***Task 3: -*** *Complete the first 12 levels of Bandit and maintain write-ups*

* *Level 0: -*
* *Goal****:*** The goal of this level is for you to log into the game using SSH. The host to which you need to connect is **bandit.labs.overthewire.org**, on port 2220.
* *Code:* ssh [bandit0@bandit.labs.overthewire.org](mailto:bandit0@bandit.labs.overthewire.org) **-p 2220**
* We then enter the password which is given for level 0 moving on to level 1.
* *Inference:* **ssh** (SSH client) is a program for logging into a remote machine and for executing commands on a remote machine. It connects and logs into the specified *destination*, specified as [user@]hostname]
* *Level 0→1: -*
* *Goal****:*** The password for the next level is stored in a file called **readme** located in the home directory.
* *Used commands:*
* **ls -alps:** *Used to list all the files in the directory*
* **cat readme:** *Use to read the contents present in readme file*
* We then receive the password required for moving from level 0 *→* 1.
* *Level 1→2: -*
* *Goal****:*** The password for the next level is stored in a file called **-** located in the home directory
* *Used commands:*
* **ls -alps:** *Used to list all the files in the directory.*
* **cat ./- :** *Use to display the contents of the “–“ file name.*

* We then receive the password required for moving from level 1→ 2.
* *Level 2→3: -*
* *Goal****:*** The password for the next level is stored in a file called **spaces in this filename** located in the home directory
* *Used commands:*
* **ls -alps:** *Used to list all the files in the directory.*
* **cat spaces\ in\ this\ filename :** *Use to display the contents of the file whose name has spaces*

*in it.*

* We then receive the password required for moving from level 2→ 3.
* *Level 3→4: -*
* *Goal****:*** The password for the next level is stored in a hidden file in the **inhere** directory.
* *Used commands:*
* **ls -alps:** *Used to list all the files in the directory.*
* **cd inhere/ :** *Use to enter the inhere directory.*
* **ls -al:** *Used to list all the files(including hidden) in the inhere directory*
* **cat .hidden :** *Use to display the contents of the hidden file named ”.” in the inhere directory.*

* We then receive the password required for moving from level 3→ 4.
* *Level 4→5: -*
* *Goal****:*** The password for the next level is stored in the only human-readable file in the **inhere** directory.
* *Used commands:*
* **ls -alps:** *Used to list all the files in the directory.*
* **cd inhere/ :** *Use to enter the inhere directory.*
* **ls :** *Used to list all the files(excluding hidden) in the inhere directory.*
* **file ./\* :** *Gives the data type of all the files present in the current directory.*
* **cat <file name> :** *By entering the file name of file whose type is ascii text we get the contents of the file which has human-readable password.*

* We then receive the password required for moving from level 4→ 5.
* *Level 5→6: -*
* *Goal****:*** The password for the next level is stored in a file somewhere under the **inhere** directory and has all of the following properties: i)Human Readable; ii)1033 bytes in size; iii)not executable.
* *Used commands:*
* **ls -alps:** *Used to list all the files in the directory.*
* **cd inhere/ :** *Use to enter the inhere directory.*
* **find -size 1033c -readable ! -executable :** *Gives the location and name of the file fulfilling the said properties.*
* **cat <file name> :** *We specify the path and file name received to get the password for next level.*

* We then receive the password required for moving from level 5→6.
* *Level 6→7: -*
* *Goal****:*** The password for the next level is stored somewhere on the server and has all of the following properties: i) owned by user bandit7; ii) owned by group bandit6; iii) 33 bytes in size.
* *Used commands:*
* **cd /:** *Jumps to the root directory as we need to search the entire Linux system..*
* **find -size 33c -user bandit7 -group bandit6 :** *Gives the location and name of the file fulfilling the said properties.*
* **cat <file name> :** *We specify the path and file name received to get the password for next level.*

* We then receive the password required for moving from level 6→7.