2023

Pod_1-Lollipop Maker:

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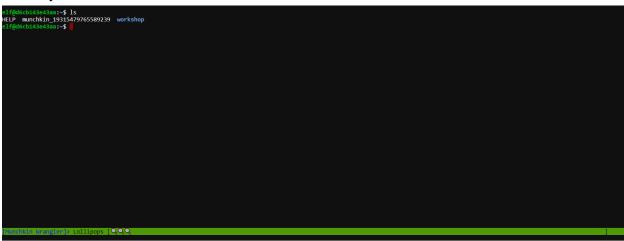
Task: The North Pole Q Lollipop Maker:

All the lollipops on this system have been stolen by munchkins. Capture munchkins by following instructions here and @ 's will appear in the green bar below. Run the command "hintme" to receive a hint.

Prompt 1: Perform a directory listing of your home directory to find a munchkin and retrieve a lollipop!

Command: Is

Explanation:The "Is" command lists all of the folders and files that are inside the folder you are currently in



Prompt 2: Find the munchkin inside the munchkin Command: cat munchkin_19315479765589239

Explanation: the cat program opens a file and shows what is written inside of it.

```
elf@dscb143e43as:-$ 1s

HELP munchkin_19315479765589239 workshop
elf@dscb143e43as:-$ at munchkin_19315479765589239
munchkin_2418702239877678e
elf@dscb143e43as:-$ | |
```

Prompt 3: remove the munchkins

Command: rm - rf munchkin_19315479765589239

Explanation: the rm function deletes the file munchkin_19315479765589239 and the -f command forces it to delete the -r removes using recursion.

Prompt 4: Print the present working directory using a command.

Command: pwd

Explanation: Show current directory file path using the pwd command.

Prompt 5: Good job but it looks like another munchkin hid itself in you home directory. Find the hidden munchkin!

Command: Is -a

Explanation: like in promp 1 the Is command shows the folders and files in your current directory. When you add -a it allows you to see hidden files which are usually those that start with a .

Prompt 6: Excellent, now find the munchkin in your command history.

Command: history

Explanation: show recent command history. This history command lets you review commands used in the past on the computer.

Prompt 7: Find the munchkin in your environment variables.

