RHCEv8 Online Class 08052021 10:00pm RHCSA-sysadmin - Accessing the Command Line II - Managing Files from the Command Line - Creating, Viewing, and Editing Text Files **Basic Commands** 

change location on FHS by using 'cd' command # cal # bc # date # uptime # passwd # hostnamectl # cat /etc/redhat-release # clear or press Ctrl+l # pwd /root # cd /tmp # pwd /tmp # cd /opt # pwd /opt

## -shift between 2locations

# cd -# cd /proc/ # cd /media/ # cd -/proc # cd -/media

# absolute path

start addressing by use  $^\prime \! /^\prime$ ex: # pwd # cd /var/log/ relative path won't start addressing by use '/' # pwd #/var # cd log/

-back to parent directory # cd .. ex: # cd /var/log # pwd /var/log # cd .. # pwd /var ex: # cd /var/log # pwd /var/log # cd ../.. # pwd

```
-what is object type
# file /var/log/
/var/log/: directory
                              ->object is dir
# file /var/log/secure
/var/log/secure: ASCII text
                             ->object is file
                : empty
                              -> object is file
# ls /
      file1
bin/
directory ended by '/'
# II
         long list
# Is
          list
                    list of command
# history
-repeat specific line
#!<line number>
#!60
-delete specific line from history
# history -d <line number>
# history -d 66
-delete history
# history -c
Create empty text file
-create single empty text file
# touch /tmp/file1
-create multiple empty text files
# touch /tmp/file{2..7}
# tree /tmp/
/tmp/
  — file1
   – file2
  — file3
 --- file4
 ---- file5
 --- file6
  — file7
-create multiple empty text files
# touch /tmp/{moon,mars,earth}
Create directory
-create single dir
# mkdir /tmp/India
-create multiple dir's
# mkdir /tmp/{ts,up}
# mkdir /tmp/dir{1..5}
-create nested directories(dir into dir)
# mkdir -p /tmp/a/b/c/d
# tree /tmp/
/tmp/
   - a
   <u></u> ∟ b
     └─ c
-combine Linux commands together. run multiple Linux commands on single line
1- use &&
2-use;
1- &&
# mkdir /var/tmp/dir1&&touch /var/tmp/dir1/file1
```

# mkdir /var/tmp/dir2;touch /var/tmp/dir1/file2

```
Operate files/directories
-copy
-move/cut
-rename
-remove/delete
-copy file/dir by use 'cp-copy' command
file
# cp <source file> <destination>
# cp /tmp/file2 /
-copy and rename
# cp <source file> <destination/<new name>
# cp /tmp/earth /biswajit
-copy multiple files
# cp /tmp/file{3..5} /var/tmp/
# cp /tmp/fi* /mnt/
# cp -v /mnt/file7 /media/
'/mnt/file7' -> '/media/file7'
-v verbosity
dir
# cp -r <source dir> <destination>
# cp -r /tmp/dir1/ /
-r recursive
recursive means dir + whatever available inside it.
# cp -r /var/tmp/dir1/ /media/
-copy and rename
# cp -r /var/tmp/dir1/ /media/dell
-cut file/dir by use 'mv-move' command
file/dir
# mv /dir1/ /opt/
# mv /file4 /opt/
-move and rename
# mv -v /file1 /opt/govind
-rename file/dir by use 'mv-move' command
file/dir
# mv /file5 /file55
# mv /abc/ /xyz
-remove/delete file/dir by use 'rm-remove' command
file
# rm /file3
rm: remove regular empty file '/file3'? yes/no
-dir
empty dir
# rmdir /xyz/
or
# rm -rf <file/dir>
# rm -rf /var/tmp/dir1/
# rm -rf /file55
-r recursive
-f forceful
# echo "<user input>"
                   ->1th priority
# echo 'hello'
# echo "hello"
                   ->2nd priority
NOTE: user input should enclose by ' ' or " " on Linux
-standard input
                   ->keyboard
-standard output ->monitor
-standard error
                   ->error
# echo "hello"
hello
-redirect '>'
want to send/redirect output to file
# history > /tmp/history
# echo "hello" >/tmp/a.txt
```

