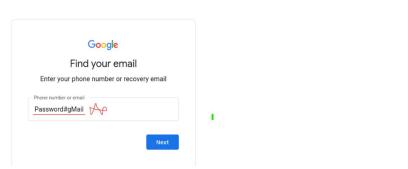
How To Read RAM

```
1:
        [root@localhost ~]# free -m
                      total
                                                free
                                                          shared buff/cache
                                                                               available
                                   used
        Mem:
                       9957
                                    1862
                                                4236
                                                                        4212
                                                                                    8095
        Swap:
        [root@localhost ~]# yum install kernel-devel kernel-headers
        Updating Subscription Management repositories.
        Unable to read consumer identity
        This system is not registered with an entitlement server. You can use subscription-manager to register.
        Last metadata expiration check: 1 day, 22:29:38 ago on Mon 24 Jul 2023 01:03:18 AM IST.
        Package kernel-devel-5.14.0-284.11.1.el9_2.x86_64 is already installed.
        Package kernel-headers-5.14.0-284.11.1.el9_2.x86_64 is already installed.
        Dependencies resolved.
        Nothing to do.
        Complete!
        [root@localhost ~]# yum install git
        Updating Subscription Management repositories.
        Unable to read consumer identity
        This system is not registered with an entitlement server. You can use subscription-manager to register.
        Last metadata expiration check: 1 day, 22:29:51 ago on Mon 24 Jul 2023 01:03:18 AM IST.
        Package git-2.39.1-1.el9.x86_64 is already installed.
        Dependencies resolved.
        Nothing to do.
```

```
Complete!
2:
      [root@localhost ~]# ls
      Cloning into 'LiME'...
      remote: Enumerating objects: 362, done.
      remote: Counting objects: 100% (13/13), done.
      remote: Compressing objects: 100% (9/9), done.
      remote: Total 362 (delta 4), reused 10 (delta 4), pack-reused 349
      Receiving objects: 100% (362/362), 1.61 MiB | 2.94 MiB/s, done.
      Resolving deltas: 100% (193/193), done.
      [root@localhost ~]# ls
      anaconda-ks.cfg Deskto
      [root@localhost ~]# cd LiME/
      [root@localhost LiME]# ls
          LICENSE README.md
      [root@localhost LiME]# cd src/
      [root@localhost src]# ls
      deflate.c disk.c hash.c lime.h main.c Makefile Makefile.sample tcp.c
```

```
[root@localhost src]# pwd
3.
       /root/LiME/src
       [root@localhost src]# yum install make
       Updating Subscription Management repositories.
       Unable to read consumer identity
       This system is not registered with an entitlement server. You can use subscription-manager to register.
       Last metadata expiration check: 1 day, 22:45:11 ago on Mon 24 Jul 2023 01:03:18 AM IST.
       Package make-1:4.3-7.el9.x86_64 is already installed.
       Dependencies resolved.
       Nothing to do.
       Complete!
       [root@localhost src]# yum install gcc
       Updating Subscription Management repositories.
       Unable to read consumer identity
       This system is not registered with an entitlement server. You can use subscription-manager to register.
       Last metadata expiration check: 1 day, 22:45:19 ago on Mon 24 Jul 2023 01:03:18 AM IST.
       Package gcc-11.3.1-4.3.el9.x86_64 is already installed.
       Dependencies resolved.
       Nothing to do.
       Complete!
```

```
[root@localhost src]# make
4:
          make -C /lib/modules/5.14.0-284.11.1.el9_2.x86_64/build M="/root/LiME/src" modules
          make[1]: Entering directory '/usr/src/kernels/5.14.0-284.11.1.el9_2.x86_64'
           LD [M] /root/LiME/src/lime.ko
           BTF [M] /root/LiME/src/lime.ko
         Skipping BTF generation for /root/LiME/src/lime.ko due to unavailability of vmlinux make[1]: Leaving directory '/usr/src/kernels/5.14.0-284.11.1.el9_2.x86_64'
         strip --strip-unneeded lime.ko
          nv lime.ko
                           -5.14.0-284.11.1.el9 2.x86 64.ko
         [root@localhost src]# ls
         deflate.c disk.o lime-5.14.0-284.11.1.el9_2.x86_64.ko lime.mod.c main.c
                                                                                                 Makefile.sample tcp.c
         deflate.o hash.c lime.h
                                                                         lime.mod.o main.o
                                                                                                  modules.order
         disk.c
                     hash.o lime.mod
                                                                                      Makefile Module.symvers
         [root@localhost src]# modinfo lime-5.14.0-284.11.1.el9_2.x86_64.ko
         filename:
                           /root/LiME/src/lime-5.14.0-284.11.1.el9_2.x86_64.ko
         license:
         rhelversion:
                          9.2
                           04EED6E8981104D7EBE947E
         srcversion:
         depends:
         retpoline:
          name:
         vermagic:
                           5.14.0-284.11.1.el9_2.x86_64 SMP preempt mod_unload modversions
         parm:
                          path:charp
         parm:
                           format:charp
localhostonly:int
         parm:
         parm:
                           digest:charp
         parm:
                           timeout:long
         parm:
                           compress:int
         parm:
         [root@localhost
          G Gmail
          \leftarrow \rightarrow C
                                 🔾 🐧 https://accounts.google.com/signin/v2/usernamerecovery?continue=https%3A%2F%2Fmail.google.com%2Fmail%2F&dsh=S-1660900253%3A169 🕏
                                                                                                                                                            \odot
5:
```



```
root@localhost:~
                     root@localhost:~
                                                                         root@localhost:/
[root@localhost src]# insmod /root/LiME/src/lime-5.14.0-284.11.1.el9_2.x86_64.ko path=/myRam.data format=raw
[root@localhost src]# ls /root
anaconda-ks.cfg Desktop
[root@localhost src]# cd /root
[root@localhost ~]# ls
anaconda-ks.cfg Des
[root@localhost ~]# ls -l /myRam.data
r--r--r-. 1 root root 11022167040 Jul 26 00:14 /myRam.data
[root@localhost ~]# head -2 /myRam.data
[root@localhost ~]# cat /myRam.data | strings | grep Password#gMail
[root@localhost ~]#
```

6:

```
7:
```

8:

| Residence |

Finally, we read data stored in RAM. On the 7th page we have X="XXZZYYZZCCVV", then in 8th page we capture the RAM and find the X value and we find it is the same that we have assigned in page 7.

→ If you like, u can save entire data into a file by using

\$cat /<filename.data> | strings > <filename.txt>

Thank you.