


Bandit Level 6 → Level 7

SSH Parameters	
Host:	Bandit.labs.overthewire.org
Port:	2220

Website URLs	
Level 6 → Level 7	OverTheWire: Level Goal: Bandit Level 6 → Level 7
Level 7 → Level 8	OverTheWire: Level Goal: Bandit Level 7 → Level 8

Passwords		
Level	User Name	Password
Level 6 → Level 7	bandit6	P4L4vucdmLnM8l7VI7jG1ApGSfjYKqJU
Level 7 → Level 8	bandit7	z7WtoNQU2XfjmMtWA8u5rN4vzqu4v99S



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[SSH Information](#)
Host: bandit.labs.overthewire.org
Port: 2220

Bandit Level 6 → Level 7

Level Goal

The password for the next level is stored **somewhere on the server** and has all of the following properties:

- owned by user bandit7
- owned by group bandit6
- 33 bytes in size

Commands you may need to solve this level

ls, cd, cat, file, du, find, grep

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```
bandit6@bandit:~$ #####
bandit6@bandit:~$ #Bandit Level 6 - Solution Set
bandit6@bandit:~$ #####
bandit6@bandit:~$ #Confirm User ID and Level - Level 6
bandit6@bandit:~$ #####
bandit6@bandit:~$ id && whoami
uid=11006(bandit6) gid=11006(bandit6) groups=11006(bandit6)
bandit6
bandit6@bandit:~$ #Output current directory
bandit6@bandit:~$ #####
bandit6@bandit:~$ pwd
/home/bandit6
bandit6@bandit:~$
```

```

bandit6@bandit:~$ #####
bandit6@bandit:~$ #Methodology
bandit6@bandit:~$ #####
bandit6@bandit:~$ #To solve this level we utilize the find command and invoke options to search on owner, group and file size.
bandit6@bandit:~$ #Since the password file can be anywhere we migrate to, and search from, the root directory recursively
bandit6@bandit:~$ #We do this via the cd command to migrate to root [directory]
bandit6@bandit:~$ cd /
bandit6@bandit:/$ #To verify we are in root [/] we do so by execution of the pwd command
bandit6@bandit:/$ pwd
bandit6@bandit:/$ /
bandit6@bandit:/$

```

```

bandit6@bandit:/$ #Command: find . -user bandit7 -group bandit6 -size 33c
bandit6@bandit:/$ #Command Anatomy: The period (.) signifies a recursive search of the root directory (the entire computer)
bandit6@bandit:/$ # the -user option/switch pulls those records where the owner/user is bandit7
bandit6@bandit:/$ # the -group option/switch pulls those records where the group is bandit6
bandit6@bandit:/$ # the -size option/switch pulls those records where the size is 33 bytes. the c denotes a metric of bytes
bandit6@bandit:/$
bandit6@bandit:/$ find -user bandit7 -group bandit6 -size 33c
find: './var/log': Permission denied
find: './var/crash': Permission denied
find: './var/spool/rsyslog': Permission denied
find: './var/spool/bandit24': Permission denied
find: './var/spool/cron/crontabs': Permission denied
find: './var/tmp': Permission denied
find: './var/lib/polkit-1': Permission denied
./var/lib/dpkg/info/bandit7.password
find: './var/lib/chrony': Permission denied
find: './var/lib/apt/lists/partial': Permission denied
find: './var/lib/amazon': Permission denied
find: './var/lib/update-notifier/package-data-downloads/partial': Permission denied
find: './var/lib/snapd/void': Permission denied
find: './var/lib/snapd/cookie': Permission denied
find: './var/lib/ubuntu-advantage/apt-esm/var/lib/apt/lists/partial': Permission denied
find: './var/lib/private': Permission denied

```

```

bandit6@bandit:/$ #Much of the output, from the find command above, was errors (permission denied, etc.)
bandit6@bandit:/$ #Linux commands return two types of output - standard output and standard error
bandit6@bandit:/$ #An example of standard error are lines ending with Permission Denied
bandit6@bandit:/$ #To distill standard output from standard error we redirect standard to /dev/null
bandit6@bandit:/$ #Linux assigns standard output the number 1 and standard error the number 2
bandit6@bandit:/$ #As such, we will append the find statement with the redirect of 2>/dev/null
bandit6@bandit:/$ #This redirect sends standard errors to /dev/null which disappears anything sent to it.
bandit6@bandit:/$
bandit6@bandit:/$ #The revised find command is:
bandit6@bandit:/$
bandit6@bandit:/$ find -user bandit7 -group bandit6 -size 33c 2>/dev/null
./var/lib/dpkg/info/bandit7.password
bandit6@bandit:/$
bandit6@bandit:/$ #The above command outputs the full file path/file containing the Level 7 password
bandit6@bandit:/$ #To automate reading of this file we nest the above find command within the cat command.
bandit6@bandit:/$ #First the find command is executed, outputting the file path, and this is read by cat.
bandit6@bandit:/$
bandit6@bandit:/$ cat $(find -user bandit7 -group bandit6 -size 33c 2>/dev/null)
z7WtoNQU2XfjmMtWA8u5rN4vzqu4v99S

```

Level 7 → Level 8 Password

z7WtoNQU2XfjmMtWA8u5rN4vzqu4v99S

