CSCI 400 Lab 0

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**Class Section: CSCI 400 02 [35583]**

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**Instructions**:

1. Set up an account at <https://pwn.college/>

**pwn.college username: Chris\_B\_Gonzalez**

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1. Go to the first Dojo: Getting Started <https://pwn.college/welcome/>
2. Click on the Using the Dojo module to get to these challenges: <https://pwn.college/welcome/welcome/>
3. Under Lectures and Reading, watch the video under Getting Started for a demo of the environment. (You don't need to complete the challenge that's shown in the demo for this intro lab.)
4. Complete the challenges listed on this page <https://pwn.college/welcome/welcome/> (The Getting Help challenge is experimental, so this not required as part of the lab, but you're welcome to check it out.

**Challenge 1: Using the VSCode Workspace**

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**To obtain the first flag, I had to begin the challenge using the Start button provided. Pressing the Start button initiated the challenge, where I was then prompted to click on the Workspace tab seen as seen in the image. This took me to the VSCode workspace, where I am then able to launch the terminal by clicking the = button on the left. The terminal began running and printed out the visual/flag below.**

**Challenge 2: Using the GUI DesktopA screenshot of a computer

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**To obtain this flag, I began the challenge using the Start button, which initiated the challenge. Next, I was instructed to click on the Desktop tab as seen in the image. The Desktop tab acts as a Virtual Machine in the sense that it functions like a sperate OS. From this desktop, I opened the terminal, and I was given the image/flag seen.**

**Challenge 3: Pasting into the DesktopA screenshot of a computer

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**To obtain this flag, I began the challenge and opened the terminal using the GUI Desktop. This challenge required me to copy a token from the challenge description and paste it into the clipboard provided by the platform. Once the token information was on the clipboard, I was able to paste it in the terminal, which granted me the flag.**

**Challenge 4: Restarting Challenges**

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Description automatically generated To obtain this flag, I began the challenged and opened the terminal using the GUI desktop. Initially, I was prompted to enter a password (which I did not know). I was instructed to guess and when my guess turned out to be wrong, the terminal revealed the answer and ended the challenge. I copied the correct password on the clipboard. Afterwards, I restarted the challenged and opened the terminal again. I pasted the password on the clipboard followed by the terminal, which then gave me the flag.**

**Challenge 5: Getting Help**

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**To obtain this flag, I started the challenge and opened the terminal. The terminal started and asked me for a password I did not know. Because of this, I was prompted to ask SENSAI for help. SENSAI is an LLM that knew the password. I asked SENSAI for the password, which turned out to be pwn-the-planet. I entered this in the terminal, and it gave me the flag.**

**Challenge 6: Challenge Programs**

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**To obtain this flag, I started the challenge and opened the terminal. The instructions stated files containing challenges exist in /challenge directory, so I had to get to this directory. Once I did, I was instructed to invoke the /challenge/solve program directly in the terminal. Once I entered the command, the flag was made available to me.**

**Challenge 7: The Flag File**

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**To obtain this flag, I must open the terminal and attempt to read the /flag file. However, the permission is initially denied as only the root user could read it. To overcome this, I had to run the /challenge/solve program which made /flag available. Finally, I used the cat command to read the file and it revealed the flag.**

**Challenge 8: Using Practice Mode**

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**To obtain this flag, I had to use Practice mode before beginning the official challenge. I opened the terminal there and use /challenge/solve to begin the practice. I was instructed to read /challenge/secret, but I was unable to due to permissions. Only the root user is allowed to see the contents, so I had to switch to the root user using sudo -i. Once I did, I used the cat command to look at the contents, which revealed a secret code I needed for the actual challenge. I copied it into the clipboard and started the challenge. When I opened the terminal for the official challenge, I was prompted to enter the secret, which was the code from the practice. I pasted it and it gave me the flag.**

**Challenge 9: Persistent Home Directories - One**

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**To obtain this flag, I needed to create a directory that will be used for this challenge and the next. The purpose is to show that any directory made in the GUI Desktop will remain there for future challenges and can be used to build notes. I opened the terminal and make a directory titled “leap” using the mkdir command. I was instructed to then copy the /challenge/secret file which was done using the cp command and move the contents to /home/hacker/leap/secret. Afterwords I restarted the /challenge/solve program which verified my directory and gave me the flag.**

**Challenge 10: Persistent Home Directories - Two**

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**To obtain this flag, I opened the terminal and started the /challenge/solve program. As mentioned in the previous challenge, this challenge reinforced the idea that any directory/files saved will remain there for future challenges. As seen in the image, the program verified that my directory and file still exist and proceeded to give me the flag.**