

GameShell

Traccia:

Familiarizzazione con OS linux, shell e Command Prompt: installeremo su Kali Linux un gioco per familiarizzare con i comandi linux: GameShell.

Obiettivo:

L'obiettivo dell'esercizio GameShell era dimostrare una buona padronanza dei comandi base di Linux, fondamentali per muoversi in ambiente terminale e gestire file, cartelle e contenuti in maniera efficiente. Attraverso una serie di missioni ambientate in un gioco a tappe, ci siamo trovati a dover navigare tra directory, leggere file, modificarli e compiere operazioni logiche utilizzando soltanto il terminale.

Svolgimento dell'esercizio:

```
[mission 1] $ pwd
/home/kali/gameshell/World

[use 'gsh help' to get a list of available commands]
[mission 1] $ cd Castle

[use 'gsh help' to get a list of available commands]
[mission 1] $ cd Main_tower/

[use 'gsh help' to get a list of available commands]
[mission 1] $ cd First_floor

[use 'gsh help' to get a list of available commands]
[mission 1] $ cd Second_floor/

[use 'gsh help' to get a list of available commands]
[mission 1] $ cd Top_of_the_tower/

[use 'gsh help' to get a list of available commands]
[mission 1] $ gsh check

Congratulations, mission 1 has been successfully completed!

[ progress was saved in /home/kali/gameshell-save.sh ]
```

2.

```

[mission 2] $ cd

[use 'gsh help' to get a list of available commands]
[mission 2] $ cd Castle/Cellar

[use 'gsh help' to get a list of available commands]
[mission 2] $ gsh check

Congratulations, mission 2 has been successfully completed!

[ progress was saved in /home/kali/gameshell-save.sh ]

```

3.

```

[mission 3] $ cd

[use 'gsh help' to get a list of available commands]
[mission 3] $ cd Castle/Main_building/Throne_room

[use 'gsh help' to get a list of available commands]
[mission 3] $ gsh check

Congratulations, mission 3 has been successfully completed!

Well done!!!

From now on, the current location will be shown just before the command prompt.

[ progress was saved in /home/kali/gameshell-save.sh ]

```

4.

```
~/Castle/Main_building/Throne_room
[mission 4] $ cd

~
[mission 4] $ cd Forest

~/Forest
[mission 4] $ mkdir Hut

~/Forest
[mission 4] $ cd Hut

~/Forest/Hut
[mission 4] $ mkdir Chest

~/Forest/Hut
[mission 4] $ gsh check

Congratulations, mission 4 has been successfully completed!

[ progress was saved in /home/kali/gameshell-save.sh ]
```

5.

```
~/Castle/Cellar
[mission 6] $ cd

~
[mission 6] $ cd Garden

~/Garden
[mission 6] $ ls
coin_1  coin_2  coin_3  Flower_garden  Maze  Shed

~/Garden
[mission 6] $ mv coin_1 coin_2 coin_3 ~/Forest/Hut/Chest

~/Garden
[mission 6] $ gsh check

Congratulations, mission 6 has been successfully completed!

[ progress was saved in /home/kali/gameshell-save.sh ]
```

6.

```
~/Castle/Cellar
[mission 6] $ cd

~
[mission 6] $ cd Garden

~/Garden
[mission 6] $ ls
coin_1  coin_2  coin_3  Flower_garden  Maze  Shed

~/Garden
[mission 6] $ mv coin_1 coin_2 coin_3 ~/Forest/Hut/Chest

~/Garden
[mission 6] $ gsh check

Congratulations, mission 6 has been successfully completed!

[ progress was saved in /home/kali/gameshell-save.sh ]
```

7.

```
~/Garden
[mission 7] $ ls -A
.21622_coin_3  .42390_coin_2  .55503_coin_1  Flower_garden  Maze  Shed

~/Garden
[mission 7] $ mv .21622_coin_3 .42390_coin_2 .55503_coin_1 ~/Forest/Hut/Chest

~/Garden
[mission 7] $ gsh check

Congratulations, mission 7 has been successfully completed!

[ progress was saved in /home/kali/gameshell-save.sh ]
```

