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Assignment 14 System Admin

CYSE270_33410 LINUX SYSTEM FOR CYBERSECURITY

<u>Task A</u>

•							root@jland018:~			$\odot \odot \otimes$
File Acti	ons Edi	t View	Help							
zsh: lock root ps PID T 2037 p 2573 p	ts/1									
(reot ps a PID T 595 t 597 t 1973 p 2037 p 3212 p	ty1 ty7 ts/0 ts/1	STAT Ss+ Ssl+ Ss+ Ss+ Ss	0:21 0:00	/sbin /usr/ /usr/ /usr/	/agetty		∖unoclear tty1 -seat seat0 -auth	itdm/root∕:0 -nol	isten tcp vt7 -	-novtswi
(root ps -f UID root root	jland0 PID 2037 3300	L8)-[~] PPIC 1965 2037	5 0 1		TTY pts/1 pts/1	TIME 00:00:00 00:00:00	/usr/bin/zsh			

In this screenshot I list the processes running in the current shell and list all the processes running on the system.

•					roo	t@jland0	18: ~	$\bigcirc \bigcirc \bigotimes$
File Actions E	dit View	Help						
top:-115:19:58	upe12fmin	/ro1tuser	hload	average:	0.01,	0.25,	0:34 reading anyway	
Tasks: 166 tota					stoppe		zombie	
							, 0.0 si, 0.0 st	
	3.2 total 6.0 total		8 free, Ø free.		/ used,) used.		5.7 buff/cache 4.8 avail Mem	
MID Swap. 97	0.0 LULAL	, 970.	w rree,	0.0	useu.	/10	4.0 avait Meni	
PID USER	PR NI	VIRT	RES	SHR S	%CPU	%MEM	TIME+ COMMAND	
597 root	20 0	366872	117508	48964 S	1.0	1.4	0:23.55 Xorg	
560 root	20 0		3244	2728 S	0.3	0.0	0:00.26 VBoxService	
902 justin	20 0		32400	17236 S	0.3	0.4	0:03.62 panel-13-cpugra	
1965 root	20 0	406708	78968	63884 S	0.3	1.0	0:02.52 x-terminal-emul	
1 root	20 0	164428	10824	8016 S	0.0	0.1	0:02.12 systemd	
2 root	20 0	0	0	0 S	0.0	0.0	0:00.01 kthreadd	
3 root	0 -20	0	0	0 I	0.0	0.0	0:00.00 rcu_gp	
4 root	0 -20	0	0	0 I	0.0	0.0	0:00.00 rcu_par_gp	
5 root	20 0	0	0	0 I	0.0	0.0	0:00.00 kworker/0:0-events	
6 root	0 -20	0	0	0 I	0.0	0.0	0:00.00 kworker/0:0H-events_highpri	
7 root	20 0	0	Ø	0 I	0.0	0.0	0:01.56 kworker/u8:0-flush-8:0	
8 root	0 -20	0	0	0 I	0.0	0.0	0:00.00 mm_percpu_wq	
9 root	20 0	0	0	0 S	0.0	0.0	0:00.00 rcu_tasks_rude_	
10 root	20 0	0	0	0 S	0.0	0.0	0:00.00 rcu_tasks_trace	
11 root	20 0	0	0	0 S	0.0	0.0	0:00.00 ksoftirqd/0	
12 root	20 0	0	0	0 I	0.0	0.0	0:00.70 rcu_sched	
13 root	rt 0	0	0	0 S	0.0	0.0	0:00.02 migration/0	
15 root	20 0	0	0	0 S	0.0	0.0	0:00.00 cpuhp/0	
16 root	20 0	0	0	0 S	0.0	0.0	0:00.00 cpuhp/1	
17 root	rt 0	0	0	0 S	0.0	0.0	0:00.43 migration/1	
18 root	20 0 0-20	0	0	0 S 0 I	0.0 0.0	0.0 0.0	0:00.05 ksoftirqd/1	
20 root	20 0	0	0	0 I 0 S	0.0	0.0	0:00.00 kworker/1:0H-events_highpri 0:00.00 cpuhp/2	
21 root 22 root	20 0 rt 0	0	0 0	0 S	0.0	0.0	0:00.42 migration/2	
22 root 23 root	7C 0 20 0	0	0	0 S	0.0	0.0	0:00.42 migration/2 0:00.00 ksoftirgd/2	
25 root	20 0	0	0	0 I	0.0	0.0	0:00.00 kworker/2:0H-kblockd	
23 1000	0 20	0		0 1	0.0	0.0	0.00.00 RWOIKEI/2.01 KDLOCKU	

Top command running

root@jland018:~	\odot
File Actions Edit View Help	
Help for Interactive Commands - procps-ng 3.3.17 Window <mark>1:Def</mark> : Cumulative mode Off. System: Delay 3.0 secs ; Secure mode Off.	
<pre>Z,B,E,e Global: 'Z' colors; 'B' bold; 'E'/'e' summary/task memory scale l,t,m,I Toggle: 'l' load avg; 't' task/cpu; 'm' memory; 'I' Irix mode Ø,1,2,3,4 Toggle: '0' zeros; '1/2/3' cpu/numa views; '4' cpus two abreast f,F,X Fields: 'f'/'F' add/remove/order/sort; 'X' increase fixed-width</pre>	
L,&,<, > . Locate: 'L'/'&' find/again; Move sort column: '<'/'>' left/right R,H,J,C . Toggle: 'R' Sort; 'H' Threads; 'J' Num justify; 'C' Coordinates c,i,S,j . Toggle: 'c' Cmd name/line; 'i' Idle; 'S' Time; 'j' Str justify x,y . Toggle highlights: 'x' sort field; 'y' running tasks z,b . Toggle: 'z' color/mono; 'b' bold/reverse (only if 'x' or 'y') u,U,o,O . Filter by: 'u'/'U' effective/any user; 'o'/'O' other criteria n,#,^O . Set: 'n'/'#' max tasks displayed; Show: Ctrl +'O' other filter(s) V,v . Toggle: 'V' forest view; 'v' hide/show forest view children	
<pre>k,r Manipulate tasks: 'k' kill; 'r' renice d or s Set update interval W,Y,! Write config file 'W'; Inspect other output 'Y'; Combine Cpus '!' q Quit (commands shown with '.' require a visible task display window) Press 'h' or '?' for help with Windows, Type 'q' or <esc> to continue</esc></pre>	

Top help command

J justin@justin-VirtualBox: ~	Q =		×
<pre>justin@justin-VirtualBox:~\$ gnome-calculator & [1] 3301 justin@justin-VirtualBox:~\$ jobs [1]+ Done gnome-calculator justin@justin-VirtualBox:~\$ sudo killall gnome-calculator [sudo] password for justin: gnome-calculator: no process found justin@justin-VirtualBox:~\$ jobs justin@justin-VirtualBox:~\$ ps PID TTY TIME CMD 3295 pts/0 00:00:00 bash 3397 pts/0 00:00:00 ps justin@justin-VirtualBox:~\$</pre>			

Had to switch back to Ubuntu here, was having trouble with locked directories in Kali. Ran the calculator in the background before killing the process. I then use the ps command to see the running processes in the current shell.

<u>Task B</u>

```
justin@justin-VirtualBox:~$ sudo dpkg -i ./skypeforlinux-64.deb
Selecting previously unselected package skypeforlinux.
(Reading database ... 220137 files and directories currently installed.)
Preparing to unpack ./skypeforlinux-64.deb ...
Unpacking skypeforlinux (8.83.0.408) ...
```

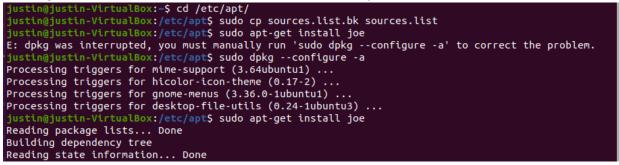
Installing skype using dpkg

F	justin@justin-VirtualBox: /etc/apt	Q = -	×
cp: cannot create regular	<pre>etc/apt\$ ls sources.list.d trusted.gpg.d etc/apt\$ cp sources.list sources.list.bk': Permisetc/apt\$ sudo cp sources.list :</pre>	ssion denied	

Making a backup copy of sources.list

<pre>justin@justin-VirtualBox:-\$ cd /etc/apt/ justin@justin-VirtualBox:/etc/apt\$ ls apt.conf.d preferences.d sources.list.d auth.conf.d sources.list trusted.gpg.d justin@justin-VirtualBox:/etc/apt\$ cp sources.list sources.list.bk cp: cannot create regular file 'sources.list.bk': Permission denied justin@justin-VirtualBox:/etc/apt\$ sudo cp sources.list sources.list.bk [sudo] password for justin: justin@justin-VirtualBox:/etc/apt\$ vi sources.list justin@justin-VirtualBox:/etc/apt\$ vi sources.list justin@justin-VirtualBox:/etc/apt\$ vi sources.list justin@justin-VirtualBox:/etc/apt\$ vi sources.list justin@justin-VirtualBox:/etc/apt\$ sudo apt-get install joe E: dpkg was interrupted, you must manually run 'sudo dpkgconfigure -a' to correct the problem. justin@justin-VirtualBox:/etc/apt\$</pre>

Deleting all the data in the sources.list file and tried to install joe with no success



In this screenshot I copied back over the backup for sources and ran the apt get install joe command again.