```
[aravi@TechArkit:~]$ How to Monitor CPU utilization.? when it went to above 98% CRIITAL, 90-98 WARNING, below 90% then it should not send any alert. ^C TechArkit:~]$

[aravi@TechArkit:~]$

[aravi@TechArkit:~]$ template

Please provide filename you want create: cpualert

[aravi@TechArkit:~]$ cd /scripts/

[aravi@TechArkit:/scripts]$ clear
```

```
PATHS="/"

HOSTNAME=$(hostname)

CRITICAL=98

WARNING=90

CRITICALMail="YOUREMAILaddresS@Domain.com"

MAILWAR="YOUREMAIL@Domain.in"

mkdir -p /var/log/cputilhist

LOGFILE=/var/log/cputilhist/cpusage-`date +%h%d%y`.log

touch $LOGFILE
```

```
[aravi@TechArkit:/scripts]$ sh cpualert.sh
nkdir: cannot create directory '/var/log/cputilhist': Permission denied
touch: cannot touch '/var/log/cputilhist/cpusage-Jun0518.log': No such file or directory pualert.sh: line 33: /var/log/cputilhist/cpusage-Jun0518.log: No such file or directory
                                                                                                                                                                                                                                                                                                                                                                       TechArki
                                             /scripts]$ sudo -s
 [sudo] password for aravi:
[root@TechArkit:/scripts]# sh cpualert.sh
[root@TechArkit:/scripts]# cd /var/log/
[root@TechArkit:/var/log]# ls
                                                                                                                                                                                            maillog
maillog-20180502
 anaconda
                                                boot.log-20180516 cron
                                                                                                                                         firewalld
                                                                                                                                                                                                                                               messages-20180516 secure
                                                                                                                                                                                                                                                                                                                                                  spooler-20180506
                                                                                                                                                                                                                                                                                                                                                                                                                 wpa_supplicant.lo
                                               boot.log-20180519 cron-20180502 gdm
                                                                                                                                                                                                                                                                                                secure-20180502
                                                                                                                                                                                                                                                                                                                                                  spooler-20180516
                                                                                                                                                                                                                                              pluto
                                                                                                                                                                                                                                                                                                                                                                                                                 wtmp
                                                                                                                                                                                                                                                                                                                                                                                                                Xorg.0.log
                                                boot.log-20180521 cron-20180506 glusterfs
poot.log
                                                                                                                                                                                             maillog-20180506
maillog-20180516
                                                                                                                                                                                                                                              ppp
qemu-ga
                                                                                                                                                                                                                                                                                                 secure-20180506
                                                                                                                                                                                                                                                                                                                                                 tallylog
| Doot.log-20180506 | Domp | Doot.log-20180502 | Doot.log-20180510 | Doot.log-20180512 | Doot.log-20180502 | Doot.log-20180502
                                                                                                                                                                                                                                                                                                secure-20180516
                                                                                                                                        grubby
                                                                                                                                                                                                                                                                                                                                                                                                                 Xorg.0.log.old
                                                                                                                                         grubby_prune_debug messages
                                                                                                                                                                                                                                                                                                                                                 vmware-vgauthsvc.log.0
                                                                                                  cups
                                                                                                                                                                                                                                               rhsm
                                                                                                                                                                                                                                                                                                 speech-dispatcher
                                                                                                                                                                                                                                                                                                                                                                                                               Xorg.1.log
                                                                                                                                         lastlog
                                                                                                                                                                                             messages-20180502 sa
                                                                                                                                                                                                                                                                                                 spooler
                                                                                                                                                                                                                                                                                                                                                  vmware-vmsvc.log
                                                                                                                                                                                                                                                                                                                                                                                                                 Xorg.9.log
                                                                                                                                                                                                                                                                                                spooler-20180502 vmware-vmusr.log
                                                                                                  dmesq.old
                                                                                                                                                                                            messages-20180506 samba
                                                                                                                                        libvirt
                                                                                                                                                                                                                                                                                                                                                                                                               yum.log
[root@TechArkit:/var/log]# cd cputilhist/
[root@TechArkit:/var/log/cputilhist]# ls
:pusage-Jun0518.log
[root@TechArkit:/var/log/cputilhist]# cat cpusage-Jun0518.log
2018-06-05 21:53:51 OK - 0 on TechArkit
[root@TechArkit:/var/log/cputilhist]# crontab -
# crontab -e

    # root@TechArkit:/var/log/cputilhist

*/5 * * * * sh /scripts/cpualert.sh
```