8.


```

~/Garden
[mission 8] $ cd

~
[mission 8] $ cd Castle/Cellar

~/Castle/Cellar
[mission 8] $ ls
11281_spider_26 1512_bat_1 20173_spider_6 21952_spider_19 27404_spider_4 4724_spider_40
11442_spider_17 15472_spider_31 20278_spider_49 22159_spider_27 28017_spider_7 5191_bat_5
11653_spider_35 15748_spider_43 20284_spider_9 22539_spider_23 28485_spider_2 6400_bat_2
12368_spider_10 17574_spider_20 2049_spider_46 23679_bat_3 28727_spider_30 7802_spider_36
12763_spider_39 18185_spider_34 20814_spider_25 23781_spider_47 28832_spider_24 9871_spider_15
13272_spider_5 18239_spider_11 20923_spider_29 23879_bat_4 29928_spider_33 barrel_of_apples
13662_spider_28 18735_spider_37 209_spider_18 25761_spider_38 31140_spider_45
14259_spider_14 18923_spider_3 21089_spider_50 2595_spider_13 3710_spider_32
14351_spider_16 19621_spider_44 21453_spider_48 2630_spider_12 3820_spider_8
14366_spider_1 19948_spider_42 21570_spider_22 2661_spider_41 43_spider_21

~/Castle/Cellar
[mission 8] $ rm *spider*
l
~/Castle/Cellar
[mission 8] $ ls
1512_bat_1 23679_bat_3 23879_bat_4 5191_bat_5 6400_bat_2 barrel_of_apples

~/Castle/Cellar
[mission 8] $ gsh check

Congratulations, mission 8 has been successfully completed!

```

9.

```

~/Castle/Cellar
[mission 9] $ ls -A
.10040_spider_33 .14967_spider_5 .21878_spider_16 .27627_spider_2 5191_bat_5 .7737_spider_17
.10545_spider_41 1512_bat_1 .2302_spider_35 .28204_spider_39 .5350_spider_3 .8833_spider_10
.1152_spider_45 .15345_spider_28 .23122_spider_12 .28360_bat_2 .5676_spider_8 .9694_spider_1
.12428_spider_11 .1554_spider_32 23679_bat_3 .29113_spider_20 .5750_spider_26 .9818_spider_31
.12711_spider_29 .1669_spider_38 .23791_spider_30 .29250_bat_5 .6222_bat_3 .9900_spider_7
.13992_spider_24 .18085_spider_19 23879_bat_4 .30143_spider_4 6400_bat_2 barrel_of_apples
.14030_spider_15 .18520_spider_23 .25022_spider_9 .32467_spider_47 .659_spider_48
.14213_spider_50 .1867_spider_6 .25286_spider_36 .41_bat_1 .6648_spider_14
.14711_spider_43 .1985_spider_18 .26157_spider_22 .4388_spider_49 .6848_spider_25
.1473_spider_21 .20666_spider_13 .27140_spider_44 .5000_spider_42 .695_spider_27
.14757_bat_4 .21546_spider_46 .2743_spider_34 .5013_spider_40 .7706_spider_37

~/Castle/Cellar
[mission 9] $ rm .*spider*

~/Castle/Cellar
[mission 9] $ gsh check

Congratulations, mission 9 has been successfully completed!

```



Congratulations !

From now on, the ``ls`` command will automatically show a ``/`` character at the end of directories.

10.

```
~/Castle/Cellar
[mission 10] $ cd ../Great_hall

~/Castle/Great_hall
[mission 10] $ ls
17589_suit_of_armour  52968_stag_head  53482_decorative_shield  standard_1  standard_2  standard_3  standard_4

~/Castle/Great_hall
[mission 10] $ cp standard_1 standard_3 standard_4 standard_2 ~/Forest/Hut/Chest/

~/Castle/Great_hall
[mission 10] $ gsh check

Congratulations, mission 10 has been successfully completed!

[ progress was saved in /home/kali/gameshell-save.sh ]
```

11.

```
~/Castle/Great_hall
[mission 11] $ ls
10658_tapestry_01  27270_decorative_shield  37086_stag_head  53174_tapestry_04  58883_tapestry_09  standard_3
18010_tapestry_05  29049_tapestry_02  48195_suit_of_armour  5476_tapestry_10  standard_1  standard_4
20887_tapestry_06  36096_tapestry_08  51563_tapestry_03  56170_tapestry_07  standard_2

~/Castle/Great_hall
[mission 11] $ cp *tapestry* ~/Forest/Hut/Chest/

~/Castle/Great_hall
[mission 11] $ gsh check

Congratulations, mission 11 has been successfully completed!

[ progress was saved in /home/kali/gameshell-save.sh ]
```

```
|
--+-----+
| Use the command |
|   $ gsh help   |
| to get the list of "gsh" commands. |
--+-----+
|
```

