**2. Move Files From one folder to the respective folders.**

**Filename**

[root@localhost linux-content]# nano acce.sh

#!/bin/bash

touch abc.txt def.txt ghi.txt jkl.txt

#dte=`date +'%d%m%Y'`

for file in `ls \*txt`

do

firsttoken=`echo $file |awk -F. '{print $1}'`

secondtoken=`echo $file |awk -F. '{print $2}'`

newName=`echo $firsttoken`

echo $newName

cp $file $newName

done

**output:**

[root@localhost linux-content]# sh acce.sh

abc

def

ghi

jkl

[root@localhost linux-content]# ls abc

abc.txt

[root@localhost linux-content]# ls def

def.txt

[root@localhost linux-content]# ls ghi

ghi.txt

[root@localhost linux-content]# ls jkl

jkl.txt

**3. Append current data to all log files name which has extension .log.1 from a folder**

[root@localhost linux-content]# nano acce.sh

#!/bin/bash

touch abc.log.1 def.log.1 ghi.log.1 jkl.log.1 mno.log.1

dte=`date +'%d%m%Y'`

for file in `ls \*log.1`

do

firsttoken=`echo $file |awk -F. '{print $1}'`

secondtoken=`echo $file |awk -F. '{print $2}'`

thirdtoken=`echo $file |awk -F. '{print $3}'`

newName=`echo $firsttoken.$dte.$secondtoken`

echo $newName

done

**output:**

[root@localhost linux-content]# sh acce.sh

abc.30112020.log

def.30112020.log

ghi.30112020.log

jkl.30112020.log

mno.30112020.log

**4. Archive the files from /var/log folder which have modified 7 days ago and move it to your backup folder**

AKHIL@DESKTOP-43E18QK MINGW64 /c/TerminalCommand/linux-content (master)

$ find . -mtime +7>file.txt

AKHIL@DESKTOP-43E18QK MINGW64 /c/TerminalCommand/linux-content (master)

$ cd backup

AKHIL@DESKTOP-43E18QK MINGW64 /c/TerminalCommand/linux-content/backup (master)

$ ls

file.txt

AKHIL@DESKTOP-43E18QK MINGW64 /c/TerminalCommand/linux-content/backup (master)

$ cat file.txt

./.git

./.git/config

./.git/description

./.git/HEAD

./.git/hooks

./.git/hooks/applypatch-msg.sample

./.git/hooks/commit-msg.sample

./.git/hooks/fsmonitor-watchman.sample

./.git/hooks/post-update.sample

./.git/hooks/pre-applypatch.sample

./.git/hooks/pre-commit.sample

./.git/hooks/pre-merge-commit.sample

./.git/hooks/pre-push.sample

./.git/hooks/pre-rebase.sample

./.git/hooks/pre-receive.sample

./.git/hooks/prepare-commit-msg.sample

./.git/hooks/update.sample

./.git/index

./.git/info

./.git/info/exclude

./.git/logs

./.git/logs/HEAD

./.git/logs/refs

./.git/logs/refs/heads

./.git/logs/refs/heads/master

./.git/logs/refs/remotes

./.git/logs/refs/remotes/origin

./.git/logs/refs/remotes/origin/HEAD

./.git/objects

./.git/objects/info

./.git/objects/pack

./.git/objects/pack/pack-e507e6a537bb10712e329e38cf0b222a93ccffc7.idx

./.git/objects/pack/pack-e507e6a537bb10712e329e38cf0b222a93ccffc7.pack

./.git/packed-refs

./.git/refs

./.git/refs/heads

./.git/refs/heads/master

./.git/refs/remotes

./.git/refs/remotes/origin

./.git/refs/remotes/origin/HEAD

./.git/refs/tags

./data.csv

./linux\_chit\_sheet.pdf

./linux\_problem\_sheet.pdf

./README.md

**5. Check if a folder exists or not. IF it's not present, create it.**

AKHIL@DESKTOP-43E18QK MINGW64 /c/TerminalCommand/linux-content (master)

$ nano folder1.sh

#! /bin/bash

if [ -d "myFolder" ]

then

echo "folder already exists!!"

else

mkdir myFolder

echo "$foldername created"

fi

Output:

AKHIL@DESKTOP-43E18QK MINGW64 /c/TerminalCommand/linux-content (master)

$ ./folder1.sh

created

(OR)

AKHIL@DESKTOP-43E18QK MINGW64 ~/TerminalCommands/linux-content (master)

