Friday, December 22, 2023 11:31 PM

Difficulty: Level 1

Visit Ginger Breddie in Santa's Shack on Christmas Island to help him with some basic Linux tasks. It's in the southwest corner of Frosty's Beach.

CONVERSATION w/ Elf Ginger Breddie	Ginger Breddie (Santa's Surf Shack)  Hey, welcome to Santa's Surf Shack on tropical Christmas Island! I'm just hanging ten here, taking it easy while brushing up on my Linux skills.  You ever tried getting into Linux? It's a super cool way to play around with computers.  Can you believe ChatNPT suggested this trip to the Geese Islands this year? I'm so thrilled!  Kudos to ChatNPT, eh? The sunshine, the waves, and my surfboard – simply loving it!  So, what do you have planned? Care to join me in a Linux session?  **
HINTS	

The North Pole ff Present Maker:

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

## MY WORK AND ANSWER

This challenge provided a good refresher on Linux commands. I leveraged MS AI tool to help with the command line involving file size. of the commands.

Perform a directory listing of your home directory to find a troll and retrieve a present!	elf@2772f35fef52:~\$ ls -la total 68 drwxr-xr-x 1 elf elf 4096 Dec 2 22:19. drwxr-xr-x 1 root root 4096 Dec 2 22:19rw-rr 1 elf elf 28 Dec 2 22:19.bash_history -rw-rr 1 elf elf 220 Feb 25 2020.bash_logout -rw-rr 1 elf elf 3105 Nov 20 18:04.bashrc -rw-rr 1 elf elf 807 Feb 25 2020.profile -rw-rr 1 elf elf 168 Nov 20 18:04 HELP -rw-rr 1 elf elf 24 Dec 2 22:19 troll_19315479765589239 drwxr-xr-x 1 elf elf 24576 Dec 2 22:19 workshop
Now find the troll inside the troll.	elf@2772f35fef52:~\$ cat troll_19315479765589239 troll_24187022596776786
Great, now remove the troll in your home directory.	elf@2772f35fef52:~\$ rm troll_19315479765589239
Print the present working directory.	elf@2772f35fef52:~\$ pwd /home/elf
Good job but it looks like another troll hid itself in your home directory. Find the hidden troll!	elf@2772f35fef52:~\$ ls -la  total 64  drwxr-xr-x 1 elf elf 4096 Dec 23 12:43 .  drwxr-xr-x 1 root root 4096 Dec 2 22:19  -rw-rr 1 elf elf 28 Dec 2 22:19 .bash_history  -rw-rr 1 elf elf 220 Feb 25 2020 .bash_logout  -rw-rr 1 elf elf 3105 Nov 20 18:04 .bashrc  -rw-rr 1 elf elf 807 Feb 25 2020 .profile  -rw-rr 1 elf elf 0 Dec 23 12:43 .troll_5074624024543078  -rw-rr 1 elf elf 168 Nov 20 18:04 HELP  drwxr-xr-x 1 elf elf 24576 Dec 2 22:19 workshop
Excellent, now find the troll in your command history.	elf@2772f35fef52:~\$ history 1 echo troll_9394554126440791 2 ls -la 3 cat troll_19315479765589239 4 rm troll_19315479765589239 5 pwd

	6 Is -la 7 history
Find the troll in your environment variables.	elf@2772f35fef52:~\$ emv TROLL=troll_20249649541603754 HOME=/home/elf LANG=C.UTF-8 LS_COLORS=rs=0:di=01;34:ln=01;36:mh=00:pi=40;33:so=01;35:do=01;35:bd=40;33;01:cd=40;33;01:or= 40;31;01:mi=00:su=37;41:sg=30;43:ca=30;41:tw=30;42:cw=34;42:st=37;44:ex=01;32:*tar=01;31:*tgz=01;31:* *.arc=01;31:*.arj=01;31:*.taz=01;31:*.ba=01;31:*.laz=01;31:*.lz
Next, head into the workshop	_=/usr/bin/env elf@2772f35fef52:~\$ cd workshop elf@2772f35fef52:~/workshop\$
A troll is hiding in one of the workshop toolboxes. Use "grep" while ignoring case to find which toolbox the troll is in.  Multiple toolboxes found via a poking around the directory structure (see bottom of page)	elf@2772f35fef52:~/workshop\$ grep -li "troll" * grep: electrical: Is a directory toolbox_191.txt elf@2772f35fef52:~/workshop\$ elf@2772f35fef52:~/workshop\$ cat toolbox_191.txt tRoLl.4056180441832623
