

Bandit notes:

Level 0: ssh bandit0@bandit.labs.overthewire.org -p 2220

Password bandit0 (provided)

Apparently only tries port 22 if not specified with -p flag

Level 0→1: ls → cat readme → ZjLjTmM6FvvyRnrb2rfNW0Z0Ta6ip5If

Level 1→2: cat ./- (in order to deal with weird named file) →

263JGJPfgU6LtdEvgfWU1XP5yac29mFx

Level 2→3: cat "spaces in this filename" →

MNk8KNH3Usiio41PRUEoDFPqfxLPlSmx

Level 3→4: cd inhere → ls -a → cat ./...Hiding-From-You →

2WmrDFRmJIq3IPxneAaMGhap0pFhF3NJ

Level 4→5: cd inhere → for i in \$(seq 0 9); do echo \$(file ./-

file0\${i}); done → -file07 is ASCII → cat ./-file07 →

4oQYVPkxZ00E005pTW81FB8j8lxXGUQw

Level 5→6: make temp directory with cd \$(mktemp -d) with file path /tmp/tmp.Dw0P01aw4k (randomly generated) → then run ls -laR inhere >

/tmp/tmp.Dw0P01aw4k/allfiles.txt → now find what is the right size:

cat allfiles.txt | grep "1033" > sized.txt → looks like only one

option: .file2 in maybeh07 → HWasnPhtq9AVKe0dmk45nxy20cvUa6EG

Level 6→7: use the find command: find / -type f -user bandit7 -group

bandit6 -size 33c → look through the output, find what isn't

permission denied, and see /var/lib/dpkg/info/bandit7.password →

morbNTDkSW6jIlUc0ym0dMaLn0lFVAaj

Level 7→8: cat data.txt | grep "millionth" →

dfwvzFQi4mU0wfNbF0e9RoWskMLg7eEc

Level 8→9: sort data.txt | uniq -c → look for what only appears once:

4CKMh1JI91bUIZZPXDqGana14xvAg0JM

Level 9→10: look for human readable strings with "strings" command and

then search for where a "=" shows up → strings data.txt | grep ".=" →

FGUW5ilLVJrxX9kMYMmlN4MgbpfMikey

Level 10→11: base64 -d data.txt → dtR173fZKb0RRsDFSGsg2RWnpNVj3qRr

Level 11→12: cat data.txt | tr '[A-Za-z]' '[N-ZA-Mn-za-m]' →

everything is shifted over 13 characters, so here we are mapping the first 13 characters (A-M) to (N-Z) and then the next 13 (N-Z) to (A-

M), both for upper and lower → 7x16WNeHii5YkIhWsfFIqoognUTyj9Q4

Level 12→13: make tmp directory and copy data.txt into it and rename it data_dump → see header of data_dump (1f8b08) which is gzip, so add .gz extension to the output of reversing the hexdump → undo hexdump with xxd -r data_dump > undumped.gz → undumped starts with BZ which is bzip2 (so add extension) → bzip2 -d undumped.bz2 → now can see that there is a data file in there (data4.bin) so use tar to extract (add .tar extension): tar -xf undumped.tar → find data5.bin as output → it seems to have data6.bin in it so extract again and get data6.bin → data6.bin doesn't seem to have any file names showing up in it, but it doesn't have either of the gzip or bzip2 headers, so try tar again → now we have data8.bin → xxd data8.bin has header 1f8b08 so use gzip one more time on that → F05dwFsc0cbaIiH0h8J2eUks2vdTDwAn

Level 13→14: find a file called ssh.private key and I made a copy of this key on my computer

