23 July, 24

BYTEWISE FELLOWSHIP CYBERSECURITY

Bandit Level 31-34

BY: SEERAT E MARRYUM

Bandit Level 30 → Level 31

Level Goal

There is a git repository at ssh://bandit30-git@localhost/home/bandit30-git/repo via the port 2220. The password for the user bandit30-git is the same as for the user bandit30.

Clone the repository and find the password for the next level.

Commands you may need to solve this level

git

```
bandit30@bandit:~$ mkdir b30a
mkdir: cannot create directory ‘b30a’: Permission denied
bandit30@bandit:~$ mkdir /tmp/b30a
bandit30@bandit:~$ cd /tmp/b30a
bandit30@bandit:/tmp/b30a$ GIT_SSH_COMMAND='ssh -p 2220 -o UserKnownHostsFile=/dev/null -o Stric
tHostKeyChecking=no' git clone ssh://bandit30-git@localhost:2220/home/bandit30-git/repo
Cloning into 'repo'...
Warning: Permanently added '[localhost]:2220' (ED25519) to the list of known hosts.
                         _                     _ _ _
                        | |__   __ _ _ __   __| (_) |_
                        | '_ \ / _` | '_ \ / _` | | __|
                        | |_) | (_| | | | | (_| | | |_
                        |_.__/ \__,_|_| |_|\__,_|_|\__|


                      This is an OverTheWire game server.
            More information on http://www.overthewire.org/wargames

bandit30-git@localhost's password:
remote: Enumerating objects: 4, done.
remote: Counting objects: 100% (4/4), done.
remote: Total 4 (delta 0), reused 0 (delta 0), pack-reused 0
Receiving objects: 100% (4/4), done.
bandit30@bandit:/tmp/b30a$ ls
repo
bandit30@bandit:/tmp/b30a$ cd repo
bandit30@bandit:/tmp/b30a/repo$ ls
README.md
bandit30@bandit:/tmp/b30a/repo$ cat README.md
just an epmty file... muahaha
bandit30@bandit:/tmp/b30a/repo$ git log
commit 60410f42e05023128098dc1f6991c75e6ae02e47 (HEAD -> master, origin/master, origin/HEAD)
Author: Ben Dover <noone@overthewire.org>
Date:   Wed Jul 17 15:57:34 2024 +0000

    initial commit of README.md
```

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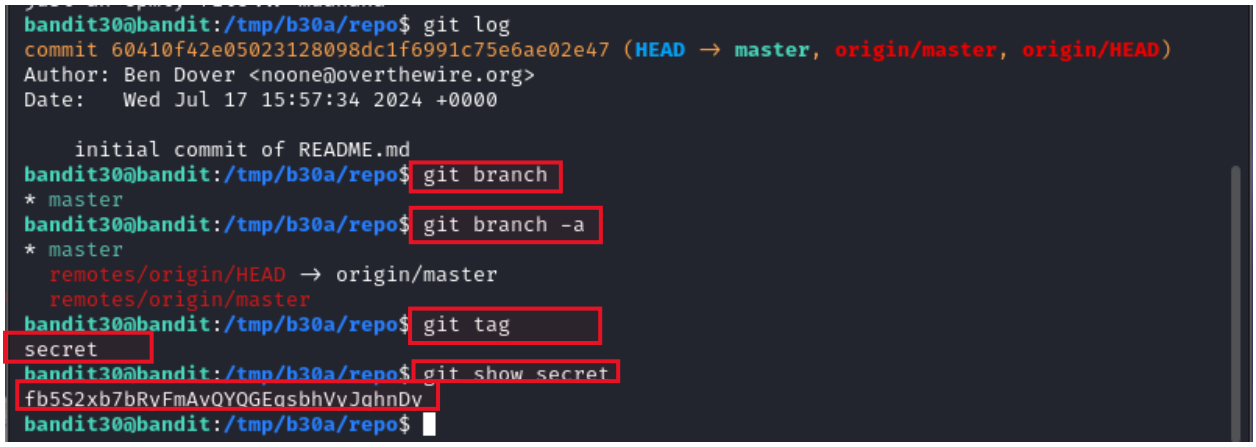
bandit30@bandit:/tmp/b30a/repo$ git log
commit 60410f42e05023128098dc1f6991c75e6ae02e47 (HEAD → master, origin/master, origin/HEAD)
Author: Ben Dover <noone@overthewire.org>
Date: Wed Jul 17 15:57:34 2024 +0000
initial commit of README.md
bandit30@bandit:/tmp/b30a/repo$ git branch
* master
bandit30@bandit:/tmp/b30a/repo$ git branch -a
* master
remotes/origin/HEAD → origin/master
remotes/origin/master
bandit30@bandit:/tmp/b30a/repo$ git tag
secret
bandit30@bandit:/tmp/b30a/repo$ git show secret
fb5S2xb7bRyFmAvQYQGEqsbhVyJqhnDy
bandit30@bandit:/tmp/b30a/repo$

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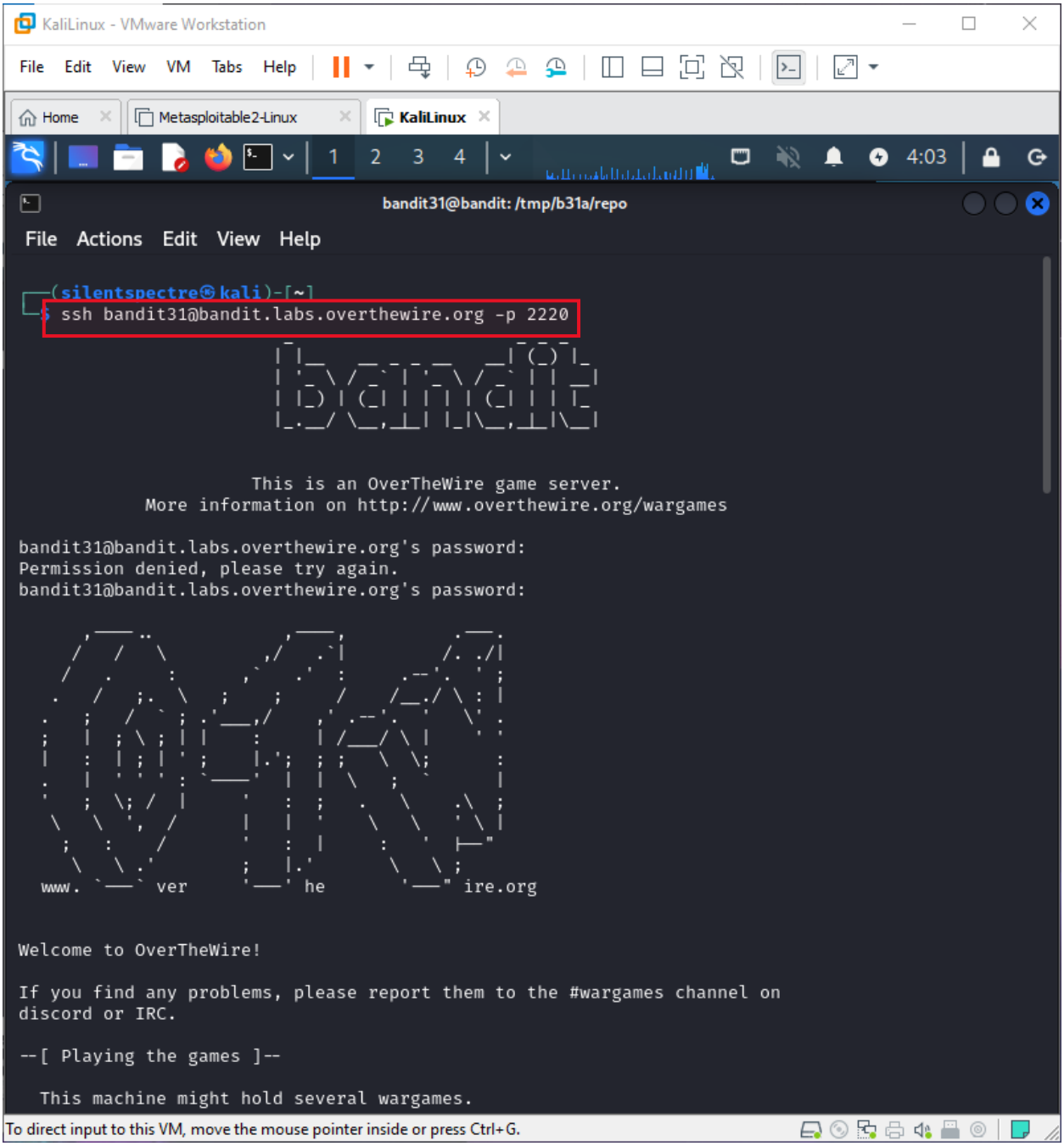
KaliLinux - VMware Workstation
File Edit View VM Tabs Help
Home
Metasploitable2-Linux
KaliLinux
1 2 3 4
4:03
bandit31@bandit: /tmp/b31a/repo
File Actions Edit View Help
(silentspectre㉿kali)-[~]
$ ssh bandit31@bandit.labs.overthewire.org -p 2220
This is an OverTheWire game server.
More information on http://www.overthewire.org/wargames
bandit31@bandit.labs.overthewire.org's password:
Permission denied, please try again.
bandit31@bandit.labs.overthewire.org's password:
Welcome to OverTheWire!
If you find any problems, please report them to the #wargames channel on
discord or IRC.
--[Playing the games]--
This machine might hold several wargames.
To direct input to this VM, move the mouse pointer inside or press Ctrl+G.

