LPIC-1 101-400 – Lesson 5 – Lab

- * Login into your Debian Lab environment
- \$ cd Lab5 # change into Lab5
- \$ screen # launch screen
- s ps aux | grep init # find the init process
- \$ ps aux | less # check all running proc
- \$ ps eaux | less
- Ctrl-c # create a new shell
- \$ ps auxwf | less
- Ctrl-a Ctrl-a # switch between shells
- **\$ ps -ef | less** # show all processes full format (UNIX98)
- \$ ps -eF | less # extra full format
- \$ ps -ely | less # long format
- \$ ps -C agetty # list the agetty processes
- Ctrl-d # detach screen
- \$ screen -r # re-attach screen



- Ctrl-a c # create yet another screen parallel shell
- Ctrl-a " # show list of shells. Choose shell '2'
- **\$ pstree** # show processes in tree form
- Crtl-a Ctrl-a # run the following command in another shell
- **\$ pstree -a** # show full command line
- Crtl-a Ctrl-a # compare the two previous commands
- **\$ pstree -p** # show PIDs
- \$ top -d 1 # run top, refresh every second
- Stop -bi -n 10 -d 1 > top-proc.txt # run top in batch, show only non-idle processes, refresh every second, stop after 10 times and save result in top-prox.txt
- \$ view top-proc.txt # check out the results of the last command
- \$ top # press M and then P. Q to quit
- Crtl-a # create yet another shell
- **\$ ping 8.8.8.8** # Ctrl-c to terminate
- \$ ping 8.8.8.8 > /dev/null 2>&1 # Ctrl-Z to suspend



- \$ jobs # check jobs
- **\$ bg** # send suspended last job to background
- **\$ jobs** # check jobs again
- \$ fg # Ctrl-C to terminate the ping job
- \$ jobs # check jobs again
- **\$ ping 10.1.11.50 > /dev/null 2>&1 &** # send job straight to background
- \$ jobs # check jobs
- \$ view /etc/fstab # Ctrl-Z to suspend this job too
- \$ jobs # check jobs
- **\$ bg** # send to background
- \$ jobs # check job
- Ctrl-a d # detach screen
- \$ logout # logout from the system
 - * Login into your Lab environment again



- **\$ screen -r** # re-attach screen
- Ctrl-a 3 # switch to shell 3
- \$ fg 2 # bring job 2 to foreground. :q to exit view
- \$ fg 1 # Ctrl-C to terminate ping
- **\$ nohup ping 8.8.8.8** # Ctrl-C to terminate ping
- s cat nohup.out # check the output of last command
- **s nohup ping 10.1.11.50** & # run ping in background
- **\$ tail -f nohup.out** # Ctrl-C to terminate tail
- **\$ ps aux | grep ping** # find PID of ping
- **\$ pgrep ping** # find PID of ping (using pgrep)
- **\$ pkill ping** # terminate ping
- **\$ ps aux | grep ping** # verify that ping is terminated
- Ctrl-a " # show list of shells
- Ctrl-a 1 # or 2. switch to another shell
- Ctrl-a n # go to next shell
- Ctrl-a p # go to previous shell

- \$ vi numbers.txt # press I to edit
 one
 two
- Ctrl-a c # launch another shell
- **\$ pgrep -f numbers.txt** # find the vi PID editing number.txt
- \$ kill <vi PID> # terminate (signal 15) vi
- Ctrl-a Ctrl-a # switch to the previous shell
- \$ vi letters.txt # press i
 a
 b
- Ctrl-a Ctrl-a # switch to the previous shell
- **\$ pgrep -x vi** # find the vi process
- \$ kill -9 <vi PID> # kill it mercilessly!
- Ctrl-a Ctrl-a # switch to the previous shell to check vi
- \$ sudo -i # become root (superuser)
- # ps aux | grep apache # find Apache processes
- # killall apache2 # terminate Apache processes

- **\$ free** # check free memory utilization
- **\$ free -m** # # check free memory utilization in megabytes
- \$ free -m -s 1 # refresh every second
- \$ free -m -t # show total (Memory + SWAP) stats
- \$ uptime # show system uptime



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