Command: env

Explanation: when the env command is ran it lists all of the settings and information used for tasks. The command gives you access to all of the the data in these settings and information. Looking for references to munchkins hidden within.

```
35:*.nuv=01;35:*.ws=01;35:*.asf=01;35:*.rs=01;35:*.rs=01;35:*.rs=01;35:*.rs=01;35:*.eps=01;35:*.eps=01;35:*.eps=01;35:*.eps=01;35:*.eps=01;35:*.eps=01;35:*.eps=01;35:*.eps=01;35:*.eps=01;35:*.eps=01;35:*.eps=01;35:*.eps=01;35:*.eps=01;35:*.eps=01;35:*.eps=01;35:*.eps=01;35:*.eps=01;35:*.eps=01;35:*.eps=01;35:*.eps=01;35:*.eps=01;35:*.eps=01;35:*.eps=01;35:*.eps=01;35:*.eps=01;35:*.eps=01;35:*.eps=01;35:*.eps=01;35:*.eps=01;35:*.eps=01;35:*.eps=01;35:*.eps=01;35:*.eps=01;35:*.eps=01;35:*.eps=01;35:*.eps=01;35:*.eps=01;35:*.eps=01;35:*.eps=01;35:*.eps=01;35:*.eps=01;35:*.eps=01;35:*.eps=01;35:*.eps=01;35:*.eps=01;35:*.eps=01;35:*.eps=01;35:*.eps=01;35:*.eps=01;35:*.eps=01;35:*.eps=01;35:*.eps=01;35:*.eps=01;35:*.eps=01;35:*.eps=01;35:*.eps=01;35:*.eps=01;35:*.eps=01;35:*.eps=01;35:*.eps=01;35:*.eps=01;35:*.eps=01;35:*.eps=01;35:*.eps=01;35:*.eps=01;35:*.eps=01;35:*.eps=01;35:*.eps=01;35:*.eps=01;35:*.eps=01;35:*.eps=01;35:*.eps=01;35:*.eps=01;35:*.eps=01;35:*.eps=01;35:*.eps=01;35:*.eps=01;35:*.eps=01;35:*.eps=01;35:*.eps=01;35:*.eps=01;35:*.eps=01;35:*.eps=01;35:*.eps=01;35:*.eps=01;35:*.eps=01;35:*.eps=01;35:*.eps=01;35:*.eps=01;35:*.eps=01;35:*.eps=01;35:*.eps=01;35:*.eps=01;35:*.eps=01;35:*.eps=01;35:*.eps=01;35:*.eps=01;35:*.eps=01;35:*.eps=01;35:*.eps=01;35:*.eps=01;35:*.eps=01;35:*.eps=01;35:*.eps=01;35:*.eps=01;35:*.eps=01;35:*.eps=01;35:*.eps=01;35:*.eps=01;35:*.eps=01;35:*.eps=01;35:*.eps=01;35:*.eps=01;35:*.eps=01;35:*.eps=01;35:*.eps=01;35:*.eps=01;35:*.eps=01;35:*.eps=01;35:*.eps=01;35:*.eps=01;35:*.eps=01;35:*.eps=01;35:*.eps=01;35:*.eps=01;35:*.eps=01;35:*.eps=01;35:*.eps=01;35:*.eps=01;35:*.eps=01;35:*.eps=01;35:*.eps=01;35:*.eps=01;35:*.eps=01;35:*.eps=01;35:*.eps=01;35:*.eps=01;35:*.eps=01;35:*.eps=01;35:*.eps=01;35:*.eps=01;35:*.eps=01;35:*.eps=01;35:*.eps=01;35:*.eps=01;35:*.eps=01;35:*.eps=01;35:*.eps=01;35:*.eps=01;35:*.eps=01;35:*.eps=01;35:*.eps=01;35:*.eps=01;35:*.eps=01;35:*.eps=01;35:*.eps=01;35:*.eps=01;35:*.eps=01;35:*.eps=01;35:*.eps=01;35:*.eps=01;35:*.eps=01;35:*.eps=01;35:*.eps=01
```

Prompt 8:Next, head into the workshop.

Command: cd workshop

Explanation: change direcectory into the workshop directory

Prompt 9: A munchkin is hiding in one of the workshop toolboxes. Use "grep" while ignoring case to find which toolbox the munchkin is in.

Command: grep -ri munchkin

Explanation: the grep command is a powerful search tool that hunts for words or phrases inside a file. The -r stands for recursive which means not just the current directory but it can also look through sub directories. -i stand for ignore case

```
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Prompt 10: A munchkin is blocking the lollipop_engine from starting. Run the lollipop_engine binary to retrieve this munchkin.

Command: chmod +x lollipop_engine, ./lollipop_engine

Explanation: the first command changes the permissions of lollipop engine to make it executable. The second command runs the lollipop_engine program