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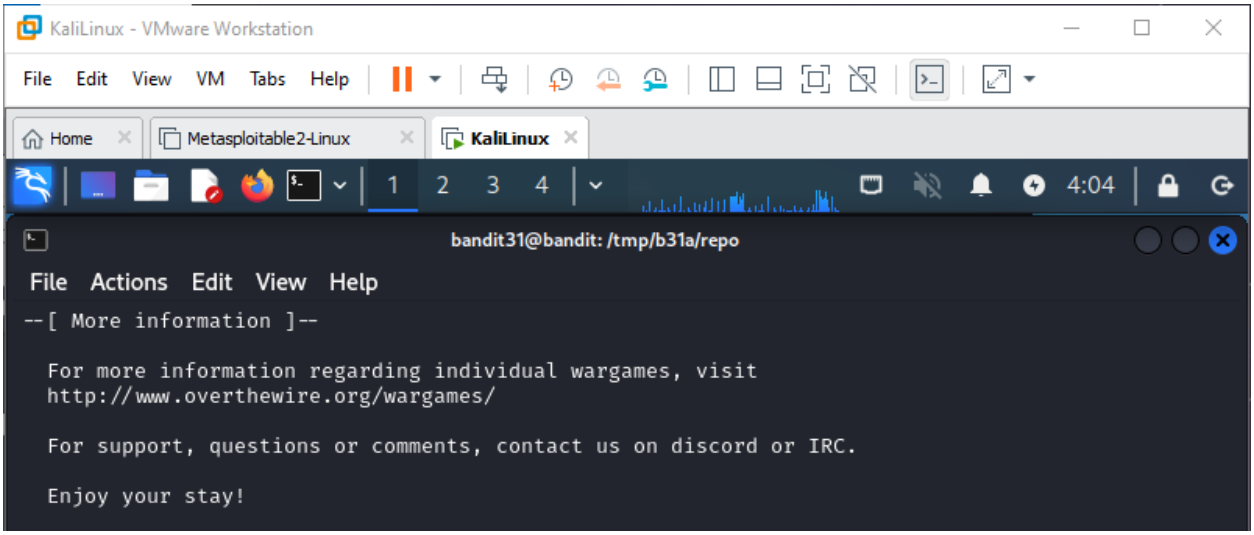

Bandit Level 31 → Level 32

Level Goal

There is a git repository at ssh://bandit31-git@localhost/home/bandit31-git/repo via the port 2220. The password for the user bandit31-git is the same as for the user bandit31.

Clone the repository and find the password for the next level.

Commands you may need to solve this level

git

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```
bandit31@bandit:~$ mkdir /tmp/b31a
bandit31@bandit:~$ cd /tmp/b31a
bandit31@bandit:/tmp/b31a$ GIT_SSH_COMMAND='ssh -p 2220 -o UserKnownHostsFile=/dev/null -o Stric
tHostKeyChecking=no' git clone ssh://bandit31-git@localhost:2220/home/bandit31-git/repo
Cloning into 'repo'...
Warning: Permanently added '[localhost]:2220' (ED25519) to the list of known hosts.
                         _                     _ _ _
                        | |__   __ _ _ __   __| (_) |_
                        | '_ \ / _` | '_ \ / _` | | __|
                        | |_) | (_| | | | | (_| | | |_
                        |_.__/ \__,_|_| |_|\__,_|_|\__|


                      This is an OverTheWire game server.
            More information on http://www.overthewire.org/wargames

bandit31-git@localhost's password:
remote: Enumerating objects: 4, done.
remote: Counting objects: 100% (4/4), done.
remote: Compressing objects: 100% (3/3), done.
remote: Total 4 (delta 0), reused 0 (delta 0), pack-reused 0
Receiving objects: 100% (4/4), done.
bandit31@bandit:/tmp/b31a$ ls
repo
bandit31@bandit:/tmp/b31a$ cd /repo
-bash: cd: /repo: No such file or directory
bandit31@bandit:/tmp/b31a$ cd repo
bandit31@bandit:/tmp/b31a/repo$ ls
README.md
bandit31@bandit:/tmp/b31a/repo$ cat README.md
This time your task is to push a file to the remote repository.
```

```
bandit31@bandit:/tmp/b31a/repo$ cat README.md
This time your task is to push a file to the remote repository.