A troll is blocking the present_engine from starting. Run the present_engine binary to retrieve this troll.  Make the binary executable by running "chmod 755 <filename>". Each number (7,5,5) represents (owner, group, everyone) and each is the sum of the desired permissions (4=read, 2=write, 1=executable).</filename>	elf@2772f35fef52:~/workshop\$./present_engine bash: ./present_engine: Permission denied  elf@2772f35fef52:~/workshop\$ ls -l ./present_engine -rr 1 elf elf 4990336 Dec 2 22:19 ./present_engine  elf@2772f35fef52:~/workshop\$ chmod 755 ./present_engine elf@2772f35fef52:~/workshop\$ ls -l ./present_engine -rwxr-xr-x 1 elf elf 4990336 Dec 2 22:19 ./present_engine -rwxr-xr-x1 elf elf 4990336 Dec 2 22:19 ./present_engine
To start the program from the current directory run "./present_engine". A backup of this file is at /opt/present_engine.	troll.898906189498077
Trolls have blown the fuses in /home/elf/workshop/electrical. cd into electrical and rename blown_fuse0 to fuse0.	elf@2772f35fef52:~/workshop\$ cd electrical elf@2772f35fef52:~/workshop/electrical\$ mv blown_fuse0 fuse0 elf@2772f35fef52:~/workshop/electrical\$ ls -la total 20 drwxr-xr-x 1 elf elf 4096 Dec 23 13:05 . drwxr-xr-x 1 elf elf 4096 Dec 2 22:19rw-r 1 elf elf 200 Dec 2 22:19 fuse0

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elf@2772f35fef52:~/workshop/electrical$ ls -la
named fuse1 that points to fuse0
                                                                               total 20
                                                                               drwxr-xr-x 1 elf elf 4096 Dec 23 13:08.
                                                                               drwxr-xr-x 1 elf elf 4096 Dec 2 22:19 ..
                                                                               -rw-r--r-- 1 elf elf 200 Dec 2 22:19 fuse0
                                                                               lrwxrwxrwx 1 elf elf 5 Dec 23 13:08 fuse1 -> fuse0
Make a copy of fuse1 named fuse2.
                                                                               elf@2772f35fef52:~/workshop/electrical$ cp fuse1 fuse2
                                                                               elf@2772f35fef52:~/workshop/electrical$ ls -la
                                                                               total 24
                                                                               drwxr-xr-x 1 elf elf 4096 Dec 23 13:09.
                                                                               drwxr-xr-x 1 elf elf 4096 Dec 2 22:19 ..
                                                                               -rw-r--r-- 1 elf elf 200 Dec 2 22:19 fuse0
                                                                               Irwxrwxrwx 1 elf elf 5 Dec 23 13:08 fuse1 -> fuse0
                                                                               -rw-r--r-- 1 elf elf 200 Dec 23 13:09 fuse2
We need to make sure trolls don't come elf@2772f35fef52:~/workshop/electrical$ echo "TROLL_REPELLENT" >> fuse2
back. Add the characters
                                                                               elf@2772f35fef52:~/workshop/electrical$ cat fuse2
"TROLL REPELLENT" into the file fuse2.
                                                                               elf@2772f35fef52:~/workshop/electrical$ cat fuse2
                                                                               l9 #PbZυ
                                                                                      ,ZJ
                                                                               ubĽ>2YB~$"y+o((5Mc\jx4@쮕yp@]?
