Introduction.

In this assignment, you'll find a detailed journey through Bandit levels 0 to 20. I've included screenshots and simple explanations for each level, showing how each task was completed. This guide highlights the steps and commands used to solve the challenges, making it easy to understand the problem-solving process at every stage.

Level 0 - 1



Note: using **cat** command to read the file.

Level 1 - 2



Note:

Using the command **cat** - does not return anything. So, we add the path and write (**cat** ./-).

<u>Level 2 - 3</u>



Note:

Using \ for each space to indicate that all of it belongs to one file.

Backslash is an escape.

Level 3 - 4

```
bandit3@bandit: ~/inhere
 File Actions Edit View Help
bandit3@bandit:~$ ls
bandit3@bandit:~$ cd inhere
bandit3@bandit:~/inhere$ ls -al
total 12
drwxr-xr-x 2 root root 4096 Jul 17 15:57 .
drwxr-xr-x 3 root root 4096 Jul 17 15:57 ..
-rw-r—— 1 bandit4 bandit3 33 Jul 17 15:57 ... Hiding-From-You
bandit3@bandit:~/inhere$ cat ... Hiding-From-You
2WmrDFRmJIq3IPxneAaMGhap0pFhF3NJ
bandit3@bandit:~/inhere$
```

Note:

Using -al option for Is command. It shows all the hidden files.

After finding the file read it with **cat** command.

Level 4 - 5

```
bandit4@bandit: ~/inhere
File Actions Edit View Help
bandit4@bandit:~$ ls
bandit4@bandit:~$ cd inhere
bandit4@bandit:~/inhere$ ls
-file00 -file01 -file02 -file03 -file04 -file05 -file06 -file07 -file08 -file09
bandit4@bandit:~/inhere$ file ./-*
./-file00: data
./-file01: data
./-file02: data
./-file03: data
./-file04: data
./-file05: data
./-file06: data
./-file07: ASCII text
./-file08: data
./-file09: data
bandit4@bandit:~/inhere$ cat ./-file07
4oQYVPkxZOOE005pTW81FB8j8_xXGUQw
bandit4@bandit:~/inhere$
```

Note:

The **file** command is used for finding the file type of a file.

After moving to the directory, we should find the file type of each file. So, we use **file** ./-* to find the all file starting with ./- .

Level 5 - 6

```
bandit5@bandit: ~/inhere
File Actions Edit View Help
bandit5@bandit:~$ ls
inhere
bandit5@bandit:~$ cd inhere
bandit5@bandit:~/inhere$ ls
maybehere00 maybehere03 maybehere06 maybehere09 maybehere12 maybehere15 maybehere18 maybehere01 maybehere04 maybehere07 maybehere10 maybehere13 maybehere13 maybehere19 maybehere14 maybehere14 maybehere17 maybehere17
bandit5@bandit:~/inhere$ find -readable -size 1033c -not -executable
./maybehere07/.file2
bandit5@bandit:~/inhere$ cat ./maybehere07/.file2
HWasnPhtq9AVKe0dmk45nxy20cvUa6EG
                                                                                              bandit5@bandit:~/inhere
$
```

Note:

We use **find** command to find the file with given properties.

It looks for files that can be read but not executed and are exactly 1033 bytes in size.