```
NOSTUMNE-dicht3ea3aa
GREHSTATUSPRETEXA-LOllipps
USER-elf
HRUJERUMNE-bcr0015
PAUP-/home/elf
PAUR-/home/elf
NUKE-/lyncw/elf
NUKE-/lyncw/elf
NUKE-/lyncw/elf
NUKE-/lyncw/elf
NUKE-/lyncw-los9/default,17,0
BPUSER-elf
Z MANGKIN-munchkin 202406409541603754
LOCATION-15,12
RESJURGE_ID-df-d9oebf-9095-40cb-99b2-5b40c79fb670
MAIL-/var/mail/elf
SHELL-/bin/bash
IERM-screen
NUMUT-3600
NUKL PANE-&Z
SHIVI-3
BPUSERIVME-/home/elf
SESSIAWE-Home/elf
SESSIAWE-Home/local/bin:/usr/sbin:/usr/sbin:/bin:/usr/games:/usr/local/games:/snap/bin
LESSORDH-| /usr/bin/lesspipe %s
_/usr/bin/env
LESSORDH-| /usr/bin/lesspipe %s
_/usr/bin/env
Lessord-saaaas-/workshops
| Lessord-saaaas-/workshops grep -ri munchkin
toolbox | 1, tt: mUnchkin, 4095180441832623
elf@decbla3asaas-/workshops from - inunchkin
toolbox | 1, tt: mUnchkin, 4095180441832623
elf@decbla3asaas-/workshops from - inunchkin
toolbox | 1, tt: mUnchkin, 4095180441832623
elf@decbla3asaas-/workshops from - inunchkin
toolbox | 1, tt: mUnchkin, 4095180441832623
elf@decbla3asaas-/workshops from - inunchkin
toolbox | 1, tt: mUnchkin, 4095180441832623
elf@decbla3asaas-/workshops from - inunchkin
toolbox | 1, tt: mUnchkin, 4095180441832623
elf@decbla3asaas-/workshops from - inunchkin
toolbox | 1, tt: mUnchkin, 4095180441832623
elf@decbla3asaas-/workshops from - inunchkin
toolbox | 1, tt: mUnchkin, 4095180441832623
elf@decbla3asaas-/workshops from - inunchkin
toolbox | 1, tt: mUnchkin, 4095180441832623
elf@decbla3asaas-/workshops from - inunchkin
toolbox | 1, tt: mUnchkin, 4095180441832623
elf@decbla3asaas-/workshops from - inunchkin
toolbox | 1, tt: mUnchkin, 4095180441832623
elf@decbla3asaas-/workshops from - inunchkin
toolbox | 1, tt: mUnchkin, 4095180441832623
elf@decbla3asaas-/workshops from - inunchkin
toolbox | 1, tt: mUnchkin, 4095180441832623
elf@decbla3asaas-/workshops from - inunchkin
toolbox | 1, tt: mUnchkin, 4095180441832623
elf@decbla3asaas-/workshops from - inunchkin
toolbox | 1, tt: mUnchkin, 4095180441832623
elf@decbla3asaas-/workshops from - inunchkin
toolbox | 1, tt: mUnchkin, 4
```

Prompt 11: Munchkins have blown the fuses in /home/elf/workshop/electrical. cd into electrical and rename blown_fuse0 to fuse0.

Command: cd electrical, mv blown_fuse0 fuse0

Explanation: the first command enters the eletrical directory. The second command uses the move command to rename the file as fuse0

Prompt 12: Now, make a symbolic link (symlink) named fuse1 that points to fuse0 Command: In -s fuse0 fuse1

Explanation: Uses the In command with the -s or symbolic option to create a shortcut between fuse0 and fuse 1 so that when you goto fuse1 it accesses fuse0

Prompt 13:Make a copy of fuse1 named fuse2.

Command: cp fuse1 fuse2

Explanation: creates a copy of fuse1 called fuse2

Prompt 14: We need to make sure munchkins don't come back. Add the characters "MUNCHKIN_REPELLENT" into the file fuse2.

Command: echo MUNCHKIN_REPELLENT > fuse2

Explanation: the echo command is used to print text to a terminal or a file. This way using the pointer is overwrites the text in fuse2 to be MUNCHKIN_REPELLENT

```
LOGNAME-elf
PATH-/usr/local/bin:/usr/bin:/usr/bin:/usr/bin:/usr/bin:/usr/games:/usr/local/games:/snap/bin
LESSOPHE| /usr/bin/elsspipe %S
_-/usr/bin/elm
_-/u
```

Prompt 15: Find the munchkin somewhere in /opt/munchkin_den.

Command: find /opt/munchkin_den -iname *munchkin* -type f

Explanation: the find command searches within directories. The -iname searches a non cas sensitive search for names -type f searches to find files only