# Disk Space Monitoring Using Shell Script





```
[aravi@TechArkit:~]$ template
Please provide filename you want create: diskspace
[aravi@TechArkit:~]$ cd /scripts/
[aravi@TechArkit:/scripts]$ vi diskspace.sh
```

```
THRESHOULD=40
mailto="root"
HOSTNAME=$(hostname)

for path in `/bin/df -h | grep -vE 'Filesystem|tmpfs' | awk '{print $5}' | sed 's/%//g'`

do
    if [ $path -ge $THRESHOULD ]; then
    df -h | grep $path% >> /tmp/temp
    fi

done

VALUE=`cat /tmp/temp | wc -l`
    if [ $VALUE -ge 1 ]; then
    mail -s "$HOSTNAME Disk Usage is Critical" $mailto < /tmp/temp
    fi</pre>
```

```
root@Siddhartha:~# vi disk.sh
root@Siddhartha:~# bash disk.sh
```

```
root@Siddhartha:~# cd /tmp
root@Siddhartha:/tmp# ls
systemd-private-303c8ed316e0431b9da1e72efd14f943-systemd-logind.service-FWudEg temp
systemd-private-303c8ed316e0431b9da1e72efd14f943-systemd-resolved.service-BgcPoU
```

```
root@Siddhartha:/tmp# ls
systemd-private-303c8ed316e0431b9da1e72efd14f943-systemd-logind.service-FWudEg
                                                                                temp
systemd-private-303c8ed316e0431b9da1e72efd14f943-systemd-resolved.service-BgcPoU
root@Siddhartha:/tmp# cat /tmp/temp
                           23G 84% /usr/lib/wsl/drivers
none
               140G 117G
C:\
               140G 117G
                            23G 84% /mnt/c
none
               140G 117G
                            23G 84% /usr/lib/wsl/drivers
C:\
               140G 117G
                            23G 84% /mnt/c
D:\
                70G
                      48G
                            22G 69% /mnt/d
root@Siddhartha:/tmp#
```

Τ

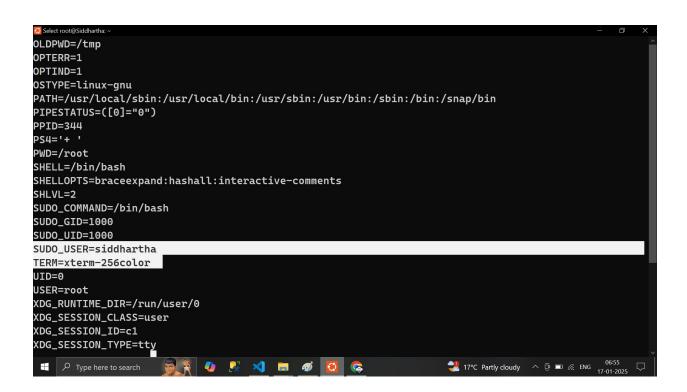
IFS - Internal Field Separator in Shell Scripts. Using any separator value we can separator the content in shell scripts internally.



```
# START #
LINE=`cat /etc/passwd | grep $1`
IFS=:
set $LINE
echo "User Name = $1"
echo "Password = $2"
echo "UID = $3"
echo "GID = $4"
echo "Description = $5"
echo "Home Directory = $6 "
echo " Current Shell = $7"
```

```
root@Siddhartha:~# bash ifs.sh siddhartha
User Name = siddhartha
Password = x
UID = 1000
GID = 1000
Description = ,,,
Home Directory = /home/siddhartha
   Current Shell = /bin/bash
root@Siddhartha:~#
```

# indetail . below are output



## How to Find Linux System Load History

system load average, CPU usage and memory usage history shell script. run on multiple servers from single server

#### # Code

```
# Log File Path
LOGFILE=/var/log/systemload.log

HOSTNAME=$(hostname)
DATE=$(date "+%d-%m-%Y %H:%M:%S")
SYSTEMLOAD=$(uptime | awk '{ print $8,$9,$10,$11,$12}')
CPULOAD=$(top -b -n 2 -d1 | grep "Cpu(s)" | tail -n1 | awk '{print $2}')
MEMORYUSAGE=$(free -m | grep Mem: | tail -n1 | awk '{print $2,$3}')
echo "$DATE $HOSTNAME LoadAverage: $SYSTEMLOAD CPU: $CPULOAD Memory: $MEMORYUSAGE" >>> $LOGFILE
```

systemload.sh

```
root@Siddhartha:~# bash systemload.sh
24-02-2019 21:32:20 ipa.arkit.lab.local LoadAverage: 0.01, 0.08 CPU: 2.9 Memory: 3778
1044
```

Advanced Shell Scripting Tutorial - Scenario: Everyday from Monday to Friday one directory will be created under /fullbackup/dailybackup/YYYY-MM-DD and it will move backup to its parent directory everyday midnight /fullbackup/archive/, However Saturday, Sunday and Monday directories will move to /fullbackup/archive path every Monday evening.