12.

```
~/Castle/Great_hall
[mission 12] $ cd

~
[mission 12] $ cd Castle/Main_tower/First_floor/

~/Castle/Main_tower/First_floor
[mission 12] $ ls
painting_FqPRQyu0  painting_ryCNzRkD  painting_WdTxFlKz  Second_floor/

~/Castle/Main_tower/First_floor
[mission 12] $ ls -l
total 16
-rw-rw-r-- 1 kali kali 1055 Feb 24 2017 painting_FqPRQyu0
-rw-rw-r-- 1 kali kali 1455 Jan 5 2004 painting_ryCNzRkD
-rw-rw-r-- 1 kali kali 1503 May 18 1988 painting_WdTxFlKz
drwxrwxr-x 3 kali kali 4096 Apr 22 16:02 Second_floor/

~/Castle/Main_tower/First_floor
[mission 12] $ cp painting_WdTxFlKz ~/Forest/Hut/Chest/

~/Castle/Main_tower/First_floor
[mission 12] $ gsh check

Congratulations, mission 12 has been successfully completed!

[ progress was saved in /home/kali/gameshell-save.sh ]
```

13.

```
~/Castle/Main_tower/First_floor
[mission 13] $ cal 1913
```

```

1913
January February March
Su Mo Tu We Th Fr Sa Su Mo Tu We Th Fr Sa Su Mo Tu We Th Fr Sa
      1 2 3 4          1          1
5 6 7 8 9 10 11 2 3 4 5 6 7 8 2 3 4 5 6 7 8
12 13 14 15 16 17 18 9 10 11 12 13 14 15 9 10 11 12 13 14 15
19 20 21 22 23 24 25 16 17 18 19 20 21 22 16 17 18 19 20 21 22
26 27 28 29 30 31 23 24 25 26 27 28 23 24 25 26 27 28 29
30 31
```

```

April May June
Su Mo Tu We Th Fr Sa Su Mo Tu We Th Fr Sa Su Mo Tu We Th Fr Sa
      1 2 3 4 5          1 2 3 1 2 3 4 5 6 7
6 7 8 9 10 11 12 4 5 6 7 8 9 10 8 9 10 11 12 13 14
13 14 15 16 17 18 19 11 12 13 14 15 16 17 15 16 17 18 19 20 21
20 21 22 23 24 25 26 18 19 20 21 22 23 24 22 23 24 25 26 27 28
27 28 29 30 25 26 27 28 29 30 31 29 30
```

```

July August September
Su Mo Tu We Th Fr Sa Su Mo Tu We Th Fr Sa Su Mo Tu We Th Fr Sa
      1 2 3 4 5          1 2 1 2 3 4 5 6
6 7 8 9 10 11 12 3 4 5 6 7 8 9 7 8 9 10 11 12 13
13 14 15 16 17 18 19 10 11 12 13 14 15 16 14 15 16 17 18 19 20
20 21 22 23 24 25 26 17 18 19 20 21 22 23 21 22 23 24 25 26 27
27 28 29 30 31 24 25 26 27 28 29 30 28 29 30
31
```

```

October November December
Su Mo Tu We Th Fr Sa Su Mo Tu We Th Fr Sa Su Mo Tu We Th Fr Sa
      1 2 3 4          1 1 2 3 4 5 6
5 6 7 8 9 10 11 2 3 4 5 6 7 8 7 8 9 10 11 12 13
12 13 14 15 16 17 18 9 10 11 12 13 14 15 14 15 16 17 18 19 20
19 20 21 22 23 24 25 16 17 18 19 20 21 22 21 22 23 24 25 26 27
26 27 28 29 30 31 23 24 25 26 27 28 29 28 29 30 31
30
```

```
~/Castle/Main_tower/First_floor
```

```
[mission 13] $ gsh check
```

```
What was the day of the week for the 01-18-1913?
```