```
| PMDS/Pap/Tamur-1950/default,18.0 |
| PMDS/PAP/
```

Prompt 16: Find the file somewhere in /opt/munchkin_den that is owned by the user munchk Command: find /opt/munchkin_den -user munchkin

Explanation: uthe command used in prompt 15 but searches for any files belonging to the user munchkin using -user

```
Z_MINCHKIN-munchkin_20249649541603754
LUCATION_15_15
LUCATION_15_1
```

Prompt 17: Find the file created by munchkins that is greater than 108 kilobytes and less than 110 kilobytes located somewhere in /opt/munchkin_den.

Command:find /opt/munchkin_den/ -size +108k -size -110k

Explanation:using the find command search in /opt/munchkin_den/ directory for files larger than 108k and smaller than -110k bytes

```
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```

Prompt 18: List running processes to find another munchkin.

Command: ps -e

Explanations: the ps command shows all the processes or task currently running on a computer. The -e shows all processes not just ones for current user

```
INMX_PANE-X2
SHLVL-4
SHUSHRIMCR-/home/elf
SEXSAWS-thunchkin wrangler
SEXSAWS-thunchkin wrangler
SEXSAWS-thunchkin wrangler
SEXSAWS-thunchkin wrangler
SEXSAWS-thunchkin wrangler
SEXSAWS-thunchkin / Sexpipe Xs
-/usr/bin/nev
-/us
```

Prompt 19: The 14516_munchkin process is listening on a tcp port. Use a command to have the only listening port display to the screen.

Command: netstat -l

Explanations: the netstat command is a tool that inspects network related information. The -l option specifically shows a list of listening ports

```
__/usr/bin/env
el.fefi18844510541-5 cd workshop
el.fefi18844510541-5 cd workshops
grep -ri munchkin
foolbox 191.txt munchkin Ab9518844832623
el.fefi18845310541-5 workshops cland +xt lollipp_engine
el.fefi18845310541-5 workshops cland +xt lollipp_engine
munchkin A89898918949907
el.fefi18845310541-5 workshopy el.ectrical in x fuseo fuseo
el.fefi18845310541-5 workshopy el.ectrical in x fuseo
el.fefi18845310541-5 workshopy el.fetrical in x fuseo
el.fefi188
```

Prompt 20: The service listening on port 54321 is an HTTP server. Interact with this server to retrieve the last munchkin.

Command: curl http://localhost:54321

Explanations: the curl command usd to transfer data to or from a server. This makes a request to listn to the server at localhost on port 54321

Prompt 21: TYour final task is to stop the 14516_munchkin process to collect the remaining lollipops.

Command: ps aux, kill -9 6316

Explanations:the ps aux command is used to list all processes running. Then the kill command is used with the-9 command to forecfully terminiate the process ID 6316 for 14516_munchkin processs

```
elf@eseedd13a8:-/workshop$ cd electrical
elf@eseedd13a8:-/workshop$electrical$ in -s fuse0 fuse0
elf@eseedd13a8:-/workshop/electrical$ in -s fuse0 fuse0
elf@eseedd13a8:-/workshop/electrical$ cp fuse1 fuse0
elf@eseedd13a8:-/workshop/electrical$ cp fuse1 fuse0
elf@eseedd13a8:-/workshop/electrical$ cp fuse1 fuse0
elf@eseedd13a8:-/workshop/electrical$ fine opt/munchkind net -inname "munchkin" -type f
elf@eseedd13a8:-/workshop/electrical$ fine opt/munchkind net -inname "munchkin" -type f
elf@eseedd13a8:-/workshop/electrical$ fine opt/munchkind net -inname "munchkin" -type f
elf@eseedd13a8:-/workshop/electrical$ fine opt/munchkind net -inname "munchkind" -type f
elf@eseedd13a8:-/workshop/electrical$ fine opt/munchkind net -inname munchkind net
```