Details:
    File name: key.txt
    Content: 'May I come in?'
    Branch: master

bandit31@bandit:/tmp/b31a/repo$ nano key.txt
```

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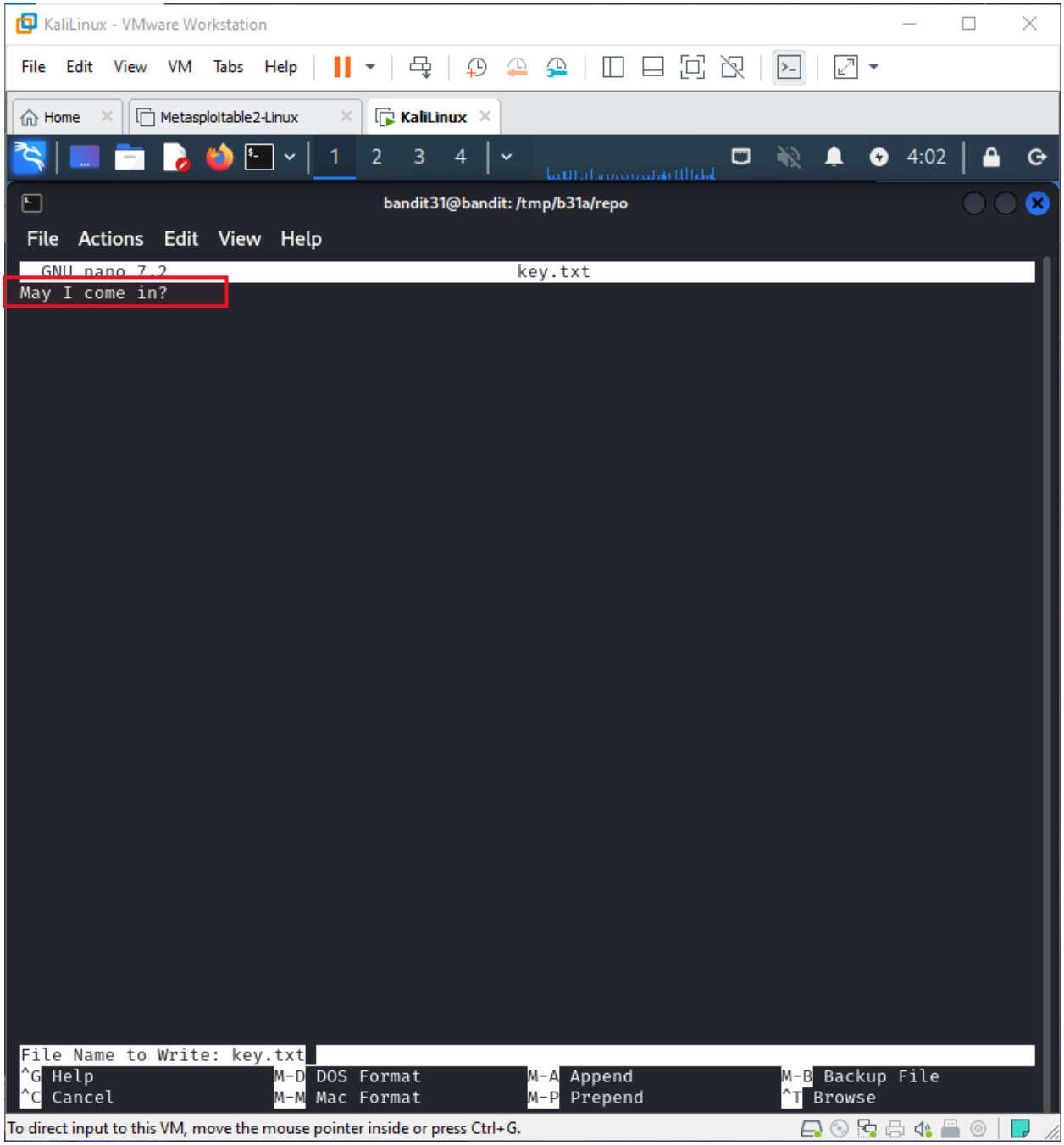
KaliLinux - VMware Workstation
File Edit View VM Tabs Help
Home
Metasploitable2-Linux
KaliLinux
1 2 3 4
4:02
bandit31@bandit: /tmp/b31a/repo
File Actions Edit View Help
GNU nano 7.2 key.txt
May I come in?
File Name to Write: key.txt
^G Help M-D DOS Format M-A Append M-B Backup File
^C Cancel M-M Mac Format M-P Prepend ^T Browse
To direct input to this VM, move the mouse pointer inside or press Ctrl+G.

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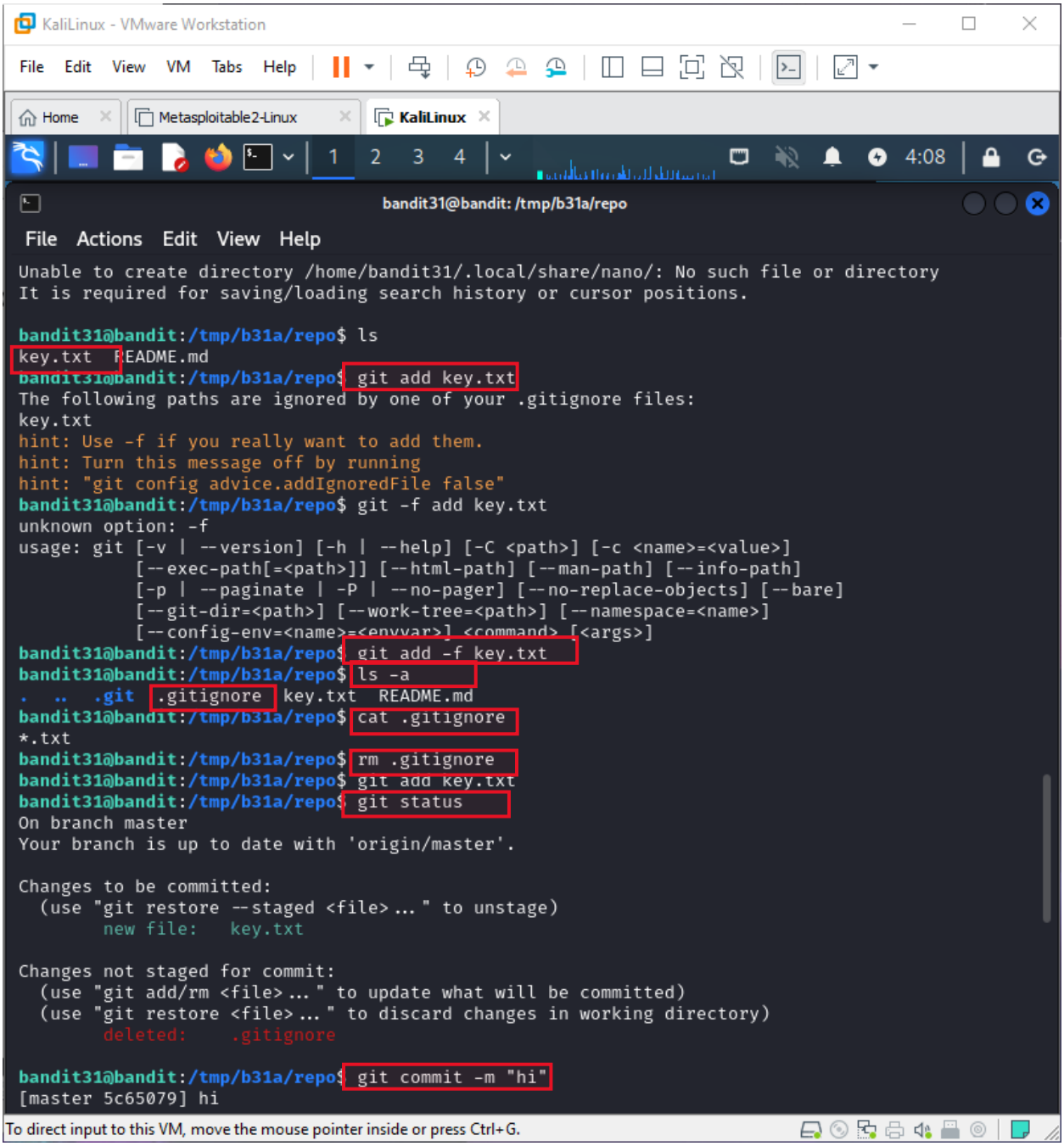
KaliLinux - VMware Workstation
File Edit View VM Tabs Help
Home
Metasploitable2-Linux
KaliLinux
1 2 3 4
4:08
bandit31@bandit: /tmp/b31a/repo
File Actions Edit View Help
Unable to create directory /home/bandit31/.local/share/nano/: No such file or directory
It is required for saving/loading search history or cursor positions.
bandit31@bandit:/tmp/b31a/repo$ ls
key.txt README.md
bandit31@bandit:/tmp/b31a/repo$ git add key.txt
The following paths are ignored by one of your .gitignore files:
key.txt
hint: Use -f if you really want to add them.
hint: Turn this message off by running
hint: "git config advice.addIgnoredFile false"
bandit31@bandit:/tmp/b31a/repo$ git -f add key.txt
unknown option: -f
usage: git [-v | --version] [-h | --help] [-C <path>] [-c <name>=<value>]
[--exec-path[=<path>]] [--html-path] [--man-path] [--info-path]