Level 6 – 7

```
bandit6@bandit: ~
                           File Actions Edit View Help
               bandit6abandit:-$ find / -user bandit7 -group bandit6 -size 33c find: '/sys/kernel/tracing': Permission denied find: '/sys/kernel/tracing': Permission denied find: '/sys/fs/pstore': Permission denied find: '/sys/fs/pstore': Permission denied find: '/snap': Permission denied find: '/run/lock/lvm': Permission denied find: '/run/systemd/inaccessible/dir': Permission denied find: '/run/systemd/propagate/systemd-udevd.service': Permission denied find: '/run/systemd/propagate/systemd-resolved.service': Permission denied find: '/run/systemd/propagate/systemd-networkd.service': Permission denied find: '/run/systemd/propagate/systemd-networkd.service': Permission denied find: '/run/systemd/propagate/systemd-networkd.service': Permission denied
find: '/run/systemd/propagate/systemd-udevd.service': Permission denied find: '/run/systemd/propagate/systemd-networkd.service': Permission denied find: '/run/systemd/propagate/systemd-networkd.service': Permission denied find: '/run/systemd/propagate/irqbalance.service': Permission denied find: '/run/systemd/propagate/chrony.service': Permission denied find: '/run/systemd/propagate/polkit.service': Permission denied find: '/run/systemd/propagate/polkit.service': Permission denied find: '/run/systemd/propagate/fwupd.service': Permission denied find: '/run/systemd/propagate/fwupd.service': Permission denied find: '/run/run/ermission denied find: '/run/run/ermission denied find: '/run/run/ermission denied find: '/run/screen/s-bandit22': Permission denied find: '/run/screen/s-bandit22': Permission denied find: '/run/screen/s-bandit21': Permission denied find: '/run/screen/s-bandit21': Permission denied find: '/run/screen/s-bandit21': Permission denied find: '/run/screen/s-bandit21': Permission denied find: '/run/screen/s-bandit24': Permission denied find: '/run/screen/s-bandit12': Permission denied find: '/run/screen/s-bandit110': Permission denied find: '/run/screen/s-bandit110': Permission denied find: '/run/screen/s-bandit15': Permission denied find: '/run/screen/s-bandit15': Permission denied find: '/run/screen/s-bandit15': Permission denied find: '/run/screen/s-bandit3': Permissio
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   Acti
```

Note:

The find command looks for files that has user as bandit7 group as bandit6 and 33 bytes file.

Level 6 – 7

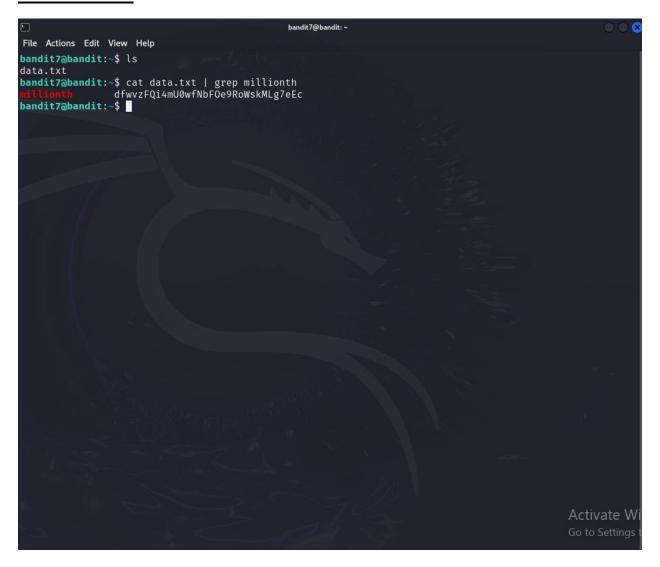
```
bandit6@bandit: ~
File Actions Edit View Help
find: '/etc/multipath': Permission denied
find: '/etc/sudoers.d': Permission denied
find: '/etc/credstore.encrypted': Permission denied
find: '/etc/ssl/private': Permission denied
find: '/etc/credstore': Permission denied
find: '/etc/xinetd.d': Permission denied
find: '/etc/polkit-1/rules.d': Permission denied
find: '/root': Permission denied find: '/tmp': Permission denied
find: '/lost+found': Permission denied
find: '/dev/shm': Permission denied
find: '/dev/mqueue': Permission denied
find: '/var/spool/bandit24': Permission denied
find: '/var/spool/rsyslog': Permission denied
find: '/var/spool/rsystog . Permission denied find: '/var/spool/cron/crontabs': Permission denied find: '/var/lib/udisks2': Permission denied
/var/lib/dpkg/info/bandit7.password
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
find: '/var/lib/update-notifier/package-data-downloads/partial': Permission denied
find: '/var/lib/apadate motries.'/paraga
find: '/var/lib/amazon': Permission denied
find: '/var/lib/apt/lists/partial': Permission denied
find: '/var/lib/polkit-1': Permission denied
find: '/var/log/unattended-upgrades': Permission denied find: '/var/log/private': Permission denied
find: '/var/tog/private : retmission denied
find: '/var/log/amazon': Permission denied
find: '/var/tog/chrony': Permission denied
find: '/var/tmp': Permission denied
find: '/var/cache/private': Permission denied
find: '/var/cache/ldconfig': Permission denied
find: '/var/cache/pollinate': Permission denied
find: '/var/cache/apt/archives/partial': Permission denied
find: '/var/cache/apparmor/baad73a1.0': Permission denied find: '/var/cache/apparmor/2425d902.0': Permission denied
bandit6@bandit:~$ cat /var/lib/dpkg/info/bandit7.password
morbNTDkSW6jIlUc0ymOdMaLnOlFVAaj
bandit6@bandit:~$
                                                                                                                                                 Acti
```