- 1 : Monday
- 2 : Tuesday
- 3 : Wednesday
- 4 : Thursday
- 5 : Friday
- 6 : Saturday
- 7 : Sunday

```
Your answer: 6
```

```
Congratulations, mission 13 has been successfully completed!
```

```
[ progress was saved in /home/kali/gameshell-save.sh ]
```



```
~/Castle/Main_tower/First_floor
[mission 14] $ alias la='ls -A'

~/Castle/Main_tower/First_floor
[mission 14] $ gsh check

Congratulations, mission 14 has been successfully completed!

[ progress was saved in /home/kali/gameshell-save.sh ]
```

15.

```
~/Castle/Main_tower/First_floor
[mission 15] $ cd

~
[mission 15] $ cd Forest/Hut/Chest/

~/Forest/Hut/Chest
[mission 15] $ nano journal.txt

~/Forest/Hut/Chest
[mission 15] $ gsh check

Congratulations, mission 15 has been successfully completed!

[ progress was saved in /home/kali/gameshell-save.sh ]
```

16.

```
~/Forest/Hut/Chest
[mission 16] $ alias journal='nano ~/Forest/Hut/Chest/journal.txt'

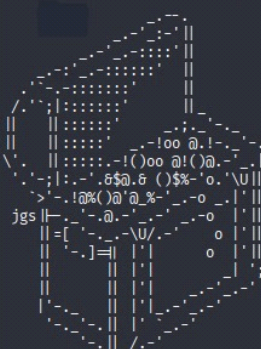
~/Forest/Hut/Chest
[mission 16] $ gsh check

Congratulations, mission 16 has been successfully completed!

Congratulations!

From now on you can use the file
"~/gshrc"
to record aliases. More information can be found in the file (it has been created for you).

[ progress was saved in /home/kali/gameshell-save.sh ]
```



17.

```
~/Castle/Cellar
[mission 17] $ cd .Lair_of_the_spider_queen\ JXamgMwmQXYIriIO bwBnamlnMAdYPtUV/

~/Castle/Cellar/.Lair_of_the_spider_queen JXamgMwmQXYIriIO bwBnamlnMAdYPtUV
[mission 17] $ la
vwuWUtKECWhxxqus_spider_queen_jjIrglrhRWAnMGaN xDoBhXIXXstL0hvY_baby_bat_xfNDrjRaLGllnuGf

~/Castle/Cellar/.Lair_of_the_spider_queen JXamgMwmQXYIriIO bwBnamlnMAdYPtUV
[mission 17] $ rm vwuWUtKECWhxxqus_spider_queen_jjIrglrhRWAnMGaN ù
rm: cannot remove 'ù': No such file or directory

~/Castle/Cellar/.Lair_of_the_spider_queen JXamgMwmQXYIriIO bwBnamlnMAdYPtUV
[mission 17] $ gsh check
Perfect, it took you only 15 seconds to complete this mission!

Congratulations, mission 17 has been successfully completed!

[ progress was saved in /home/kali/gameshell-save.sh ]
```

18.

```
~/Castle/Cellar/.Lair_of_the_spider_queen JXamgMwmQXYIriIO bwBnamlnMAdYPtUV
[mission 18] $ xeyes
^C

~/Castle/Cellar/.Lair_of_the_spider_queen JXamgMwmQXYIriIO bwBnamlnMAdYPtUV
[mission 18] $ xeyes&
[1] 28484

~/Castle/Cellar/.Lair_of_the_spider_queen JXamgMwmQXYIriIO bwBnamlnMAdYPtUV
[mission 18] $ gsh check

Congratulations, mission 18 has been successfully completed!

[ progress was saved in /home/kali/gameshell-save.sh ]
```

19.

1000

*

100

*

*

[3]- Done

```
[4]+ Done
```

It works! The special incantation is `kloi`

cat: visualizza il contenuto di un file.

head e tail: servono per leggere rispettivamente l'inizio o la fine di un file.

wc: conta righe, parole o caratteri all'interno di un file (es. wc -l per contare le righe).

grep: cerca stringhe o pattern all'interno di un file.

sort: ordina alfabeticamente o numericamente le righe di un file.

uniq: elimina righe duplicate consecutive, spesso usato con sort.

find: cerca file o cartelle all'interno del filesystem.

chmod: modifica i permessi di un file, ad esempio rendendolo eseguibile.

gsh check: comando specifico del gioco GameShell per verificare se la missione è stata completata correttamente.

Conclusione:

L'attività ha permesso di prendere confidenza con l'uso pratico della shell, allenando la logica e la precisione

Panagiotis Diamantopoulos

Comandi utilizzati nei livelli 1–20 di GameShell