[-p | --paginate | -P | --no-pager] [--no-replace-objects] [--bare]
[--git-dir=<path>] [--work-tree=<path>] [--namespace=<name>]
[--config-env=<name>=<envvar>] <command> [<args>]
bandit31@bandit:/tmp/b31a/repo$ git add -f key.txt
bandit31@bandit:/tmp/b31a/repo$ ls -a
. .. .git .gitignore key.txt README.md
bandit31@bandit:/tmp/b31a/repo$ cat .gitignore
*.txt
bandit31@bandit:/tmp/b31a/repo$ rm .gitignore
bandit31@bandit:/tmp/b31a/repo$ git add key.txt
bandit31@bandit:/tmp/b31a/repo$ git status
On branch master
Your branch is up to date with 'origin/master'.
Changes to be committed:
(use "git restore --staged <file>..." to unstage)
new file: key.txt
Changes not staged for commit:
(use "git add/rm <file>..." to update what will be committed)
(use "git restore <file>..." to discard changes in working directory)
deleted: .gitignore
bandit31@bandit:/tmp/b31a/repo$ git commit -m "hi"
[master 5c65079] hi
To direct input to this VM, move the mouse pointer inside or press Ctrl+G.

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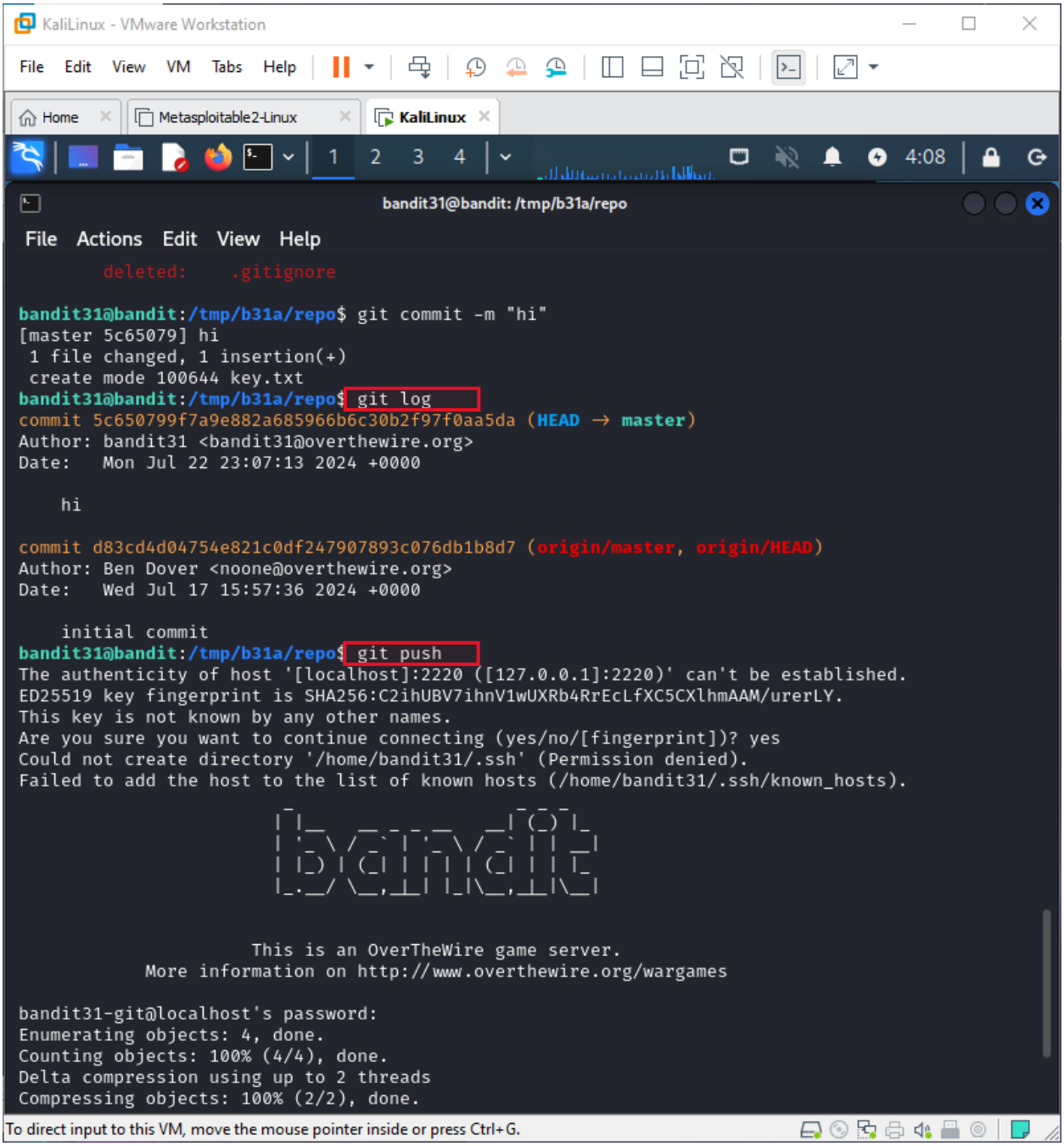
KaliLinux - VMware Workstation
File Edit View VM Tabs Help
Home
Metasploitable2-Linux
KaliLinux
4:08
bandit31@bandit: /tmp/b31a/repo
File Actions Edit View Help
deleted: .gitignore
bandit31@bandit:/tmp/b31a/repo$ git commit -m "hi"
[master 5c65079] hi
1 file changed, 1 insertion(+)
create mode 100644 key.txt
bandit31@bandit:/tmp/b31a/repo$ git log
commit 5c650799f7a9e882a685966b6c30b2f97f0aa5da (HEAD → master)
Author: bandit31 <bandit31@overthewire.org>
Date: Mon Jul 22 23:07:13 2024 +0000
hi