$ [ -d tufs ] && echo "Directory Exists" || echo "Directory Not Exists" && mkdir tufs && echo "created"

Output:

Directory Not Exists

created

**6. Execute command "hello" and "ls" and check its execution status and print whether command executed successfully or not.**

**Filename**

AKHIL@DESKTOP-43E18QK MINGW64 /c/TerminalCommand/linux-content (master)

$ nano hello.sh

#! /bin/bash

abc="hello"

if [ $? == 0 ]

then

echo "command executed successfully!!"

else

echo -e "hello"

echo "command failed to execute"

fi

Output:

AKHIL@DESKTOP-43E18QK MINGW64 /c/TerminalCommand/linux-content (master)

$ ./hello.sh

command executed successfully!!

AKHIL@DESKTOP-43E18QK MINGW64 /c/TerminalCommand/linux-content (master)

$ nano ls.sh

#! /bin/bash

xyz=`ls`

if [ $? == 0 ]

then

echo -e "ls"

echo "command executed successfully!!"

else

echo "command failed to execute"

fi

Output:

AKHIL@DESKTOP-43E18QK MINGW64 /c/TerminalCommand/linux-content (master)

$ ./ls.sh

ls

command executed successfully!!

**7. Set Environment usersecret="dH34xJaa23" if its already not set**

AKHIL@DESKTOP-43E18QK MINGW64 ~

$ nano usersecret.sh

#! /bin/bash

len=`echo $usersecret`

lenu=`echo ${#len}`

if [ ${#len} -eq 0 ]

then

value="dH34xJaa23"

export usersecret=$value

echo "all set"

else

echo "error"

fi

Output:

AKHIL@DESKTOP-43E18QK MINGW64 ~

$ ./usersecret.sh

all set

**8. Find a word "systemd" from all log files in the folder /var/log and print number of occurrence more than 0 against each file.**

[root@localhost linux-content]# whereis systemd

systemd: /usr/lib/systemd /etc/systemd /usr/share/systemd /usr/share/man/man1/systemd.1.gz

[root@localhost linux-content]# ps -eaf | grep [s]ystemd

root 1 0 0 Nov30 ? 00:00:10 /usr/lib/systemd/systemd --switched-root --system --deserialize 21

root 356 1 0 Nov30 ? 00:00:07 /usr/lib/systemd/systemd-journald

root 393 1 0 Nov30 ? 00:00:01 /usr/lib/systemd/systemd-udevd

root 503 1 0 Nov30 ? 00:00:02 /usr/lib/systemd/systemd-logind

dbus 512 1 0 Nov30 ? 00:00:03 /bin/dbus-daemon --system --address=systemd: --nofork --nopidfile --systemd-activation

root 43905 6594 0 00:48 pts/1 00:00:00 grep --color=auto -o -i systemd

[root@localhost linux-content]# ps -eaf | grep [s]ystemd | wc -l

6

**9. Create processlist table displays process id, parent process id, command name,% of memory consumption,% of cpu utilization**

[root@localhost linux-content]# ps -eo pid,ppid,cmd,%mem,%cpu

PID PPID CMD %MEM %CPU

1 0 /usr/lib/systemd/systemd -- 0.3 0.3

2 0 [kthreadd] 0.0 0.0

3 2 [ksoftirqd/0] 0.0 0.0

6 2 [kworker/u256:0] 0.0 0.1

7 2 [migration/0] 0.0 0.0

8 2 [rcu\_bh] 0.0 0.0

9 2 [rcu\_sched] 0.0 0.0

10 2 [watchdog/0] 0.0 0.0

12 2 [khelper] 0.0 0.0

13 2 [kdevtmpfs] 0.0 0.0

**10. Print last 4 frequently access urls count in sorted order from /var/log/httpd/access.log**

AKHIL@DESKTOP-43E18QK MINGW64 /c/TerminalCommand/linux-content (master)

$ cat access.log|awk '{print $11}'|grep -v '"-"'|sort|uniq -c |sort -nr|head -4

416 "https://fundoopush-dev.bridgelabz.com/dashboard/article"

356 "https://fundoopush-dev.bridgelabz.com/login"

153 "https://fundoopush-dev.bridgelabz.com/add-post"

2 "http://fundoopush-dev.bridgelabz.com/.well-known/acme-challenge/4xM-Y1899BrBIJ76P5Er2sj2VhEtyi\_DFvfo6xiMXXw"