Note:

Every file is showing permission denied except one file. we should find it manually and read it.



<u>Level 7 – 8</u>



Note:

Command grep helps you find specific words or patterns in files.

We can use **grep** to find the password because it is on the same line as the word 'millionth'.

"|" this symbol tells what should output do.

Level 8 - 9

```
bandit8@bandit: ~
File Actions Edit View Help
bandit8@bandit:~$ ls
data.txt
bandit8@bandit:~$ cat data.txt | sort | uniq -c
     10 0KCctkqCfY7BIOWqolXsHDaboXVTKZ49
     10 1SKCEfQ151hW0x9JkeIAm0QdXiC813h1
     10 3hHLofjM7m3sdyiKJF5QsMqvEIfFh5b1
     10 3hW8tLnDV8acjhTQi44CKXEzHsJb3sqz
     10 3nUXvAjKo7yu6fYykYu7nGGKDMuNMWZf
     10 42gjuz5hdLĺItNwdJYsDRpkbbvoEYiWK
     1 4CKMh1JI91bUIZZPXDqGanal4xvAg0JM
     10 5g2sV4OokwqDv29Pfo6C7twjKcOk4WQV
     10 5YlL2xxyEUqV6tF0P6NoHt8L0Y2EGEc0
     10 6lMDNhQjlOoCOZ5F8ULK2g0uT0rCdnoQ
     10 6z7GGjobj2JASCjNYtOoavrTPCA1GVLc
     10 7f32a50fHRuHaW6lD7l5swMZjK5dKH0t
     10 8H8AWnIimy3xpF9RY7wkOpBxFLK7OdHm
     10 9fTezZmzh16K7OLBunAd3k0Mor9RIsDv
     10 AiNdScFDXFSBnLNzveDQHAENckqrrJsk
     10 B5mH15Q1FvDMnzOQdREdTRGHtHU6mYqc
     10 BNZFkNcXh3nSE1dEqqBYZKiDAsJj7W4K
     10 bsi00×cFo9wdE7NAbAd12ZikwMzHfmZa
     10 bT4i2z3wfpWTwImrUrBUzAzqN7MYviOU
     10 BTuibb63I0yqDgkVyVbu0X8Ma5j4f2ki
     10 bWRXANhoA9ckBDYCPIzU80C23Iwj0NAz
     10 bziGsgFgtBJS2eEiYqWztHPs4ysYaBeP
10 CJDmZTjXG6TosJ6YFPQ3BhefqB0zzPCq
     10 cJDU7Zp88KXORADTXYgR6sQOKceHRxYn
     10 CkhRsGEr50lPJm0BiSzPUwFLcuaiENBY
     10 cO9lpNeUyU9T4FPNVvaejCiUejPTSzlw
     10 cVw919gMWBNtrI1oQqEfRGTZGjGUFtCu
     10 d2rlG6lAvhW0TXFaER051wqQ3Cb7gyLU
     10 d77bGY1DlZPKdkIvij7EqKy51b5olgiW
     10 DCMmVLsNG2jhnggB59DfFqVH1Yqe3TKr
     10 dLS3M0umsdFIkQNAxp10x6UE09hXcmTg
     10 dW9Vv1sbgSMbKqstgICWbwbZSWyczGrK
10 DWBlXSfkBJPNCVO92M9hWSzpyIH8WVXr
     10 dXmpp5K2sMrKsbGjqoS5EE4jrBaP0kdF
     10 EkIk0LInZr2E0gdW8Ulk0vCK3Ys6xqjI
     10 ekTd8FrXagu5mb8JSGz3ILUGoMy53srx
                                                                                                   Activate Wii
     10 fA9kkjNN2w5ucHzehI7KL2eOWwGYu68y
     10 fcIDEŔLIVl2YN3ZoJJz55LgjWYqGV4EQ
     10 fRKPp1s1s9Db7GoQRgcLtgaohzV7ym0w
```

Note:

This command reads data.txt, sorts the lines in ascending order, and then counts and shows unique lines with their frequency. It helps summarize repeated entries in the file.