Directory Names Example: 2018-12-24 2018-12-25 2018-12-26 2018-12-27 2018-12-28

Question: I would like to delete directories older than two days from /fullbackup/archive path. How do you do it using any scripting methods.

Problem Statement: I was trying to use find /path/ -type d -mtime +2 -print0 | xargs -r0 rm -- .

This command does not work as expected due to directory modified date for SAT, SUN and MON are Mondays date.

How Do you solve it.?? Write Shell Script or Any other script to accomplish this task.Should run through Crontab and clear directories older than two days.

Scenario: Every day from Monday to Friday one directory will be created under /fullbackup/dailybackup/YYYY-MM-DD and it will move back up to its parent directory everyday midnight /fullbackup/archive/, However Saturday, Sunday and Monday directories will move to /fullbackup/archive path every Monday evening.

Directory Names Example: 2018-12-24 2018-12-25 2018-12-26 2018-12-27 2018-12-28

Question: I would like to delete directories older than two days from /fullbackup/archive path. How do you do it using any scripting methods?

<u>Problem Statement:</u> I was trying to use find /path/ -type d -<u>mtime</u> +2 -<u>print0 | xargs</u> -r0 <u>rm</u> <u>--.</u> This command does not works as expected due to directory modified date for SAT, SUN and MON are Mondays date.

How do you solve It.?? Write Shell Script or Any other script to accomplish this task. Should run through crontab and clear directories older than two days.

```
[root@TechArkit-Server ~]#
[root@TechArkit-Server ~] # mkdir -p /fullbackup/dailybackup/
[root@TechArkit-Server ~] # cd /fullbackup/dailybackup/
[root@TechArkit-Server dailybackup]# mkdir 2018-12-24 2018-12-25 2018-12-26 2018-12-27
2018-12-28
[root@TechArkit-Server dailybackup] # ls
2018-12-24 2018-12-25 2018-12-26 2018-12-27 2018-12-28
[root@TechArkit-Server dailybackup]# ls -ltr
drwxr-xr-x 2 root root 6 Dec 31 22:34 2018-12-28
drwxr-xr-x 2 root root 6 Dec 31 22:34 2018-12-27
drwxr-xr-x 2 root root 6 Dec 31 22:34 2018-12-26
drwxr-xr-x 2 root root 6 Dec 31 22:34 2018-12-25
drwxr-xr-x 2 root root 6 Dec 31 22:34 2018-12-24
[root@TechArkit-Server dailybackup]# mkdir 2018-12-29 2018-12-30 2018-12-31 2019-01-01
[root@TechArkit-Server dailybackup]# ls
2018-12-24 2018-12-26 2018-12-28 2018-12-30 2019-01-01
2018-12-25 2018-12-27 2018-12-29 2018-12-31
```