                                                                               L
                                                                                2sIA_X}@*!
                                                                               r&0;0%))&<mX(°[TROLL_REPELLENT
Find the troll somewhere in
                                                                               Changes directories and did list until found folder opt
                                                                               elf@2772f35fef52:/home$ cd ..
/opt/troll_den.
                                                                               elf@2772f35fef52:/$ ls -la
                                                                               total 88
                                                                               drwxr-xr-x 1 root root 4096 Dec 23 12:38.
                                                                               drwxr-xr-x 1 root root 4096 Dec 23 12:38 ..
                                                                               -rwxr-xr-x 1 root root 0 Dec 23 12:38 .dockerenv
                                                                               Irwxrwxrwx 1 root root 7 Nov 28 02:03 bin -> usr/bin
                                                                               drwxr-xr-x 2 root root 4096 Apr 15 2020 boot
                                                                               drwxr-xr-x 5 root root 360 Dec 23 12:38 dev
                                                                               drwxr-xr-x 1 root root 4096 Dec 23 12:38 etc
                                                                               drwxr-xr-x 1 root root 4096 Dec 2 22:19 home
                                                                               lrwxrwxrwx 1 root root 7 Nov 28 02:03 lib -> usr/lib
                                                                               lrwxrwxrwx 1 root root 9 Nov 28 02:03 lib32 -> usr/lib32
                                                                               lrwxrwxrwx 1 root root 9 Nov 28 02:03 lib64 -> usr/lib64
                                                                                lrwxrwxrwx 1 root root 10 Nov 28 02:03 libx32 -> usr/libx32
                                                                               drwxr-xr-x 2 root root 4096 Nov 28 02:03 media
                                                                               drwxr-xr-x 2 root root 4096 Nov 28 02:03 mnt
                                                                               drwxr-xr-x 1 root root 4096 Dec 2 22:19 opt
                                                                               dr-xr-xr-x 200 root root 0 Dec 23 12:38 proc
                                                                               drwx----- 1 root root 4096 Dec 2 22:19 root
                                                                               drwxr-xr-x 1 root root 4096 Nov 28 02:06 run
                                                                               Irwxrwxrwx 1 root root 8 Nov 28 02:03 sbin -> usr/sbin
                                                                               drwxr-xr-x 2 root root 4096 Nov 28 02:03 srv
                                                                               dr-xr-xr-x 13 root root 0 Dec 23 12:38 sys
                                                                               drwxrwxrwt 1 root root 4096 Dec 23 13:02 tmp
                                                                               drwxr-xr-x 1 root root 4096 Nov 28 02:03 usr
                                                                               drwxr-xr-x 1 root root 4096 Dec 2 22:19 var
                                                                               elf@2772f35fef52:/$ cd opt
                                                                               elf@2772f35fef52:/opt$ cd troll_den
                                                                               elf@2772f35fef52:/opt/troll_den$ grep -li "troll" *