Password repeated only once.

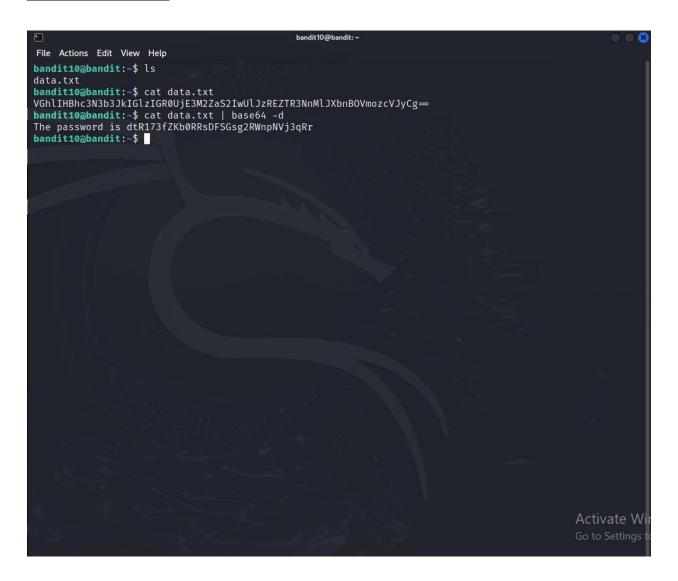
<u>Level 9 – 10</u>

```
bandit9@bandit: ~
File Actions Edit View Help
bandit9@bandit:~$ ls
data.txt
bandit9@bandit:~$ cat data.txt | strings | grep =
aA"f
\a!;
PWAF=1
              = the
         M),\}=
2Y6=
G';?e
            passwordf
            isc
*=N6
m=</
E=Bty
"M1
            FGUW5ilLVJrxX9kMYMmlN4MgbpfMiqey
!8=u84$
bandit9@bandit:~$
```

Note:

This command filters out readable text, and then looks for lines with =. It helps identify specific patterns within the file.

Level 10 – 11

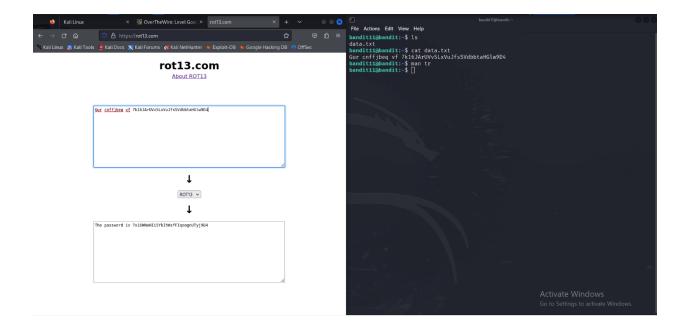


Note:

This command decodes its Base64 content and displays the result. It's useful for converting encoded data back into its original form.

<u>Level 11 – 12</u>

Note: ROT13 decoding shifts letters 13 places in the alphabet, reversing the encoding.



