submit a **pdf** file.

Filename of the report should be in the format **Lab1_ID.pdf**.