                                                                               LICENSE
                                                                               grep: apps: Is a directory
                                                                               grep: assembly: Is a directory
                                                                               grep: bom: Is a directory
                                                                               grep: bundles: Is a directory
                                                                               grep: core: Is a directory
                                                                               grep: plugins: Is a directory
                                                                               grep: src: Is a directory
                                                                               elf@2772f35fef52:/opt/troll_den$ find /opt/troll_den -iname '*troll*'
                                                                               /opt/troll den
                                                                               /opt/troll\_den/plugins/embeddedjsp/src/main/java/org/apache/struts2/jasper/compiler/ParserController.java/org/apache/struts2/jasper/compiler/ParserController.java/org/apache/struts2/jasper/compiler/ParserController.java/org/apache/struts2/jasper/compiler/ParserController.java/org/apache/struts2/jasper/compiler/ParserController.java/org/apache/struts2/jasper/compiler/ParserController.java/org/apache/struts2/jasper/compiler/ParserController.java/org/apache/struts2/jasper/compiler/ParserController.java/org/apache/struts2/jasper/compiler/ParserController.java/org/apache/struts2/jasper/compiler/ParserController.java/org/apache/struts2/jasper/compiler/ParserController.java/org/apache/struts2/jasper/compiler/ParserController.java/org/apache/struts2/jasper/compiler/parserController.java/org/apache/struts2/jasper/compiler/parserController.java/org/apache/struts2/jasper/compiler/parserController.java/org/apache/struts2/jasper/compiler/parserController.java/org/apache/struts2/jasper/compiler/parserController.java/org/apache/struts2/jasper/controller.java/org/apache/struts2/jasper/controller.java/org/apache/struts2/jasper/controller.java/org/apache/struts2/jasper/controller.java/org/apache/struts2/jasper/controller.java/org/apache/struts2/jasper/controller.java/org/apache/struts2/jasper/controller.java/org/apache/struts2/jasper/controller.java/org/apache/struts2/jasper/controller.java/org/apache/struts2/jasper/controller.java/org/apache/struts2/jasper/controller.java/org/apache/struts2/jasper/controller.java/org/apache/struts2/jasper/controller.java/org/apache/struts2/jasper/controller.java/org/apache/struts2/jasper/controller.java/org/apache/struts2/jasper/controller.java/org/apache/struts2/jasper/controller.java/org/apache/struts2/jasper/controller.java/org/apache/struts2/jasper/controller.java/org/apache/struts2/jasper/controller.java/org/apache/struts2/jasper/controller.java/org/apache/struts2/jasper/controller.java/org/apache/struts2/jasper/controller.java/org/apache/struts2/jasper/controller.java/org/apache/struts2
```

	/opt/troll_den/apps/showcase/src/main/resources/tRoLl.6253159819943018 /opt/troll_den/apps/rest-showcase/src/main/java/org/demo/rest/example/IndexController.java /opt/troll_den/apps/rest-showcase/src/main/java/org/demo/rest/example/OrdersController.java	
Find the file somewhere in /opt/troll_den that is owned by the user troll.	elf@2772f35fef52:/opt/troll_den\$ find /opt/troll_den -user troll	
"find /some/directory -user example" would find any directory owned by a user named "example".		