### -read text file without open by use 'cat' command

# cat /tmp/a.txt

hello

# cat /tmp/history

# cat /etc/passwd

# cat /tmp/a.txt

hello

# echo "this is weekend batch" >/tmp/a.txt

# cat /tmp/a.txt

this is weekend batch

**NOTE:** '>' will replace new contents over existing one

# -append '>>'

# echo "hello" >>/tmp/a.txt # cat /tmp/a.txt this is weekend batch hello

# -redirect error to file by use '2>'

# mdir /tmp/nasa 2>/tmp/error

# -append error to file by use '2>>'

# fil /tmp/file1 2>>/tmp/error

# cat /tmp/error

-bash: mdir: command not found -bash: fil: command not found

# create text file with content by use 'cat' command -mehod1, without prompt

# cat >/tmp/b.txt kwljfwehwejfjwejf ,fnkqjqw;d;lqwkqwkd;qw qouiwoeytiowoiqojq

press Ctrl+d ->to save/quit

# -mehod2, with prompt

> irqruiqhhqwiu

> .qmdqdqwmqwd

> 27823784623lqwqihqwdq

> EOF ->save/quit

### combine text file together and create new file

# cat /tmp/a.txt /tmp/b.txt /var/tmp/c.txt >/final.txt

# cat /final.txt

this is weekend batch

<mark>hello</mark>

kwljfwehwejfjwejf

,fnkqjqw;d;lqwkqwkd;qw

qouiwoeytiowoiqojq

irqruiqhhqwiu

.qmdqdqwmqwd

27823784623lqwqihqwdq

#### **Text editor on Linux**

1-cli

vi/vim, nano, emac

default text editor is vi/vim

2-gu

gdit

# 1-cli, vi/vim

# vim

or

# vim <new file>

or

# vim <existing file>

# vim

vim has modes to operate:

1-esc mode to do most operations on vim 2-insert mode press 'i' to start writing 3-append mode press 'a' to start writing

4-replace mode 5-record mode

# -press 'i' to start writing

-press esc to stop

### -save new file and continue

esc :w /path/<new file name> esc :w /var/tmp/dd.txt

-save and quit

esc:wq

# open existing file

# vim /tmp/vimfile.txt

-quit the file

esc:q

# -quit without save the changed

esc :q!

# -jump to end of file

esc shift+g

### -jump to start of file

esc gg

#### -set line number

esc :set number

# -jump to specific line

esc:5

# -search inside file

esc /<pattern>

esc /root

# -shift between searched pattern

press 'n' ->next

# yank and put == copy and paste

# -single line

go to target line

esc yy

press p to put

# -multiple lines

copy lines 10, 11, 12 and 13 go to target starting line (line 10)

esc 4 yy press p to put

# -delete

# single line

go to target line

esc dd

# multiple lines

copy lines 10, 11, 12

go to target starting line (line 10)

esc 3 dd

### -undo

esc u

#### -redo

esc crtl+r

# -encrypt text file set encryption

esc :X ->X is capitol Enter encryption key: redhat Enter same key again: redhat esc :wq!

# vim <file>

Enter encryption key:

# unset encrption

esc :X ->X is capitol Enter encryption key: press Enter Enter same key again: press Enter

esc :wq! # vim <file>

# -minimize vim and back to cli

esc :sh sh ->shell

### back to vim

# exit

or

press Ctrl+d

# -run Linux commands inside vim

esc:! <command>

# -search and replace

search 'root' and replace to 'coss' esc: %s/root/coss/gi

### -open multiple files

esc :vs <filename> shift between files esc Ctrl+ww

-compare files by vim
# vimdiff <file1> <file2>
# vimdiff passwd passwd1

# vimtutor