Process Survey

- 1. What root-owned processes are running?
- (a) Of course the processes are a lot and the below images show them all. However, in order to get the processes that are running as root I used the command: ps -u root
- (b) The command used is: Abduls-MacBook-Pro:/ AbdulZaid\$ ps -u root

(b) 110 command accases in accase in accases in accases in accases in accases in accases in accase in accases in accase in accases in accases in accases in accase i					
(c)	Abdul	s-MacB	ook-Pro:/	' AbdulZaids	ps -u root
(0)	UID		TTY	TIME	
	0		??		/sbin/launchd
	0		??		/usr/libexec/UserEventAgent (System)
	0		??		/usr/libexec/kextd
	0		?? ??		/usr/libexec/taskgated -s /usr/sbin/securityd -i
	0		??		/usr/sbin/securityd -1 /usr/sbin/notifyd
	0		??		/System/Library/CoreServices/powerd.bundle/power
	0		??		/usr/libexec/configd
	0	18	??		/usr/libexec/diskarbitrationd
	0	19	??	2:26.52	/usr/sbin/distnoted daemon
	0		??		/usr/sbin/syslogd
	0		??		/usr/libexec/opendirectoryd
	0		??		/usr/libexec/warmd
	0		??		/usr/libexec/stackshot -t
	0		?? ??		/System/Library/CoreServices/SleepServicesD
	0		??		/System/Library/PrivateFrameworks/GenerationalSt /System/Library/Frameworks/CoreServices.framewor
	501		??		/System/Library/CoreServices/loginwindow.app/Con
	0		??		/System/Library/CoreServices/logind
	0		??		/usr/sbin/KernelEventAgent
	0	116	77		/usr/libexec/networkd_privileged
	0	125			/System/Library/Frameworks/OpenGL.framework/Vers
	0	164			/usr/sbin/racoon -D
	0	165			/usr/libexec/securityd_service
	0	227	??	0:07.50	/usr/sbin/filecoordinationd
	0	283			/usr/libexec/syspolicyd
	0	417			/System/Library/Frameworks/CoreMediaIO.framework
	0	484			/sbin/launchd
	0				/System/Library/Frameworks/CoreServices.framewor
		31580 31583			/usr/sbin/cfprefsd daemon /usr/libexec/systemstatsd
		31615			com.apple.CodeSigningHelper
		32693			/usr/sbin/ocspd
	0	32877	??	0:00.28	
	0	32951	??	0:00.06	/System/Library/PrivateFrameworks/SoftwareUpdate
		32952			/usr/libexec/xpcd
		33105			/usr/libexec/sandboxd -n PluginProcess -n
		33110			/System/Library/PrivateFrameworks/CoreSymbolicat
		33178 33217			com.apple.coremedia.videodecoder
		33217	11	0.00.03	/System/Library/PrivateFrameworks/TCC.framework/
	501	43	??	2:13.39	/System/Library/CoreServices/loginwindow.app/Con
	0		??		/System/Library/CoreServices/logind
	0		??		/usr/sbin/KernelEventAgent
	0		??		/usr/libexec/hidd
	0		?? ??		/System/Library/Frameworks/CoreServices.framewor
	0		??		/sbin/dynamic_pager -F /private/var/vm/swapfile /System/Library/CoreServices/launchservicesd
	0		??		/usr/sbin/awacsd
	0		??		autofsd
	0	61	??	0:31.08	/System/Library/PrivateFrameworks/ApplePushServi
	0	63	??		/usr/libexec/airportd
	0		??		/System/Library/CoreServices/coreservicesd
	0		??		com.apple.authd
	0		??		/System/Library/Frameworks/CoreServices.framewor
	88		??		/System/Library/Frameworks/ApplicationServices.f
	0		?? ??		/usr/libexec/usbd
	0		??		/usr/sbin/ntpd -c /private/etc/ntp-restrict.conf /usr/sbin/cupsd -l
	0		??		/usr/libexec/pacemaker -b -e 0.0001 -a 10
	0		??		/usr/libexec/networkd_privileged
	0		??		/System/Library/Frameworks/OpenGL.framework/Vers
	a	164	22		/usr/shin/racoon -D

0:08.03 /usr/sbin/racoon -D 0:04.98 /usr/libexec/securityd_service

0:07.50 /usr/sbin/filecoordinationd

164 ?? 165 ??

- 2. What processes are running on your account?
- (a) The processes that are running on my account are a lot, for example in my case, bash, chrome, screen, and a lot more. I used ps -u AbdulZaid
- (b) The Command used is: Abduls-MacBook-Pro:/ AbdulZaid\$ ps -u AbdulZaid

(c)

```
Abduls-MacBook-Pro:/ AbdulZaid$ ps -u AbdulZaid
        PID TTY
                           TIME CMD
        162 ??
                        1:42.60 /sbin/launchd
  501
                        1:03.69 /usr/libexec/UserEventAgent (Aqua)
  501
        168 ??
                        8:53.38 /usr/sbin/distnoted agent
                        3:26.10 /System/Library/CoreServices/Dock.app/Contents/M
        174 ??
  501
        176 ??
                        2:11.22 /System/Library/CoreServices/SystemUIServer.app/
  501
  501
        177 ??
                       19:19.72 /System/Library/CoreServices/Finder.app/Contents
                        0:00.08 /usr/sbin/pboard
0:08.54 /usr/libexec/sharingd
  501
        184 ??
  501
        189 ??
                        0:10.52 /usr/libexec/librariand
  501
        193 ??
                        1:15.96 /System/Library/Frameworks/ApplicationServices.f
  501
        195 ??
                        0:37.06 /System/Library/PrivateFrameworks/Ubiquity.frame
                        0:11.36 /usr/sbin/usernoted
        198 ??
                        {\tt 0:37.48 \ / System/Library/CoreServices/NotificationCenter.}
  501
  501
        200 ??
                        0:00.20 /System/Library/CoreServices/SocialPushAgent.app
        201 ??
                        0:18.67 /System/Library/PrivateFrameworks/MessagesKit.fr
  501
                        0:03.95 /usr/libexec/lsboxd
  501
        207 ??
                        0:38.71 /System/Library/PrivateFrameworks/IMCore.framewo
        208 ??
                        1:01.51 /System/Library/PrivateFrameworks/IDSCore.framew
  501
                        3:33.91 /System/Library/PrivateFrameworks/CalendarAgent.
  501
        230 ??
                        2:52.58 /Applications/iPhoto.app/Contents/Library/LoginI
  501
        236 ??
                        0:04.20 /Applications/iTunes.app/Contents/MacOS/iTunesHe
                        0:26.64 /Applications/Reader.app/Contents/Resources/read
        240 ??
  501
        241 ??
                       52:53.72 /Applications/Google Drive.app/Contents/MacOS/Go
                       20:55.77 /Applications/Dropbox.app/Contents/MacOS/Dropbox 0:08.22 com.apple.dock.extra
  501
        253 ??
        275 ??
  501
                      416:32.50 /Applications/Google Chrome.app/Contents/MacOS/G
  501
        350 ??
                       98:58.04 /Applications/Google Chrome.app/Contents/Version
        353 ??
                       0:19.57 /System/Library/Image Capture/Support/Image Capt
  501
        355 ??
                        3:49.49 /Library/Image Capture/Support/LegacyDeviceDisco
  501
        367 ??
                        0:04.27 /System/Library/PrivateFrameworks/UniversalAcces
  501
  501
        398 ??
                        0:36.18 /System/Library/Frameworks/CoreServices.framewor
        428 ??
                       78:49.91 /Applications/Google Chrome.app/Contents/Version
  501
        429 ??
                        0:22.17 /Applications/Google Chrome.app/Contents/Version
  501
        522 ??
                        0:51.30 /System/Library/Services/AppleSpell.service/Cont
        809 ??
                        0:04.65 /System/Library/PrivateFrameworks/CloudServices.
  501
                        0:00.10 /System/Library/PrivateFrameworks/KerberosHelper
  501
       1162 ??
       1363 ??
                        0:04.90 /System/Library/PrivateFrameworks/CommerceKit.fr
  501
                      0:01.41 /System/Library/PrivateFrameworks/HelpData.frame
348:14.16 /Applications/Google Chrome.app/Contents/Version
  501
       1729 ??
       1746 ??
  501
       1790 ??
                        0:02.86 /usr/bin/ssh-agent -l
       4415 ??
  501
                        0:13.77 /usr/libexec/WiFiKeychainProxy
       7234 ??
                      447:13.88 /Applications/Google Chrome.app/Contents/Version
  501
                        0:00.20 /System/Library/Frameworks/CoreServices.framewor
```

```
501 33207 ??
                     0:07.97 /Applications/Google Chrome.app/Contents/Version
501 33228 ??
                     0:00.06 /System/Library/Frameworks/Accounts.framework/Ve
501 33243 ??
                     0:07.81 /Applications/iTunes.app/Contents/MacOS/iTunes
501 33246 ??
                     0:00.05 com.apple.BKAgentService
501 33251 ??
                    0:00.24 /System/Library/PrivateFrameworks/AirTrafficHost
501 33252 ??
                    0:05.48 com.apple.MediaLibraryService
501 33254 ??
                    0:00.05 /System/Library/PrivateFrameworks/MobileDevice.f
501 33275 ??
                    0:00.66 /System/Library/Frameworks/CoreServices.framewor
501 33280 ??
                    0:00.35 /System/Library/Frameworks/CoreServices.framewor
501 33282 ??
                    0:02.77 /Applications/Google Chrome.app/Contents/Version
501 33288 ??
                     0:00.74 /System/Library/Frameworks/CoreServices.framewor
501 33289 ??
                     0:00.01 /usr/sbin/traceroute -q 1 antitheft.zeobit.com
501 33299 ??
                     0:00.07 /System/Library/Frameworks/CoreServices.frameworks
501 33300 ??
                     0:00.07 /System/Library/Frameworks/CoreServices.framewor
 0 33203 ttys000
                     0:00.10 login -pf AbdulZaid
501 33204 ttys000
                     0:00.06 -bash
 0 33301 ttys000
                     0:00.01 ps -u AbdulZaid
 0 29959 ttys001
                     0:00.04 login -pflq AbdulZaid /bin/bash
501 29960 ttys001
                     0:00.02 bash
501 29961 ttys001
                     0:16.88 ping localhost
 0 29967 ttys002
                     0:00.03 login -pflq AbdulZaid /bin/bash
501 29968 ttys002
                     0:00.01 bash
```

- 3. Run a typical working set of applications (e.g web browser, chat program, text editor, etc.). Which application is using the most real memory? The most virtual memory?
- (a) The application that is using the most real memory (MEM) is *Google Talk Plugin*, and the program that is using the most Virtual memory (VSIZE) is *Google Chrome*.
- (b) The command used:Abduls-MacBook-Pro:~ AbdulZaid\$ ps aux I sort -nrk 3 I head -1 and, Abduls-MacBook-Pro:~ AbdulZaid\$ ps aux I sort -nrk 4 I head -1

(c) (1) MEM

(2) VSIZE

```
Abduls-MacBook-Pro:~ AbdulZaid$ ps aux | sort -nrk 4 | head -1
AbdulZaid 519 8.1 6.7 1297116 279176 ?? $ 4:83AM 5:29.44 /Applications/Google Chrome.app/Contents/Versions/33.0.1750.152/Google Chrome Helper.app/Contents/MacOS/Google Chrome Helper --type=renderer --lang=en
-US --force-fieldtrials=AutocompleteDynamicTrial_2/DefaultControl_R2_Stable/ChromeSuggestions/Default/EmbeddedSear
ch/Group9 pct:10i stable:ppl use_cacheable_ntp:1 espv:210 suppress_on_srp:1/ExtensionInstallVerification/None/Omni
boxBundledExperimentV1/StandardR2/Prerender/PrerenderEnabled/PrerenderFromOmnibox/OmniboxPrerenderDisabled/Prerend
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- 4. Login to my.cs.lmu.edu. Who else, other than root and you, has processes running at that time?
- (a) The processes running at that time includes: kthreadd, ksoftirqd, migration, udevd, nfsd, apache2, sshd, and ps, and many others.
- (b) The command used: ps aux | grep -v "aalzaid1" | grep -v "root"

(c)

```
START TIME COMMAND
2013 17:40 rsyslogd -c5
2013 0:00 rpc -
                                                                | grep -v "i
STAT START
Sl 2013
Ss 2013
                                  grep -v
              PID %CPU %MEM VSZ
694 0.0 0.1 185868
syslog
statd
                    0.0 0.0 25612
0.0 0.0 24160
                                                                 Ssl 2013 32:22 /usr/sbin/mysqld
S 2013 0:10 qmgr -l -t fifo -u
                            0.0 27224 1756 ?
0.2 30148 9440 p
                                                                 S 2013
Ss+ 2013
S Mar20
aschne19
                                             9440 pts/4
                                                                                   0:00 -bash
             3246
ww-data
                                                                                   0:00 /usr/sbin/apache2 -k start
                    0.0
                                                                                   0:00 /usr/sbin/apache2 -k start
                           0.0 27036 1668 ?
0.0 10604 964 pts/3
                                                                                   1:24 SCREEN ping www.google.com
                                                                                   8:11 ping www.google.com
                                                                       2013
Feb06
                            0.2 30164 9496 p
0.3 205576 14048 ?
                                            9496 pts/2
                                                                                  0:00 -bash
0:00 /usr/sbin/apache2 -k start
aschne19 14083
ww-data 14161
                    0.0
                                                                                   0:00 /usr/sbin/apache2 -k start
                                                                Ss 2013
S 22:53
Ss 23:10
                                            8148 ?
                                                                                  8:00 pickup -l -t fifo -u -c
8:00 /usr/sbin/ntpd -p /var/run/ntpd.pid -g -c /var/lib/ntp/ntp.co
                                   27012
28824
                                             1608 ?
jpiatos 23801
jpiatos 23802
                                   30200
26904
                                                                                   0:00 -bash
1:42 SCREEN
                                             9504 pts/0
                                             1496 ?
akerawa2 24144
                                             5144 pts/1
                                                                                   0:00 /bin/bash
blokker 24337
                                   10604
                                                                                   6:53 ping yahoo.com
0:00 /usr/sbin/apache2 -k start
                     0.0
```