Find the file created by trolls that is greater than 108 kilobytes and less than 110 kilobytes located somewhere in /opt/troll_den.  try this:   find * -size +108k -size -110k	elf@2772f35fef52:/opt/troll_den\$ find /opt/troll_den-size +180 /opt/troll_den/bundles/admin/src/main/resources/static/js/jquery-ui-1.12.1.min.js /opt/troll_den/bundles/admin/src/main/resources/static/js/jquery-1.12.4.min.js /opt/troll_den/plugins/portlet-mocks/src/test/java/org/apache/struts2/StrutsSpringPortletMockObjectsTest.ja /opt/troll_den/plugins/portlet-mocks/src/test/java/org/apache/t_r_o_l_l_2579728047101724 /opt/troll_den/plugins/embeddedjsp/src/main/java/org/apache/struts2/jasper/compiler/Generator.java /opt/troll_den/apps/showcase/src/main/webapp/fonts/glyphicons-halflings-regular.svg /opt/troll_den/apps/showcase/src/main/webapp/styles/bootstrap.min.css /opt/troll_den/apps/showcase/src/main/webapp/styles/bootstrap.css.map /opt/troll_den/apps/rest-showcase/src/main/webapp/fonts/glyphicons-halflings-regular.svg /opt/troll_den/apps/rest-showcase/src/main/webapp/fonts/glyphicons-halflings-regular.svg /opt/troll_den/apps/rest-showcase/src/main/webapp/fonts/glyphicons-halflings-regular.svg /opt/troll_den/apps/rest-showcase/src/main/webapp/css/bootstrap.css /opt/troll_den/apps/rest-showcase/src/main/webapp/css/bootstrap.css /opt/troll_den/apps/rest-showcase/src/main/webapp/css/bootstrap.css /opt/troll_den/apps/rest-showcase/src/main/webapp/css/bootstrap.css /opt/troll_den/core/src/test/java/org/apache/struts2/views/jsp/URLTagTest.java /opt/troll_den/core/src/test/java/org/apache/struts2/views/jsp/URLTagTest.java /opt/troll_den/core/src/test/java/org/apache/struts2/views/jsp/ui/FormTagTest.java /opt/troll_den/.git/objects/pack/pack-2fcf66abc63caea69200e86258c180c8ee117c68.pack /opt/troll_den/.git/objects/pack/pack-2fcf66abc63caea69200e86258c180c8ee117c68.idx  elf@2772f35fef52:/opt/troll_den\$ find /opt/troll_den -size 110 >long list>	
List running processes to find another troll.	elf@2772f35fef52:/opt/troll_den\$ ps -aux USER PID %CPU %MEM VSZ RSS TTY STAT START TIME COMMAND init 1 0.0 0.0 20112 16468 pts/0 Ss+ 12:38 0:00 /usr/bin/python3 /usr/local/bin/tmuxp load ./mysession.yaml elf 30453 0.0 0.0 31520 26924 pts/2 S+ 13:29 0:00 /usr/bin/python3 /14516_troll elf 32777 0.0 0.0 7672 3268 pts/3 R+ 13:33 0:00 ps -aux	
The 14516_troll process is listening on a TCP port. Use a command to have the only listening port display to the screen.	elf@2772f35fef52:/opt/troll_den\$ netstat -napt (Not all processes could be identified, non-owned process info will not be shown, you would have to be root to see it all.) Active Internet connections (servers and established) Proto Recv-Q Send-Q Local Address Foreign Address State PID/Program name tcp 0 00.0.0.0:54321 0.0.0.0:* LISTEN 30453/python3	
The service listening on port 54321 is an HTTP server. Interact with this server to retrieve the last troll.	@c30bb662fc7c:/opt/troll_den\$ curl http://localhost:54321 troll.73180338045875elf@c30bb662fc7c:/opt/troll_den\$	
Your final task is to stop the 14516_troll process to collect the remaining presents.  The "kill" command can be used to kill a process.	elf@2772f35fef52:/opt/troll_den\$ ps -aux  USER PID %CPU %MEM VSZ RSS TTY STAT START TIME COMMAND  init 1 0.0 0.0 20112 16512 pts/0 Ss+ 13:39 0:00 /usr/bin/python3 /usr/local/bin/tmuxp  load ./mysession.yaml  elf 5947 0.0 0.0 105616 27572 pts/2 S+ 13:49 0:00 /usr/bin/python3 /14516_troll  elf 19475 0.0 0.0 7672 3268 pts/3 R+ 14:11 0:00 ps -aux  If@2772f35fef52:/opt/troll_den\$ kill -l	
	1) SIGHUP 2) SIGINT 3) SIGQUIT 4) SIGILL 5) SIGTRAP 6) SIGABRT 7) SIGBUS 8) SIGFPE 9) SIGKILL 10) SIGUSR1 11) SIGSEGV 12) SIGUSR2 13) SIGPIPE 14) SIGALRM 15) SIGTERM 16) SIGSTKFLT 17) SIGCHLD 18) SIGCONT 19) SIGSTOP 20) SIGTSTP 21) SIGTTIN 22) SIGTTOU 23) SIGURG 24) SIGXCPU 25) SIGXFSZ 26) SIGVTALRM 27) SIGPROF 28) SIGWINCH 29) SIGIO 30) SIGPWR 31) SIGSYS 34) SIGRTMIN 35) SIGRTMIN+1 36) SIGRTMIN+2 37) SIGRTMIN+3 38) SIGRTMIN+4 39) SIGRTMIN+5 40) SIGRTMIN+6 41) SIGRTMIN+7 42) SIGRTMIN+8 43) SIGRTMIN+9 44) SIGRTMIN+10 45) SIGRTMIN+11 46) SIGRTMIN+12 47) SIGRTMIN+13 48) SIGRTMIN+14 49) SIGRTMIN+15 50) SIGRTMAX-14 51) SIGRTMAX-13 52) SIGRTMAX-12 53) SIGRTMAX-11 54) SIGRTMAX-10 55) SIGRTMAX-9 56) SIGRTMAX-8 57) SIGRTMAX-7 58) SIGRTMAX-6 59) SIGRTMAX-5 60) SIGRTMAX-4 61) SIGRTMAX-3 62) SIGRTMAX-2 63) SIGRTMAX-1 64) SIGRTMAX	

elf@2772f35fef52:/opt/troll\_den\$ kill -9 5947

Congratulations, you caught all the trolls and retrieved all the presents! Type "exit" to close...