commit d83cd4d04754e821c0df247907893c076db1b8d7 (origin/master, origin/HEAD)
Author: Ben Dover <noone@overthewire.org>
Date: Wed Jul 17 15:57:36 2024 +0000
initial commit
bandit31@bandit:/tmp/b31a/repo$ git push
The authenticity of host '[localhost]:2220 ([127.0.0.1]:2220)' can't be established.
ED25519 key fingerprint is SHA256:C2ihUBV7ihnV1wUXRb4RrEcLfXC5CXlhmAAM/urerLY.
This key is not known by any other names.
Are you sure you want to continue connecting (yes/no/[fingerprint])? yes
Could not create directory '/home/bandit31/.ssh' (Permission denied).
Failed to add the host to the list of known hosts (/home/bandit31/.ssh/known_hosts).
This is an OverTheWire game server.
More information on http://www.overthewire.org/wargames
bandit31-git@localhost's password:
Enumerating objects: 4, done.
Counting objects: 100% (4/4), done.
Delta compression using up to 2 threads
Compressing objects: 100% (2/2), done.
To direct input to this VM, move the mouse pointer inside or press Ctrl+G.

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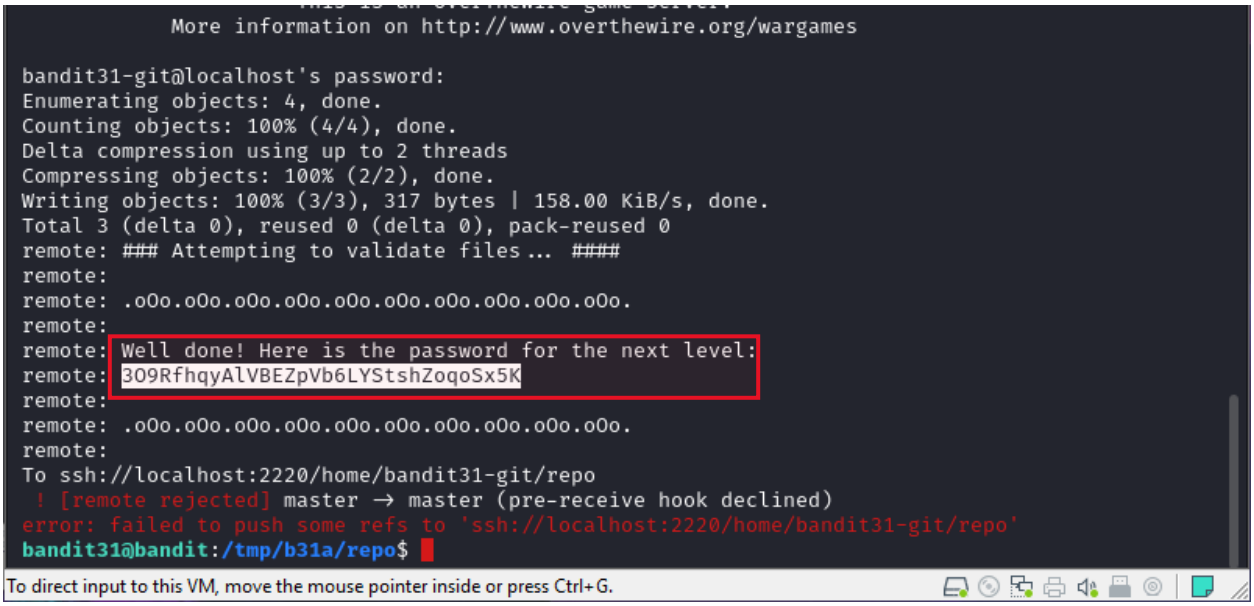
More information on http://www.overthewire.org/wargames
bandit31-git@localhost's password:
Enumerating objects: 4, done.
Counting objects: 100% (4/4), done.
Delta compression using up to 2 threads
Compressing objects: 100% (2/2), done.
Writing objects: 100% (3/3), 317 bytes | 158.00 KiB/s, done.
Total 3 (delta 0), reused 0 (delta 0), pack-reused 0
remote: ### Attempting to validate files... ####
remote:
remote: .oOo.oOo.oOo.oOo.oOo.oOo.oOo.oOo.oOo.oOo.
remote:
remote: Well done! Here is the password for the next level:
remote: 3O9RfhqyAlVBEZpVb6LYStshZoqoSx5K
remote:
remote: .oOo.oOo.oOo.oOo.oOo.oOo.oOo.oOo.oOo.oOo.
remote:
To ssh://localhost:2220/home/bandit31-git/repo
! [remote rejected] master → master (pre-receive hook declined)
error: failed to push some refs to 'ssh://localhost:2220/home/bandit31-git/repo'
bandit31@bandit:/tmp/b31a/repo$
To direct input to this VM, move the mouse pointer inside or press Ctrl+G.

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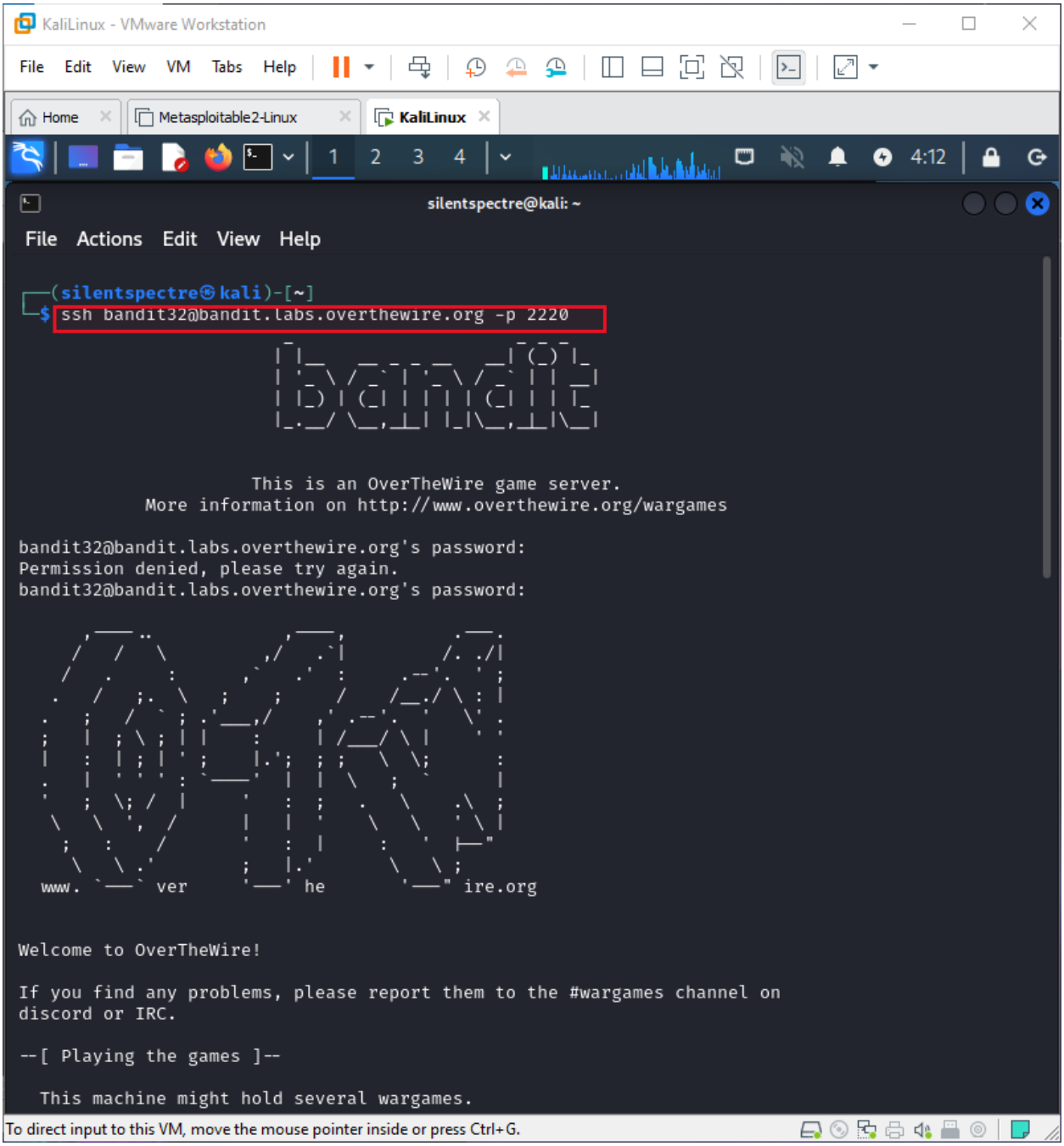

Bandit Level 32 → Level 33

Level Goal

After all this git stuff, it’s time for another escape. Good luck!

Commands you may need to solve this level

sh, man

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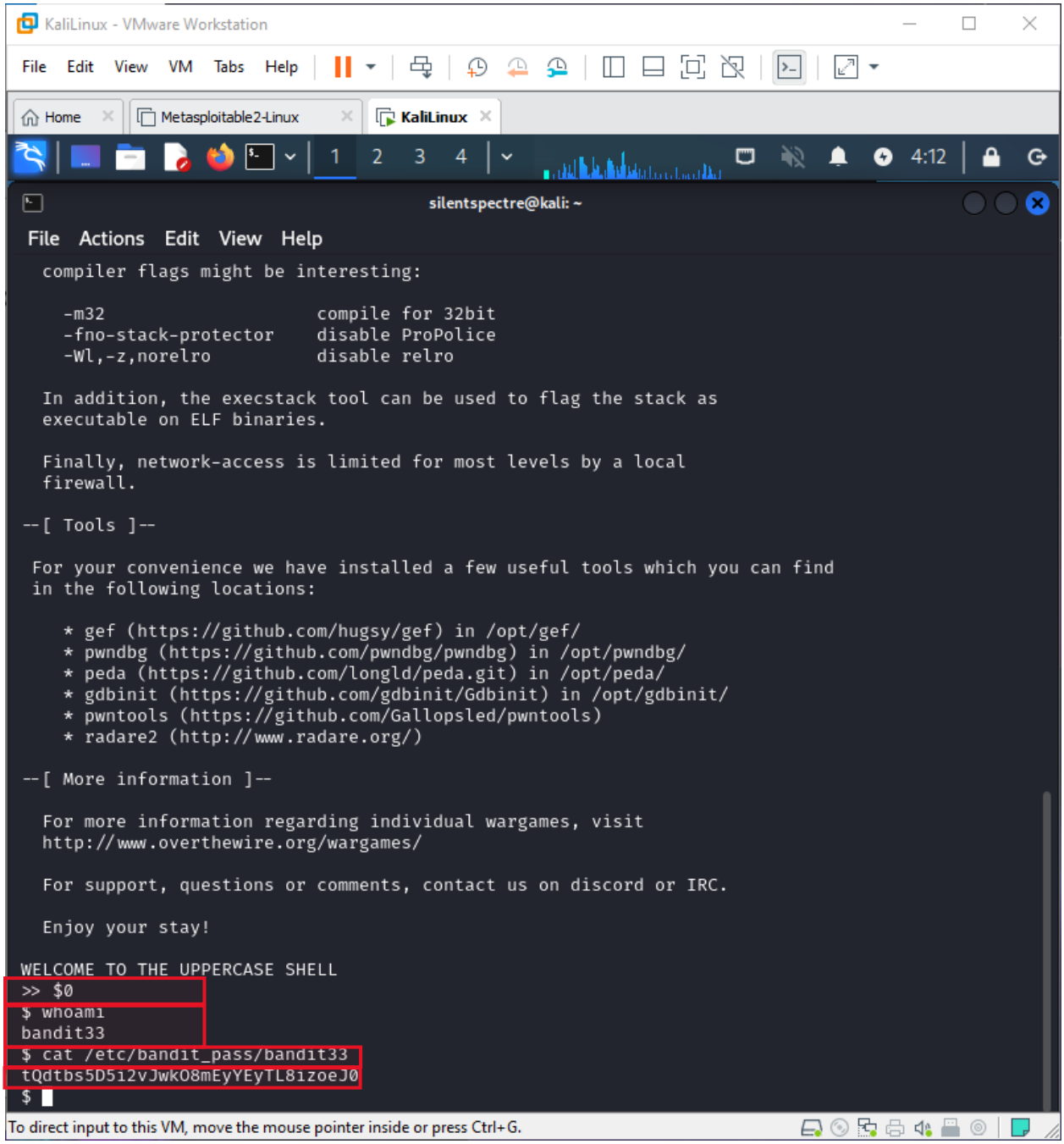
KaliLinux - VMware Workstation
File Edit View VM Tabs Help
Home
Metasploitable2-Linux
KaliLinux
1 2 3 4
4:12
silentspectre@kali: ~
File Actions Edit View Help
compiler flags might be interesting:
-m32 compile for 32bit
-fno-stack-protector disable ProPolice
-Wl,-z,norelro disable relro
In addition, the execstack tool can be used to flag the stack as executable on ELF binaries.
Finally, network-access is limited for most levels by a local firewall.
--[Tools]--
For your convenience we have installed a few useful tools which you can find in the following locations:
* gef (https://github.com/hugsy/gef) in /opt/gef/
* pwndbg (https://github.com/pwndbg/pwndbg) in /opt/pwndbg/
* peda (https://github.com/longld/peda.git) in /opt/peda/
* gdbinit (https://github.com/gdbinit/Gdbinit) in /opt/gdbinit/