-----BEGIN RSA PRIVATE KEY-----

```
MIIEpAIBAAKCAQEAxkk0E83W2c0T7IWhFc9aPaaQmQDdgzuXCv+ppZHa++buSkN+
gg0tcr7Fw8NLGa5+Uzec2rEg0WmeevB13AIoYp0MZyETq46t+jk9puNwZwIt9XgB
ZufGtZEwWbFwW/vVLNw0XBe4UWStGRWzgPpEeSv5Tb1VjLZIBdGphTIK22Amz6Zb
ThMsiMnyJafEwJ/T8PQ03myS91vUHEuo0MAzoUID4kN0MEZ3+XahyK0HJVq68KsV
ObefXG1vvA3GAJ29kxJaqvRfgYnqZryWN7w3CHjNU4c/2Jkp+n8L0Snxana+WYA7
jiPyTF0is8uzMlYQ4l1Lzh/8/MpvhCQF8r22dwIDAQABAoIBAQC6dWBjhyE0zjeA
J3j/RWmap9M5zfJ/wb2bfidNpwbB8rsJ4sZIDZQ7XuIh4LfgyoAQSS+bBw3RXvzE
pvJt3SmU8hIDuLsCjL1VnBY5pY7Bju8g8aR/3FyjjNAqx/TLfzLLYf0u7i9Jet67
xAh0tONG/u8FB5I3LAI2Vp60viwvdWeC4n0xChldpuPKNLA8rmMMVRTKQ+7T2VS
nXmwYckKUCugzoVSpINZaS0zUDypdpY2+tRH3MQa5kqN1YKjvF8RC47wo0YCKtsD
o3FFpGNFec9Taa3Msy+DfQQhHKZFKIL3bJDONtmrVvtYK40/yeU4aZ/HA2DQzwhe
ol1AfiEhAoGBAOnVjosBkm7sblK+n4IEwPxs8s0mhPnTDUy5WGrpSCrX0msVIBUf
laL3ZGLx3xCIwtCnEucB9DvN2HZkupc/h6hTKUYLqXuyLD8njTrbRhLgbC9QrKrS
M1F2fSTxVqPtZDLDMwjNR04xHA/fKh8bXXyTMq0HNJTHHNhbb3McdURjAoGBANKU
1hqfnw7+aXncJ9bjysr1ZWbqOE5Nd8AFgfwaKuGTTVX2NsUQnCMWdOp+wFak40JH
PKWkJNDBG+ex0H9JNQsTK3X5PBMA58AfX0GrKeuwKWA6erytVTqj0fLYcdp5+z9s
8DtVCxDuVsM+i4X8UqIG0lvGbtKEVokHPFXP1q/dAoGAcHg5YX7WEehCgCYTzp0+
xysX8ScM2qS6xuZ3MqUWAXUWkh7NGZvhe0sGy9iOdANzwKw7mUUFVIAcMR/t54W1
GC83s0s3D7n5Mj8x3Nd08xFit7dT9a245Tva0YQ7KgmqpSg/ScKCw4c3eiLava+J
3btnJeSIU+8ZXq9XjPRpKwUCgYA7z6Li0QKxNeXH3qHXcnHok855maUj5fJNpPbY
iDkyZ8ySF8GlcFsky8Yw6fWCqfG3zDrohJ5l9JmEsBh7SadkwsZhvecQcS9t4vby
9/8X4jS0P8ibfckS4nBP+dT81kkkg5Z5MohXB0RA7VWx+ACohcDEkprsQ+w32xeD
qT1EvQKBgQDKm8ws2ByvSUVs9GjTilCajFqLJ0eVYzRPaY6f++Gv/UVfAPV4c+S0
kAWpXbv5tbkkzbS0eaLPTKgLzavXtQoTtKwrjpolHKIHUz6Wu+n4abfAIRFub0dN
/+aLoRQ0yBDRbdXMsZN/jvY44eM+xRLdRVyMmdPtP8belRi2E2aEzA==
```

-----END RSA PRIVATE KEY-----

Then I tried to ssh into bandit14 with the private key: ssh -i Downloads/banditprivatekey14.txt bandit14@bandit.labs.overthewire.org -p 2220 → but it said the permissions were too open and didn't work → so I changed the permissions so that only I can read it: chmod 600 Downloads/banditprivatekey.txt → and then tried the ssh command again and got in

Level 14→15: found an .ssh folder and in it a file called authorizedkeys which is the following:

ssh-rsa

```
AAAAB3NzaC1yc2EAAAADAQABAAQDGSQ4TzdbZw5PshaEVz1o9ppCZAN2D05cK/6mlkd  
r75u5KQ36CDS1yvvsXDw0sZrn5TN5zasSDRaZ568HXcAihinQxnIR0rjq360T2m43BnAi31  
eAFm58a1kTBZsVbD+9Us3A5cF7hRZK0ZFb0A+kR5K/lNvVWMtkgF0amFMgrbYCbPplt0Ey  
yIyfIlp8TAn9Pw9A7ebJL3W9QcS6g4wD0hQgPiQ3QwRnf5dqHirQclWrrwqxU5t59cbW+8  
DcYAnb2TElqq9F+BiepmvJY3vDcIeM1Thz/YmSn6fwvRKfFo0D5ZgDu0I/JMXSKzy7MyVh  
DiXUv0H/z8ym+EJAXyvbZ3 rudy@localhost
```

But that doesn't look like the standard keys. Last level it said that bandit14 had its password in the `/etc/bandit_pass/bandit14` file:

MU4VWeTyJk8R0of1qqmcBPALh7lDCPvS → now want to use this password to connect to localhost → nc can be used to connect to a host and port which is what we want, with this `nc [<options>] <host> <port>` command structure → so run `nc localhost 30000` and enter the password, and get `8xCjnmgoKbGLhHFAZlGE5Tmu4M2tKJQo`

Level 15→16: using openssl (command structure looks like: `openssl s_client -connect host:port`) to run `openssl s_client -connect localhost:30001` → then enter the password above → `kSkvUpMQ7lBYyCM4GBPvCvT1BfWRy0Dx`

Level 16→17: use nmap to look through ports (`nmap -p80-443 localhost`, eg) → so run `nmap -p31000-32000 localhost`

Starting Nmap 7.94SVN (<https://nmap.org>) at 2024-09-20 16:02 UTC

Nmap scan report for localhost (127.0.0.1)

Host is up (0.00017s latency).

Not shown: 996 closed tcp ports (conn-refused)

PORT	STATE	SERVICE
31046/tcp	open	unknown
31518/tcp	open	unknown
31691/tcp	open	unknown
31790/tcp	open	unknown
31960/tcp	open	unknown

Nmap done: 1 IP address (1 host up) scanned in 0.11 seconds