Poking Around the directories -

Multiple toolboxes found:

toolbox\_12.txt toolbox\_166.txt toolbox\_211.txt toolbox\_258.txt toolbox\_303.txt toolbox\_35.txt toolbox\_396.txt toolbox\_441.txt toolbox\_488.txt toolbox\_

toolbox\_120.txt toolbox\_167.txt toolbox\_212.txt toolbox\_259.txt toolbox\_304.txt toolbox\_350.txt toolbox\_397.txt toolbox\_442.txt toolbox\_489.txt toolbox\_ 84.txt

toolbox\_121.txt toolbox\_168.txt toolbox\_213.txt toolbox\_26.txt toolbox\_305.txt toolbox\_351.txt toolbox\_398.txt toolbox\_443.txt toolbox\_49.txt toolbox\_

toolbox 122.txt toolbox 169.txt toolbox 214.txt toolbox 260.txt toolbox 306.txt toolbox 352.txt toolbox 399.txt toolbox 444.txt toolbox 490.txt toolbox

toolbox\_123.txt toolbox\_17.txt toolbox\_215.txt toolbox\_261.txt toolbox\_307.txt toolbox\_353.txt toolbox\_4.txt toolbox\_445.txt toolbox\_491.txt toolbox\_87.txt toolbox\_124.txt toolbox\_170.txt toolbox\_216.txt toolbox\_262.txt toolbox\_308.txt toolbox\_354.txt toolbox\_40.txt toolbox\_446.txt toolbox\_492.txt toolbox\_

toolbox\_125.txt toolbox\_171.txt toolbox\_217.txt toolbox\_263.txt toolbox\_309.txt toolbox\_355.txt toolbox\_400.txt toolbox\_447.txt toolbox\_493.txt toolbox\_ 89.txt

toolbox\_126.txt toolbox\_172.txt toolbox\_218.txt toolbox\_264.txt toolbox\_31.txt toolbox\_356.txt toolbox\_401.txt toolbox\_448.txt toolbox\_494.txt toolbox\_9.txt toolbox\_127.txt toolbox\_173.txt toolbox\_219.txt toolbox\_265.txt toolbox\_310.txt toolbox\_357.txt toolbox\_402.txt toolbox\_449.txt toolbox\_495.txt toolbox\_

toolbox 128.txt toolbox 174.txt toolbox 22.txt toolbox 266.txt toolbox 311.txt toolbox 358.txt toolbox 403.txt toolbox 45.txt toolbox 496.txt toolbox 91.txt

toolbox\_129.txt toolbox\_175.txt toolbox\_220.txt toolbox\_267.txt toolbox\_312.txt toolbox\_359.txt toolbox\_404.txt toolbox\_450.txt toolbox\_497.txt toolbox\_ 92.txt

toolbox\_13.txt\_toolbox\_176.txt\_toolbox\_221.txt\_toolbox\_268.txt\_toolbox\_313.txt\_toolbox\_36.txt\_toolbox\_405.txt\_toolbox\_451.txt\_toolbox\_498.txt\_toolbox\_ 93.txt

toolbox\_130.txt toolbox\_177.txt toolbox\_222.txt toolbox\_269.txt toolbox\_314.txt toolbox\_360.txt toolbox\_406.txt toolbox\_452.txt toolbox\_499.txt toolbox\_