**11. Print list of last 4 frequently access unique urls at partucular hours from /var/log/httpd/access.log**

AKHIL@DESKTOP-43E18QK MINGW64 /c/TerminalCommand/linux-content (master)

$ echo -e |cat access.log | awk '{print $4"["$11}' | sort | uniq -c | sort -r |head -4 | awk -F[ '{print $1 $2"--"$3}'

6 23/Sep/2019:13:29:38--"https://fundoopush-dev.bridgelabz.com/dashboard/article"

6 23/Sep/2019:13:19:33--"https://fundoopush-dev.bridgelabz.com/dashboard/article"

6 23/Sep/2019:13:18:36--"https://fundoopush-dev.bridgelabz.com/dashboard/article"

6 23/Sep/2019:13:16:34--"https://fundoopush-dev.bridgelabz.com/dashboard/article"

**12. Print list of web response code count in the unique sorted at specific hours**

AKHIL@DESKTOP-43E18QK MINGW64 /c/TerminalCommand/linux-content (master)

$ echo -e|cat access.log| awk '{print $9}'|sort|uniq -c|sort -nr|head -4

1000 200

15 304

6 206

1

**13. Print list of 10 unique sorted client IP /var/log/httpd/access.log**

AKHIL@DESKTOP-43E18QK MINGW64 /c/TerminalCommand/linux-content (master)

$ echo -e|cat access.log| awk '{if (NR!=1){print substr($16,2,length($16)-2)}}'|sort -nr|uniq -c|head -10

1 209.17.96.18

1 86\_64

2 66.249.79.48

2 66.249.79.45

2 66.249.79.42

1 66.249.75.79

4 66.249.73.95

2 66.249.66.73

1 66.249.66.71

1001 ppleWebKit/537.

**14.**

1) print EmployeeName and TotalPay who has BasePAy greater than 10000

AKHIL@DESKTOP-43E18QK MINGW64 /c/TerminalCommand/linux-content (master)

$ cat data.csv |awk '$4>10000'|awk '{print $2 " " $7}'

EmployeeName TotalPay

NATHANIEL 567595

GARY 538909

ALBERT 335279

CHRISTOPHER 332343

PATRICK 326373

DAVID 316285

ALSON 315981

DAVID 307899

JOANNE 302377

PATRICIA 297608

EDWARD 294580

2) What is the aggregate totalPay of employees whose jobtitle is CAPTAIN

[root@localhost linux-content]# cat data.csv | grep -i captain | awk '{sum+=$7}END{print sum}'

1171796

3) Print JobTitle and OverTimepay who has Ovevrtime is between 7000 and 10000

AKHIL@DESKTOP-43E18QK MINGW64 /c/TerminalCommand/linux-content (master)

$ cat data.csv|awk '{if(7000<$5 && $5<10000) print $3 " "$5}'

DEPUTYCHIEF 9737

ASSTDEPUTY 8601

4) Print average BasePay

AKHIL@DESKTOP-43E18QK MINGW64 /c/TerminalCommand/linux-content (master)

$ cat data.csv | awk '{sum+=$4;}END{print sum/(NR-1)}'

172333

**15. Find the difference between original file and the updated file. Apply changes to the original file.**

#! /bin/bash

diff=`diff -iEZ ~/TerminalCommands/linux-content/original/original-file.sh ~/TerminalCommands/linux-content/updated/update-file.sh`

echo ${#diff}

if [ ${#diff} -gt 0 ]

then

echo "There is Difference in Files"

cp ~/TerminalCommands/linux-content/original/original-file.sh ~/TerminalCommands/linux-content/updated/update-file.sh

echo "applied changes to UpdatdeFolder"

else

echo "No difference!! "

fi

if [ -d 'original-backup' ]

then

cp ~/TerminalCommands/linux-content/original/original-file.sh ~/TerminalCommands/linux-content/original-backup

else

mkdir original-backup

cp ~/TerminalCommands/linux-content/original/original-file.sh ~/TerminalCommands/linux-content/original-backup

fi

diff2=`diff -iEZ ~/TerminalCommands/linux-content/original-backup/original-file.sh ~/TerminalCommands/linux-content/updated/update-file.sh`

if [ ${#diff2} == 0 ]

then

echo "Changes Applied Successfully.... Backup Created!"

else

echo "differ in updated - backup"

fi

output:

AKHIL@DESKTOP-43E18QK MINGW64 ~/TerminalCommands/linux-content (master)

$ ./difference.sh

0

No difference!!

Changes Applied Successfully.... Backup Created!