* pwntools (https://github.com/Gallopsled/pwntools)
* radare2 (http://www.radare.org/)
--[More information]--
For more information regarding individual wargames, visit
http://www.overthewire.org/wargames/
For support, questions or comments, contact us on discord or IRC.
Enjoy your stay!
WELCOME TO THE UPPERCASE SHELL
>> $0
$ whoami
bandit33
$ cat /etc/bandit_pass/bandit33
tQdtbs5D5i2vJwkO8mEyYEyTL8izoeJ0
$
To direct input to this VM, move the mouse pointer inside or press Ctrl+G.

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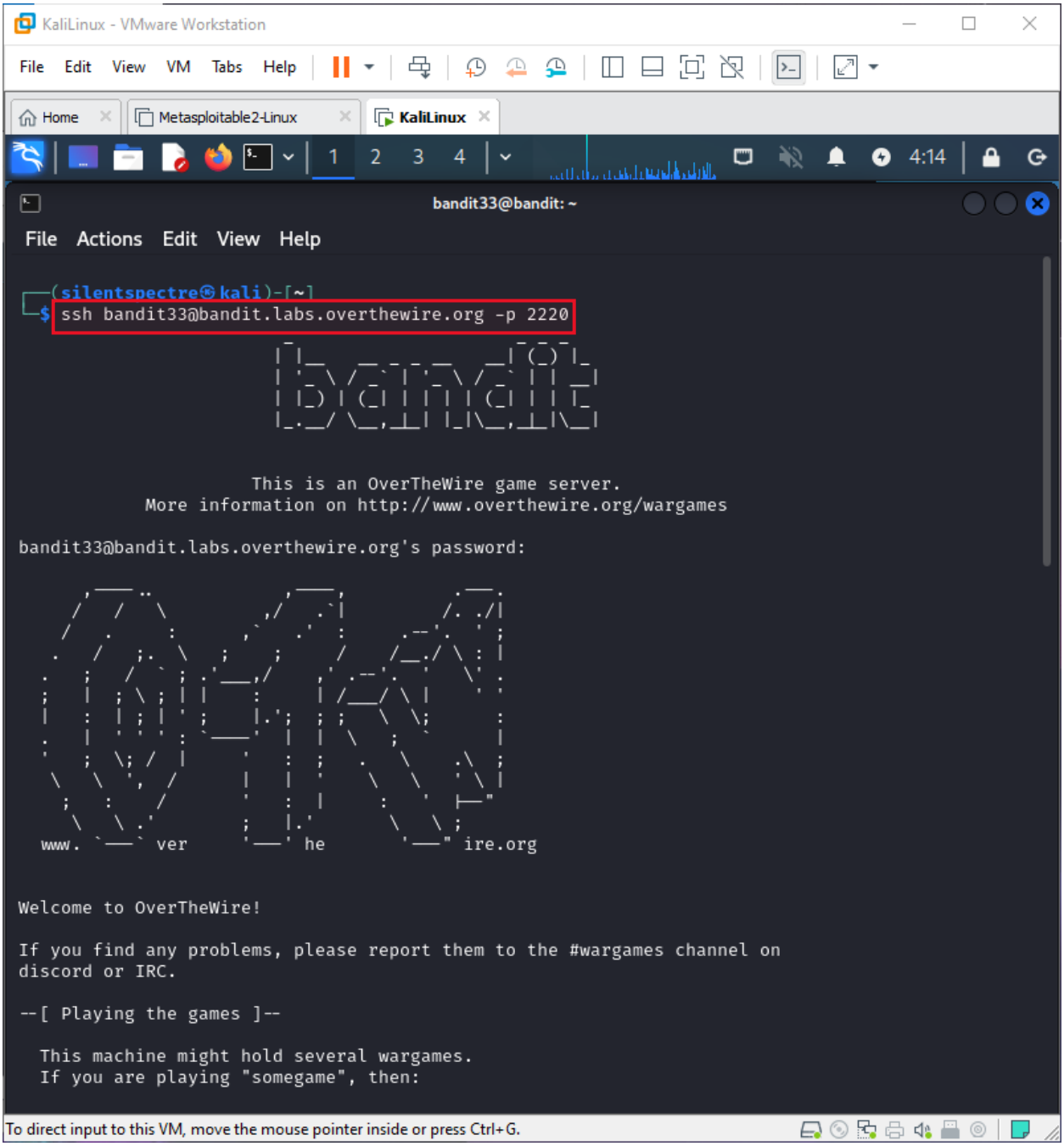
KaliLinux - VMware Workstation
File Edit View VM Tabs Help
Home
Metasploitable2-Linux
KaliLinux
4:14
bandit33@bandit: ~
File Actions Edit View Help
(silentspectre㉿kali)-[~]
$ ssh bandit33@bandit.labs.overthewire.org -p 2220
This is an OverTheWire game server.
More information on http://www.overthewire.org/wargames
bandit33@bandit.labs.overthewire.org's password:
Welcome to OverTheWire!
If you find any problems, please report them to the #wargames channel on
discord or IRC.
--[Playing the games]--
This machine might hold several wargames.
If you are playing "somegame", then:
To direct input to this VM, move the mouse pointer inside or press Ctrl+G.

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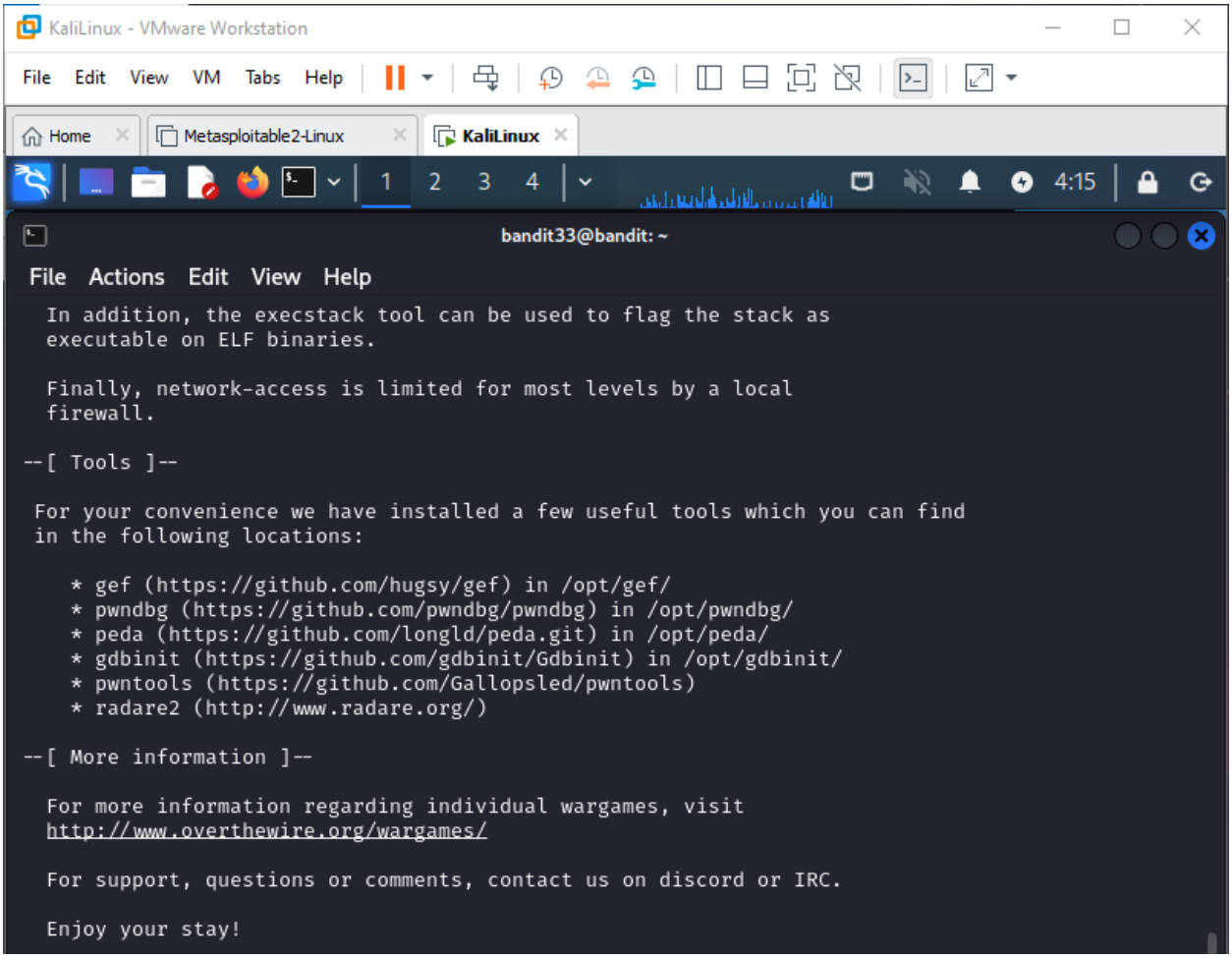
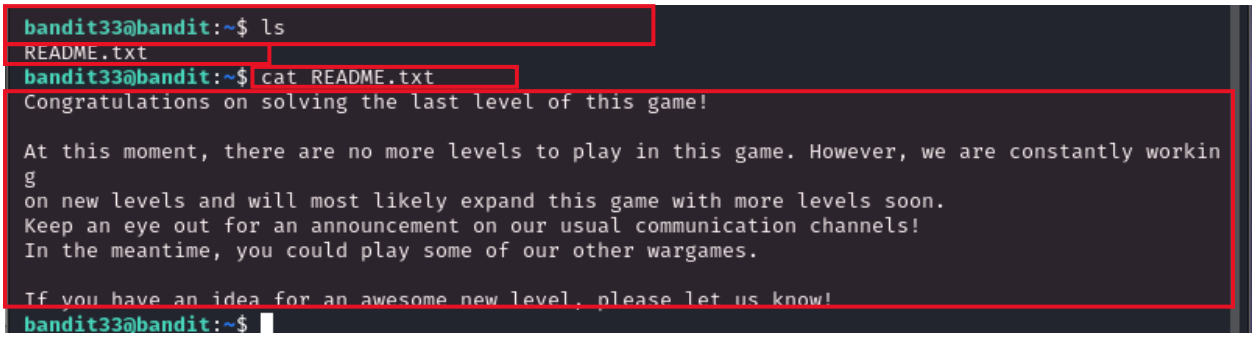


Bandit Level 33 → Level 34

At this moment, level 34 does not exist yet.



All levels passwords:

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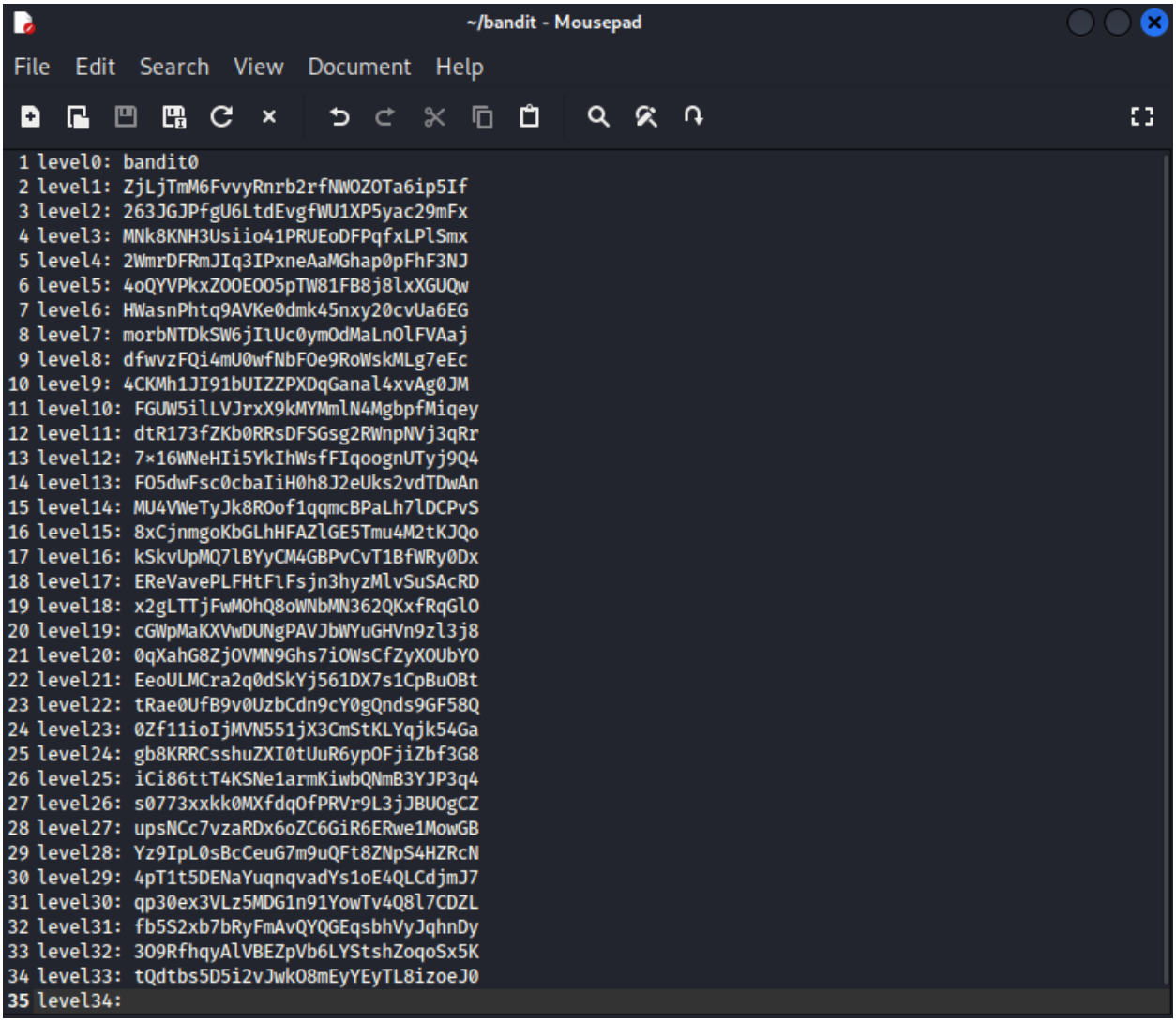