toolbox\_131.txt toolbox\_178.txt toolbox\_223.txt toolbox\_27.txt toolbox\_315.txt toolbox\_361.txt toolbox\_407.txt toolbox\_453.txt toolbox\_5.txt toolbox\_95.txt toolbox\_132.txt toolbox\_179.txt toolbox\_224.txt toolbox\_270.txt toolbox\_316.txt toolbox\_362.txt toolbox\_408.txt toolbox\_454.txt toolbox\_50.txt toolbox\_

toolbox\_133.txt toolbox\_18.txt toolbox\_225.txt toolbox\_271.txt toolbox\_317.txt toolbox\_363.txt toolbox\_409.txt toolbox\_455.txt toolbox\_500.txt toolbox\_

toolbox\_134.txt toolbox\_180.txt toolbox\_226.txt toolbox\_272.txt toolbox\_318.txt toolbox\_364.txt toolbox\_41.txt toolbox\_456.txt toolbox\_51.txt toolbox\_

toolbox\_135.txt toolbox\_181.txt toolbox\_227.txt toolbox\_273.txt toolbox\_319.txt toolbox\_365.txt toolbox\_410.txt toolbox\_457.txt toolbox\_52.txt toolbox\_

toolbox\_136.txt toolbox\_182.txt toolbox\_228.txt toolbox\_274.txt toolbox\_32.txt toolbox\_366.txt toolbox\_411.txt toolbox\_458.txt toolbox\_53.txt toolbox\_137.txt toolbox\_183.txt toolbox\_229.txt toolbox\_275.txt toolbox\_320.txt toolbox\_367.txt toolbox\_412.txt toolbox\_459.txt toolbox\_54.txt toolbox\_138.txt toolbox\_184.txt toolbox\_23.txt toolbox\_276.txt toolbox\_321.txt toolbox\_368.txt toolbox\_413.txt toolbox\_46.txt toolbox\_55.txt toolbox\_139.txt toolbox\_185.txt toolbox\_230.txt toolbox\_277.txt toolbox\_322.txt toolbox\_369.txt toolbox\_414.txt toolbox\_460.txt toolbox\_56.txt toolbox\_14.txt\_toolbox\_186.txt\_toolbox\_231.txt\_toolbox\_278.txt\_toolbox\_323.txt\_toolbox\_37.txt\_toolbox\_415.txt\_toolbox\_461.txt\_toolbox\_57.txt\_ toolbox\_140.txt toolbox\_187.txt toolbox\_232.txt toolbox\_279.txt toolbox\_324.txt toolbox\_370.txt toolbox\_416.txt toolbox\_462.txt toolbox\_58.txt toolbox\_141.txt toolbox\_188.txt toolbox\_233.txt toolbox\_28.txt toolbox\_325.txt toolbox\_371.txt toolbox\_417.txt toolbox\_463.txt toolbox\_59.txt

## More exploration of directories:

:/home\$ cd .. :/\$ Is -la total 88 drwxr-xr-x 1 root root 4096 Dec 23 07:17. drwxr-xr-x 1 root root 4096 Dec 23 07:17.. -rwxr-xr-x 1 root root 0 Dec 23 07:17 .dockerenv Irwxrwxrwx 1 root root 7 Nov 28 02:03 bin -> usr/bin drwxr-xr-x 2 root root 4096 Apr 15 2020 boot drwxr-xr-x 5 root root 360 Dec 23 07:17 dev drwxr-xr-x 1 root root 4096 Dec 23 07:18 etc drwxr-xr-x 1 root root 4096 Dec 2 22:19 home Irwxrwxrwx 1 root root 7 Nov 28 02:03 lib -> usr/lib lrwxrwxrwx 1 root root 9 Nov 28 02:03 lib32 -> usr/lib32 drwxr-xr-x 1 elf elf 24576 Dec 2 22:19 workshop lrwxrwxrwx 1 root root 9 Nov 28 02:03 lib64 -> usr/lib64 lrwxrwxrwx 1 root root 10 Nov 28 02:03 libx32 -> usr/libx32 drwxr-xr-x 2 root root 4096 Nov 28 02:03 media drwxr-xr-x 2 root root 4096 Nov 28 02:03 mnt drwxr-xr-x 1 root root 4096 Dec 2 22:19 opt

:/tmp\$ cd :~\$ Is -la total 68 drwxr-xr-x 1 elf elf 4096 Dec 2 22:19. drwxr-xr-x 1 root root 4096 Dec 2 22:19 .. -rw-r--r-- 1 elf elf 28 Dec 2 22:19 .bash\_history -rw-r--r-- 1 elf elf 220 Feb 25 2020 .bash\_logout -rw-r--r-- 1 elf elf 3105 Nov 20 18:04 .bashrc -rw-r--r-- 1 elf elf 807 Feb 25 2020 .profile -rw-r--r-- 1 elf elf 168 Nov 20 18:04 HELP -rw-r--r-- 1 elf elf 24 Dec 2 22:19 troll\_ 19315479765589239 elf@b0c5947c1303:~\$ rm troll 19315479765589239 Jenkinsfile elf@b0c5947c1303:~\$

:/opt\$ cd troll den :/opt/troll\_den\$ ls -la total 168 drwxr-xr-x 1 root root 4096 Dec 2 22:19. drwxr-xr-x 1 root root 4096 Dec 2 22:19 .. -rw-r--r-- 1 root root 624 Dec 2 22:19 .asf.yaml drwxr-xr-x 8 root root 4096 Dec 2 22:19 .git drwxr-xr-x 3 root root 4096 Dec 2 22:19 .github -rw-r--r-- 1 root root 515 Dec 2 22:19 .gitignore drwxr-xr-x 3 root root 4096 Dec 2 22:19 .mvn -rw-r--r-- 1 root root 81 Dec 2 22:19 CODEOWNERS -rw-r--r-- 1 root root 6821 Dec 2 22:19

-rw-r--r-- 1 root root 11357 Dec 2 22:19 LICENSE -rw-r--r-- 1 root root 1727 Dec 2 22:19

SECURITY.md drwxr-xr-x 1 root root 4096 Dec 2 22:19 apps drwxr-xr-x 3 root root 4096 Dec 2 22:19

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dr-xr-xr-x 201 root root 0 Dec 23 07:17 proc drwx----- 1 root root 4096 Dec 2 22:19 root drwxr-xr-x 1 root root 4096 Nov 28 02:06 run lrwxrwxrwx 1 root root 8 Nov 28 02:03 sbin -> usr/sbin drwxr-xr-x 2 root root 4096 Nov 28 02:03 srv dr-xr-xr-x 13 root root 0 Dec 23 07:17 sys drwxrwxrwt 1 root root 4096 Dec 23 07:18 tmp drwxr-xr-x 1 root root 4096 Nov 28 02:03 usr drwxr-xr-x 1 root root 4096 Dec 2 22:19 var elf@b0c5947c1303:/\$

assembly
drwxr-xr-x 2 root root 4096 Dec 2 22:19 bom
drwxr-xr-x 4 root root 4096 Dec 2 22:19 bundles
drwxr-xr-x 3 root root 4096 Dec 2 22:19 core
-rwxr-xr-x 1 root root 10283 Dec 2 22:19 mvnw
-rw-r--r-- 1 root root 6733 Dec 2 22:19
mvnw.cmd
drwxr-xr-x 1 root root 4096 Dec 2 22:19 plugins
-rw-r--r-- 1 root root 45729 Dec 2 22:19 pom.xml
drwxr-xr-x 5 root root 4096 Dec 2 22:19 src

## Comments of Interest from other Players

NTR