Level 12 – 13

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```
38 tar -xf data4.bin
39 ls
40 file data5.bin
41 tar -xf data5.bin
42 ls
43 file data6.bin data6.bin.bz2
44 mv data6.bin data6.bin.bz2
45 bzip -d data6.bin.bz2
46 bzip2 -d data6.bin.bz2
47 ls
48 file data6.bin
49 tar -xf data6.bin
50 ls
51 file data6.bin
52 mv data6.bin data9.bin.gz
53 gunzip data9.bin.gz
53 file data8.bin
56 cat data9.bin
```

Note:

- 1. Creating directory in /tmp and moving file.
- 2. Reverting hexdump of the file using xxd.
- 3. Repeatedly decompress the file using gunzip for gzip file and bzip2 -d for bz2 file.
- 4. After finding tar file we should extract it. -xf (extract file).
- 5. Repeat it until finding ASCII TEXT file.

Level 13 – 14

Note:

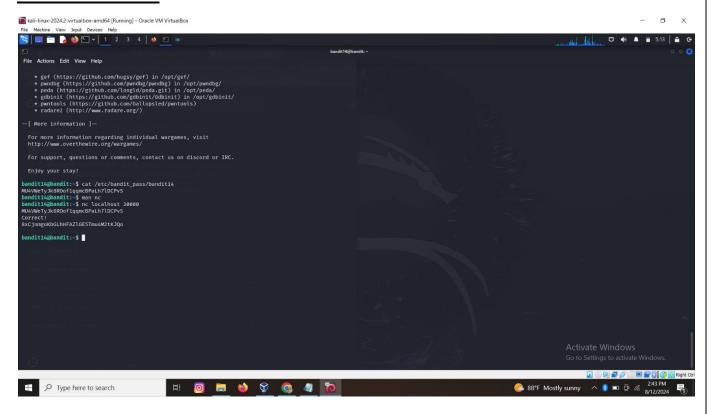
Scp command mean secure file copy.

This command securely copies the file sshkey.private from a remote server to our local machine. It connects to the server on port 2220 using scp, which is a secure file transfer protocol.

After saving the file we can move into the next level with that private key file.

Option -i with ssh command is used for private key.

<u>Level 14 – 15</u>



Note:

Reading the current password in /etc/bandit_pass/bandit14. This **nc** command connects to a local server on port 30000. It allows us to read and write data over a network connection. we need to submit the password to port 30000 on localhost.

Level 15 – 16