~/bandit - Mousepad
File Edit Search View Document Help
1 level0: bandit0
2 level1: ZjLjTmM6FvvyRnrb2rfNWOZOTa6ip5If
3 level2: 263JGJPfgU6LtdEvgfWU1XP5yac29mFx
4 level3: MNk8KNH3Usiio41PRUEoDFPqfxLPlSmx
5 level4: 2WmrDFRmJIq3IPxneAaMGhap0pFhF3NJ
6 level5: 4oQYVPkxZOOEOO5pTW81FB8j8lxXGUQw
7 level6: HWasnPhtq9AVKe0dmk45nxy20cvUa6EG
8 level7: morbNTDkSW6jIlUc0ymOdMaLnOlFVAaj
9 level8: dfwvzFQi4mU0wfNbFOe9RoWskMLg7eEc
10 level9: 4CKMh1JI91bUIZZPXDqGanal4xvAg0JM
11 level10: FGUW5ilLVJrxX9kMYMmlN4MgbpfMiqey
12 level11: dtR173fZKb0RRsDFSGsg2RWnpNVj3qRr
13 level12: 7×16WNeHIi5YkIhWsfFIqoognUTyj9Q4
14 level13: FO5dwFsc0cbaIiH0h8J2eUks2vdTDwAn
15 level14: MU4VWeTyJk8ROof1qqmcBPaLh7lDCPvS
16 level15: 8xCjnmgoKbGLhHFAZlGE5Tmu4M2tKJQo
17 level16: kSkvUpMQ7lBYyCM4GBPvCvT1BfWRy0Dx
18 level17: EReVavePLFHtFlFsjn3hyzMlvSuSAcRD
19 level18: x2gLTTjFwMOhQ8oWNbMN362QKxfRqGlO
20 level19: cGWpMaKXVwDUNgPAVJbWYuGHVn9zl3j8
21 level20: 0qXahG8ZjOVMN9Ghs7iOWsCfZyXOUbYO
22 level21: EeoULMCra2q0dSkYj561DX7s1CpBuOBt
23 level22: tRae0UfB9v0UzbCdn9cY0gQnds9GF58Q
24 level23: 0Zf11ioIjMVN551jX3CmStKLYqjk54Ga
25 level24: gb8KRRCsshuZXI0tUuR6ypOFjiZbf3G8
26 level25: iCi86ttT4KSNe1armKiwbQNmB3YJP3q4
27 level26: s0773xxkk0MXfdqOfPRVr9L3jJBUOgCZ
28 level27: upsNCc7vzaRDx6oZC6GiR6ERwe1MowGB
29 level28: Yz9IpL0sBcCeuG7m9uQFt8ZNpS4HZRcN
30 level29: 4pT1t5DENaYuqnqvadYs1oE4QLCdjmJ7
31 level30: qp30ex3VLz5MDG1n91YowTv4Q8l7CDZL
32 level31: fb5S2xb7bRyFmAvQYQGEqsbhVyJqhnDy
33 level32: 3O9RfhqyAlVBEZpVb6LYStshZoqoSx5K
34 level33: tQdtbs5D5i2vJwkO8mEyYEyTL8izoeJ0
35 level34: