Assignment

Assignment Date:09-10-2022 Submitted by:Govarthan A(govasana07@gmail.com)

Assignment 1: Update the centos machine (rough note assignment)

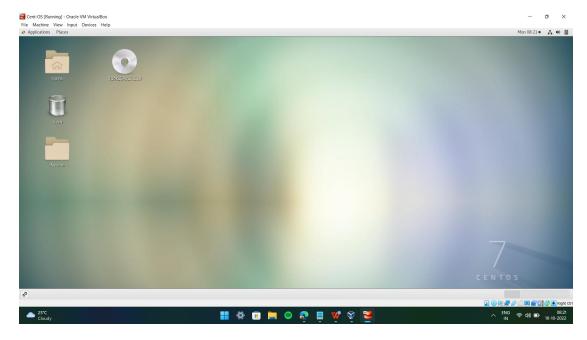
- -- In order to update linux machine user should be Super User
- -- By using the following **su root** we can become root user then run **yum -y update** to update the cent os machine

Assignment 2: Install all dependencies to make cent os ready for full screen mode (rough note assignment)

-- Did yum update initially once everything is updated I ran the below command

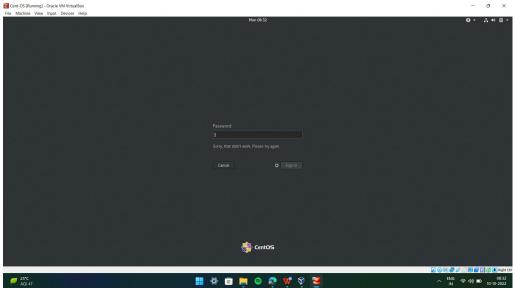
yum install dkms gcc make kernel-devel bzip2 binutils patch libgomp glibc-headers glibc-devel kernel-headers -y

- -- Once above command ran successfully I went to mount the **Guest Addition CD image** under devices drop down of virtual box
- -- Then I restarted the VM once restarted under view Drop down I selected Full screen then it went to full screen mode like below



Assigment 3: login a non-existent users or username

 $\operatorname{\mathsf{--}}$ So I logged out from the user I created and tried different user name and password I got the following error

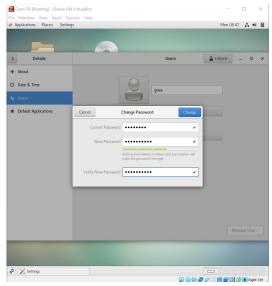


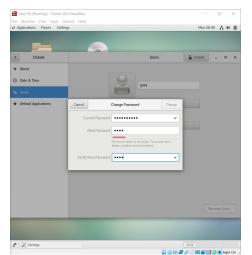
-- Because we don't have that user in the cent os created so it throwing this error while logging in with some non existent username and password.

Assignment 4: Password changing

-- Like mentioned in Assignment document initially I changed the password to (IneuROn#42)

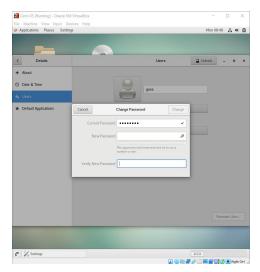
i able to add this password I'm getting change button enabled once I entered this password and also I can able to use them to loggin





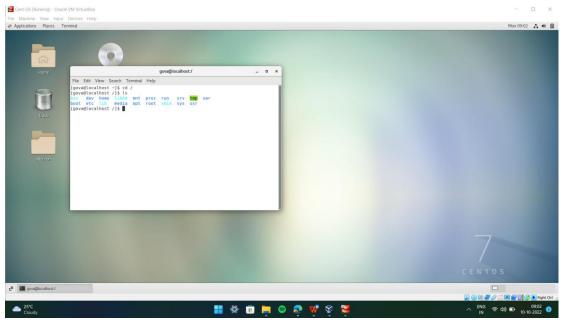
--Secondly I tried with this password (1234 & abcd) it showing me this is weak password and not able to change

- --Like mentioned in assignment document lastly we have to barely hit enter in new password text field
- --nothing is happening there it is asking me to enter the password also change button is disabled

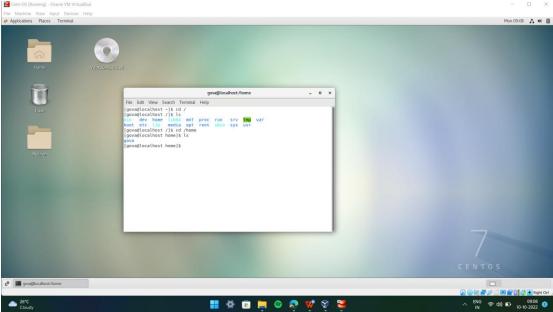


Assignment 5:Working with Directories

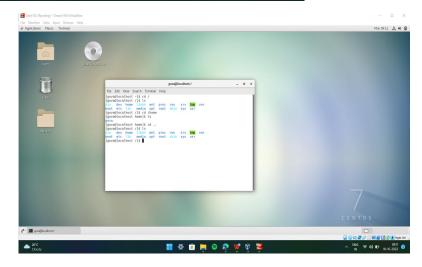
- 1. Enter the command cd / and then Is and then hit Enter key
- -- Since it is in os installed directory it is showing all folder that os installed directory has



- 2. Enter the command now cd /home and then hit Enter key
- --Also did **Is** command it is showing user name, because home directory will have all users directory if we have several user in linux machine then inside home directory we II get several users directory



- 3. Enter cd .. and hit Enter key
- --So it is moved to os installed directory



- 4. Now enter cd /var/www/html and then type cd and hit Enter key
- -- I ran the first command **cd /var/www/html** it showing error like there is no such directory And I ran **cd** command it moved to user directory which is home directory



5. Now type cd /root and then hit Enter key

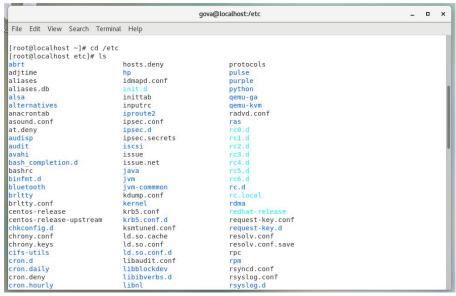
-- I ran the command cd /root it showing permission because I'm not a super user

```
gova@localhost:~
File Edit View Search Terminal Help
[gova@localhost ~]$ cd /
[gova@localhost /]$ ls
oin dev home lib64 mnt proc run srv tmp var
boot etc lib media opt root sbin sys usr
[gova@localhost /]$ cd /home
[gova@localhost home]$ ls
[gova@localhost home]$ cd ..
[gova@localhost /]$ ls
bin dev home lib64 mnt proc run srv tmp
boot etc lib media opt root sbin sys usr
                                                srv tmp var
[gova@localhost /]$ cd /var/www/html
bash: cd: /var/www/html: No such file or directory
[gova@localhost /]$ cd
[gova@localhost ~]$ ls
Desktop Documents Downloads Music Pictures Public Templates Videos [gova@localhost ~]$ cd /root
bash: cd: /root: Permission denied
[gova@localhost ~]$
```

--in order to become as a super user I ran **su root** and went to **cd /root** and listed the content it has using **Is** command

Assignment 6:Working with File Listing

- 1. Go to cd /etc and type Is
- --So I went to etc directory and did Is command it is showing me n number of files located in etc directory
- --Most of the linux configuration file will be located in etc directory only so in this directory user can modify the config file of particular package based on the requirement



2. Then type Is -al and hit Enter key

-- I ran the **Is -al** command in the etc directory then it is showing me the permission levels that each file has

```
gova@localhost:/etc
 File Edit View Search Terminal Help
[root@localhost etc]# ls -al
total 1372
drwxr-xr-x. 139 root root
dr-xr-xr-x. 17 root root
drwxr-xr-x. 3 root root
-rw-r--r-. 1 root root
-rw-r--r-. 1 root root
                                                                              8192 Oct 10 08:49
                                                                          8192 Oct 10 08:49 .
224 Oct 9 19:01 .
101 Oct 9 18:49 abrt
16 Oct 9 19:01 adjtime
1529 Apr 1 2020 aliases
12288 Oct 9 19:20 aliases.db
   rw-r--r--
                                     1 root root
 drwxr-xr-x.
drwxr-xr-x.
                                          root root
                                                                               65 Oct 9 18:53 alsa
4096 Oct 9 20:14 alternatives
                                                                               4096 Oct 9 20:14 alternative
541 Jan 13 2022 anacrontab
55 Aug 8 2019 asound.conf
1 May 18 21:24 at.deny
43 Oct 9 18:50 audisp
83 Oct 9 19:20 audit
  - rw----.
                                      1 root root
                                         root root
   rw-r--r--.
-rw-r--r--.
drwxr-x---.
                                          root root
 drwxr-x---.
                                     3 root root
                                                                          83 Oct 9 19:20 audit
71 Oct 9 18:53 avahi
4096 Oct 9 20:13 bash_completion.d
2853 Apr 1 2020 bashrc
6 Sep 1 20:27 binfmt.d
23 Oct 9 18:49 bluetooth
12288 Oct 9 18:51 brltty
21929 Apr 11 2018 brltty, conf
37 Nov 23 2020 centos-release
51 Nov 23 2020 centos-release
6 Oct 13 2020 chkconfig.d
1108 Aug 8 2019 chrony.conf
481 Aug 8 2019 chrony.copf
drwxr-xr-x.
drwxr-xr-x.
-rw-r--r--.
                                     4 root root
2 root root
1 root root
drwxr-xr-x.
drwxr-xr-x.
drwxr-xr-x.
-rw-r--r-.
                                    2 root root
                                          root root
root root
root root
   rw-r--r--.
                                          root root
                                          root root
root root
root root
   rw-r----.
                                                                                481 Aug
26 Oct
54 Oct
57 Oct
                                                                                                       8 2019 chrony.keys
9 20:12 cifs-utils
9 20:10 cron.d
9 18:53 cron.daily
                                          root chrony
 drwxr-xr-x.
drwxr-xr-x.
                                         root root
                                          root root
```