```
bandit15@bandit: ~
File Actions Edit View Help
bandit15@bandit:~$ openssl s_client -connect localhost:30001
CONNECTED(00000003)
Can't use SSL_get_servername
depth=0 CN = SnakeOil
verify error:num=18:self-signed certificate
verify return:1
depth=0 CN = SnakeOil
verify return:1
Certificate chain
 0 s:CN = SnakeOil
   i:CN = SnakeOil
   a:PKEY: rsaEncryption, 4096 (bit); sigalg: RSA-SHA256
   v:NotBefore: Jun 10 03:59:50 2024 GMT; NotAfter: Jun 8 03:59:50 2034 GMT
Server certificate
    -BEGIN CERTIFICATE-
MIIFBzCCAu+gAwIBAgIUBLz7DBxA0IfojaL/WaJzE6Sbz7cwDQYJKoZIhvcNAQEL
BQAwEzERMA8GA1UEAwwIU25ha2VPaWwwHhcNMjQwNjEwMDM10TUwWhcNMzQwNjA4
MDM10TUwWjATMREwDwYDVQQDDAhTbmFrZU9pbDCCAiIwDQYJKoZIhvcNAQEBBQAD
ggIPADCCAgoCggIBANI+P5QXm9Bj21FIPsQqbqZRb5XmSZZJYaam7EIJ16Fxedf+
jXAv4d/FVqiEM4BuSNsNMeBMx2Gq0lAfN33h+RMTjRoMb8yBsZsC063MLfXCk4p+
09gtGP7BS6Iy5XdmfY/fPHvA3JDEScdlDDmd6Lsbdwhv93Q8M6P0V09sv4HuS4t/
jEjr+NhE+Bjr/wDbyg7GL71BP1WPZpQnRE4OzoSrt5+bZVLvODWUFwinB0fLaGRk
GmI0r5EUOUd7HpYvoIQbiNlePGfPpHRKnmdXTTEZEoxeWWAaM1VhPGqfrB/Pnca+
vAJX7iBOb3kHinmfVOScsG/YAUR94wSELeY+UlEWJaELVUntrJ5HeRDiTChiVQ++
wnnjNbepaW6shopybUF3XXfhIb4NvwLWpvoKFXVtcVjlOujF0snVvpE+MRT0wacy
tHtjZs7Ao7GYxDz6H8AdBLKJW67uQon37a4MI260ADFMS+2vEAbNSFP+f6ii5mrB
18cY64ZaF6oU8bjGK7BArDx56bRc3WFyuBIGWAFHEuB948BcshXY7baf5jjzPmgz
mq1zdRthQB31MOM2ii6vuTkheAvKfFf+llH4M9SnES4NSF2hj9NnHga9V08wfhYc
x0W6qu+S8HUdVF+V23yTvUNgz4Q+UoGs4sHSDEsIBFqNvInnpUmtNgcR2L5PAgMB
AAGjUzBRMB0GA1UdDgQWBBTPo8kfze4P9EgxNuyk7+xDGFtAYzAfBgNVHSMEGDAW
gBTPo8kfze4P9EgxNuyk7+xDGFtAYzAPBgNVHRMBAf8EBTADAQH/MA0GCSqGSIb3
DQEBCwUAA4ICAQAKHomtmcGqyiLnhziLe97Mq2+Sul5QgYVwfx/KY0Xxv2T8ZmcR
Ae9XFhZT4jsAOUDK10Xx9aZgDGJHJLNEVTe9zWv10NFfNxEBxQgP7hhmDBWdtj6d
taqEW/Jp06X+08BtnYK9NZsvDg2YRcvOHConeMjwvEL7tQK0m+GVyQfLYg6jnrhx
egH+abucTKxabFcWSE+Vk0uJYMqcbXvB4WNKz9vj4V5Hn7/DN4xIjFko+nREw6Oa
/AUFjNnO/FPjap+d68H1LdzMH3PSs+yjGid+6Zx9FCnt9qZydW13Miqg3nDnODXw
+Z682mQFjVlGPCA5ZOQbyMKY4tNazG2n8qy2famQT3+jF8Lb6a4NGbnpeWnLMkIu
jWLWIkA9MlbdNXuajiPNVyYIK9gdoBzbfaKwoOfSsLxEqlf8rio1GGcEV5Hlz5S2
txwI0×dW9MWeGWoiLbZSbRJH4TIBFFtoBG0LoEJi0C+UPwS8CDngJB4TyrZqEld3
rH87W+Et1t/Nepoc/Eoaux9PFp5VPXP+qwQGmhir/hv7OsgBhrkYuhkjxZ8+1uk7
tUWC/XM0mpLoxsq6vVl3AJaJe1ivdA9xLytsuG4iv02Juc593HXYR8yOpow0Eq2T
U5EyeuFg5RXYwAPi7ykw1PW7zAPL4MlonEVz+QXOSx6eyhimp1VZC11SCg=
```

Note:

openssl s_client is the implementation of a simple client that connects to a server using SSL/TLS.

Level 15 – 16

```
bandit15@bandit: ~
File Actions Edit View Help
read R BLOCK
Post-Handshake New Session Ticket arrived:
SSL-Session:
    Protocol : TLSv1.3
              : TLS_AES_256_GCM_SHA384
    Cipher
    Session-ID: D6D8767D26D4F863CF374E9C92853EA58F1DBC470632F31FBB717C9A142E8436
    Session-ID-ctx:
    Resumption PSK: 3EC11190775A117886532C1B5D7D0DC211E014452FB8B2BF68FF07342BA2A8EEE4BB4B6289D795EE2FA
10B864326EF86
    PSK identity: None
    PSK identity hint: None
    SRP username: None
    TLS session ticket lifetime hint: 300 (seconds)
    TLS session ticket:
    0000 - e0 1f e7 ec fb 63 73 2a-fc 3f d4 40 de 78 4c d8
                                                               ....cs∗.?.a.xL.
    0010 - 89 c0 e8 78 55 88 45 3b-73 fb dd 85 70 d9 91 13
                                                               ... xU.E;s ... p ...
.t....^ ... J .. E ..
    0020 - fb 74 11 10 07 2e 5e ca-0e d5 4a 07 09 45 1f 81
    0030 - 6f de 02 5d 8a 43 35 6f-f8 34 97 ef 91 ac 50 56
                                                               o..].C5o.4....PV
    0040 - 04 48 0f fa d8 36 64 64-a4 e1 f3 7d 39 2b 96 fd
                                                               .H ... 6dd ... }9+ ..
    0050 - 0b 19 81 e1 cf 0c f1 ab-ee 19 2d c4 14 53 1b 78
    0060 - 7e 33 a9 9c 18 7f 9d 5a-ff ec 2e 76 56 7b 6f 40
                                                               ~3....Z... vV{o∂
    0070 - ad 03 7c b3 fa cb 98 5b-01 1e 61 e0 43 1b 20 d7
    0080 - 74 72 e9 ae a1 da 41 48-1d 8d 17 72 29 f7 93 e1
    0090 - db be 6f a5 dd 06 2c 4d-69 f1 39 f2 9f 3d 60 0e
                                                               ..o...,Mi.9..=`
    00a0 - 8a 99 83 f4 aa aa 5b ca-64 f9 dc bb 1b 74 c7 10
                                                               .NB[.....".n...
.....v"..a.'..Y
    00b0 - 02 4e 42 5b 9c 9c dd 82-9b cd 22 84 6e a1 1c ae
    00c0 - 1b a6 b8 e4 93 aa 76 22-96 0e 61 0e 27 f2 8b 59
    00d0 - c9 19 3b 16 c9 8a c5 59-cd 83 38 71 62 95 6a 7d
                                                               ..;....Y..8qb.j}
    Start Time: 1723456702
    Timeout : 7200 (sec)
    Verify return code: 18 (self-signed certificate)
    Extended master secret: no
    Max Early Data: 0
read R BLOCK
8xCjnmgoKbGLhHFAZlGE5Tmu4M2tKJQo
Correct!
kSkvUpMQ7lBYyCM4GBPvCvT1BfWRy0Dx
                                                                   Activate Windows
closed
bandit15@bandit:~$
```

Note:

I connect to the localhost server with the OpenSSL s_client and send the password from this level. The server then sends back the password for the next level.

Level 16 – 17





Note:

This command scans ports 31000 to 32000 on your local machine to find open services and their versions. -sV is used for version detection.

Nmap is a network scanner. It can do Host Discovery, Port Scanning, Version Detection etc.

After that connects to local port 31790 using SSL encryption with neat. And send the password.

Level 17 – 18

```
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```

Note:

After getting private key in previous level, we should save it in our local machine and login to the current level with that key using **ssh** -i.

The **diff --normal** command compares two files, password.old and password.new, and shows the differences between them.

Level 18 – 19



Note:

.bashrc is a file that is run every time a terminal is loaded.

SSH also allows remote execution of commands.

Instead of logging into the machine with SSH, we just run a command remotely using SSH.

we read the file to find the password.

Level 19 – 20

```
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BonditYS[Jonnitit - C cat / etc / Jonnitit pass/ Jonnitit 19 |

BonditYS[Jonnitit - C cat / etc / Jonnitit pass/ Jonnitit 19 |

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```

Note:

-rwsr-x— means the user bandit19 can execute the binary, but the binary is executed as user bandit20.

Executing the binary says it simply executes another command as another user. This means We can access the password file for the user bandit20, but only the bandit20 user is allowed to read it.

Level 20 – 21

```
File Actions Edit View Help

Supcommed:
Usage: /Juccommect
Usage: /Juccommect
Usage: /Juccommect opertrumbers
This program will connect to the given port on localhost using TGP. If it receives the correct
t passworl from the other side, the mext password is transactived back.

Support (Subbandit: $ /Juccommect / partnumbers)

Namedit Zobbandit: $ /Juccommect / partnumbers
This program will connect to the given port on localbost using TGP. If it receives the correct
t password from the other side, the next password is transactived back.

Subsection of the other side, the next password is transactived back.

Subsection of the other side, the next password is transactived back.

Subsection of the other side, the next password is transactived back.

Subsection of the other side, the next password is transactived back.

Subsection of the other side, the next password is transactived back.

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Subsection of the other side, the next password is transactived back.

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Note:

Using 'netcat'/nc, we can create a connection in server mode.

The provided command sends the string over **netcat** on port 1234 and runs in the background.

./suconnect 1234 this command runs 'suconnect' program and connects to port 1234.and sends back the password.