3. Then use Is -i and hit Enter key

--Once I ran **Is -i** it showing me the index number of each file

4. Then use **Is –help** and see other options about **Is** command Once I ran **Is --help** it shown me all the Is related command we can use

```
gova@localhost:/etc
                                                                                                                                                                 пх
File Edit View Search Terminal Help 4 protite.d
[root@localhost etc]# ls --help
Usage: ls [OPTION]... [FILE]...
List information about the FILEs (the current directory by default).
Sort entries alphabetically if none of -cftuvSUX nor --sort is specified.
Mandatory arguments to long options are mandatory for short options too.
-a, --all do not ignore entries starting with .
-A, --almost-all do not list implied . and ..
                                              with -l, print the author of each file
print C-style escapes for nongraphic characters
         --author
   -b, --escape
                                               scale sizes by SIZE before printing them; e.g.,
         --block-size=SIZE
                                                  '--block-size=M' prints sizes in units of
                                                  1,048,576 bytes; see SIZE format below
                                              do not list implied entries ending with ~
with -lt: sort by, and show, ctime (time of last
modification of file status information);
   -B, --ignore-backups
                                                  with -l: show ctime and sort by name:
                                                  otherwise: sort by ctime, newest first
                                               list entries by columns
                                              colorize the output; WHEN can be 'never', 'auto', or 'always' (the default); more info below
          --color[=WHEN]
                                              list directories themselves, not their contents generate output designed for Emacs' dired mode do not sort, enable -aU, disable -ls --color append indicator (one of */=>@|) to entries likewise, except do not append '*'
   -d, --directory
   -D, --dired
   -F, --classify
         --file-type
          --format=WORD
                                               across -x, commas -m, horizontal -x, long -l,
                                                  single-column -1, verbose -1, vertical -C
                                              like -l --time-style=full-iso
like -l, but do not list owner
         --full-time
    - q
```

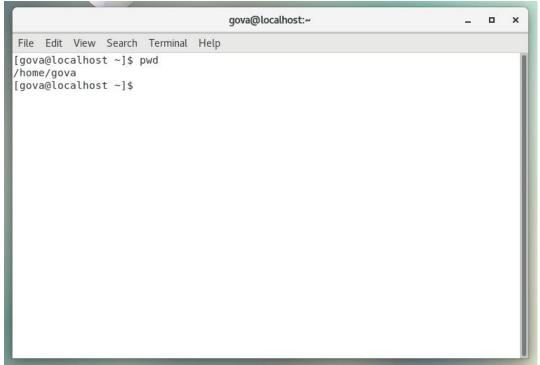
and I used one attribute Is --size which will show us the size of files in blocks

```
gova@localhost:/etc
                                                                                                                 ×
File Edit View Search Terminal Help Iry 'is --neip' for more information.
[root@localhost etc]# clear
[root@localhost etc]# ls --size
total 1356
 0 abrt
                                     4 hosts.deny
                                                                      8 protocols
 4 adjtime
                                     0 hp
                                                                      0 pulse
 4 aliases
                                     8 idmapd.conf
12 aliases.db
                                     0 init
                                                                      0 python
                                     4 inittab
 0 alsa
                                                                      0 gemu-ga
 4 alternatives
                                     4 inputro
                                                                      0 qemu-kvm
 4 anacrontab
                                     0 iproute2
                                                                      4 radvd.conf
 4 asound.conf
                                     4 ipsec.conf
                                                                      0 ras
 4 at.deny
                                     0 ipsec.d
                                                                      0 rc0.
 0 audisp
                                     4 ipsec.secrets
                                                                      0 rc1.d
 0 audit
                                     0 iscsi
                                                                      0 rc2.d
 0 avahi
                                     4 issue
                                                                      0 rc3.d
                                                                      0 rc4.d
 4 bash completion.d
                                     4 issue.net
                                                                      0 rc5.d
 4 bashrc
                                     0 java
 0 binfmt.d
                                       jvm
 0 bluetooth
                                     0
                                       jvm-commmon
                                                                      0 rc.d
                                                                      0 rc.local
16 brltty
24 brltty.conf
                                     8 kdump.conf
0 kernel
                                                                      0 rdma
 4 centos-release
4 centos-release-upstream
                                       krb5.conf
                                                                      0 redhat-rel
                                       krb5.conf.d
                                     0
                                                                      4 request-key.conf
                                       ksmtuned.conf
                                                                      0 request-key.d
   chkconfig.d
   chrony.conf
                                    80 ld.so.cache
                                                                      4 resolv.conf
                                     4 ld.so.conf
0 ld.so.conf.d
 4 chrony.keys
                                                                      4 resolv.conf.save
 0 cifs-utils
                                                                       4 rpc
                                       libaudit.conf
  O cron.daily
                                     0 libblockdev
                                                                       4 rsyncd.conf
```

Assignment 7:Know where you are and where you working

1. Open terminal after restart the linux and run pwd command

--once restarted I ran pwd command in terminal, it showing me that I'm in my user directory



- 2. Now use cd /var and hit Enter key
- -- I ran cd /var and Is command
- -- var directory is sub-directory of root directory