# Folder Structure

# Move this Structure to other Dir

```
[root@TechArkit-Server ~]#
 [root@TechArkit-Server ~]# mkdir -p /fullbackup/archive/
 [root@TechArkit-Server ~]# mv /fullbackup/dailybackup/* /fullbackup/archive/
 [root@TechArkit-Server ~]# cd /fullbackup/archive/
 [root@TechArkit-Server archive]# ls -ltr
 total 0
 drwxr-xr-x 2 root root 6 Dec 31 22:34 2018-12-28
 drwxr-xr-x 2 root root 6 Dec 31 22:34 2018-12-27
 drwxr-xr-x 2 root root 6 Dec 31 22:34 2018-12-26
 drwxr-xr-x 2 root root 6 Dec 31 22:34 2018-12-25
 drwxr-xr-x 2 root root 6 Dec 31 22:34 2018-12-24
 drwxr-xr-x 2 root root 6 Dec 31 22:35 2019-01-01
 drwxr-xr-x 2 root root 6 Dec 31 22:35 2018-12-31
 drwxr-xr-x 2 root root 6 Dec 31 22:35 2018-12-30
 drwxr-xr-x 2 root root 6 Dec 31 22:35 2018-12-29
 [root@TechArkit-Server archive]#
[root@TechArkit-Server ~]#
[root@TechArkit-Server ~] # cd /fullbackup/archive/
[root@TechArkit-Server archive] # stat 2018-12-24
 File: '2018-12-24'
 Size: 6
                      Blocks: 0
                                         IO Block: 4096
                                                          directory
evice: fd01h/64769d
                      Inode: 68611261
                                         Links: 2
Access: (0755/drwxr-xr-x) Uid: ( 0/
                                         root) Gid: (
                                                           0/
                                                                 root)
Access: 2018-12-31 22:34:33.272098646 -0500
Modify: 2018-12-31 22:34:33.272098646 -0500
hange: 2018-12-31 22:35:45.992102114 -0500
Birth: -
[root@TechArkit-Server archive]#
root@TechArkit-Server ~] # mkdir /scripts
root@TechArkit-Server ~] # cd /scripts/
root@TechArkit-Server scripts]# vi morethanxdays.sh
```

```
💌 Shell Scripting Tutorial for Begil - X - De Advanced Shell Scripting Tu- 49 - X - Q - shell-scripting-tutorial/moreths - X - Q - Linux System Load History shell - X - + +
→ C % github.com/techarkit/shell-scripting-tutorial/blob/FOTV/morethanxdays.sh
                                                                                       ☑ ◎ ☆ ◘ | ■ 🕹 🥏
  ← Files
              FOTV shell-scripting-tutorial / morethanxdays.sh
                                                                                                        ↑ Top
                                                                                 Code
                                                                                                           \Box
            Blame
              THE NOTE TOUTUDE LINK TO EXPLANACION NECESSITY YOULUSDESTING WEEKAH
              ls -ltr /fullbackup/archive/ | awk '{print $9}' > /scripts/dirs
             for i in `cat /scripts/dirs`; do
              STARTTIME=$(date +%s -d"$i 00:00:00")
              ENDTIME=$(date +%s)
              echo $((ENDTIME-STARTTIME)) | awk '{print int($1/60)}' > /scripts/value
              COUNT=`cat /scripts/value`
              if [ $COUNT -gt 2880 ]; then
              echo "Directories are older than 2days $i" >> /scripts/joblog
              rm -rf /fullbackup/archive/$i
              done
                     👼 🧗 🐠 尽 刘 🗎 🐠 💪 🖸 🚾
                                                                          Nifty bank -1.72% ^ 🐼 🛈 📼 // ENG 17-01-2025
```

```
#!/bin/bash
## Delete the Directories older than 2 days based on directory name validation
Is -ltr /fullbackup/archive/ | awk '{print $9}' > /scripts/dirs
for i in `cat /scripts/dirs`; do
STARTTIME=$(date +%s -d||$i 00:00:00||)
ENDTIME=$(date +%s)
echo $((ENDTIME-STARTTIME)) | awk '{print int($1/60)}' > /scripts/value
COUNT=`cat /scripts/value`
if [ $COUNT -gt 2880 ]; then
echo "Directories are older than 2days $i" > /scripts/joblog
rm -rf /fullbackup/archive/$i
fi
done
```

```
[root@TechArkit-Server ~]# mkdir /scripts
[root@TechArkit-Server ~] # cd /scripts/
[root@TechArkit-Server scripts]# vi morethanxdays.sh
[root@TechArkit-Server scripts]# ls -ltr /fullbackup/archive/ | awk '{print $9}'
2018-12-28
2018-12-27
2018-12-26
2018-12-25
                            T
2018-12-24
2019-01-01
2018-12-31
2018-12-30
2018-12-29
[root@TechArkit-Server scripts]# vi morethanxdays.sh
[root@TechArkit-Server scripts]# vim morethanxdays.sh
[root@TechArkit-Server scripts]# date +%s -d"2019-01-01 00:00:00"
1546318800
[root@TechArkit-Server scripts]#
[root@TechArkit-Server scripts]# date +%s
1546314309
[root@TechArkit-Server scripts]# date +%s -d"2019-01-01 00:00:00"
1546318800
[root@TechArkit-Server scripts]#
[root@TechArkit-Server ~]#
[root@TechArkit-Server ~] # vim /scripts/morethanxdays.sh
[root@TechArkit-Server ~] # chmod u+x /scripts/morethanxdays.sh
[root@TechArkit-Server ~] # sh /scripts/morethanxdays.sh^C
[root@TechArkit-Server ~]# ls /fullbackup/archive/
2018-12-24 2018-12-26 2018-12-28 2018-12-30
                                                     2019-01-01
2018-12-25 2018-12-27 2018-12-29 2018-12-31
[root@TechArkit-Server ~]# sh /scripts/morethanxdays.sh
[root@TechArkit-Server ~]# ls /fullbackup/archive/
2018-12-30 2018-12-31 2019-01-01
[root@TechArkit-Server ~]# date
Mon Dec 31 22:47:09 EST 2018
[root@TechArkit-Server ~]#
```

```
[root@TechArkit-Server ~] # date
Mon Dec 31 22:47:09 EST 2018
[root@TechArkit-Server ~]# cat /scripts/joblog
Directories are older than 2days 2018-12-29
[root@TechArkit-Server ~] # cat /scripts/value
4246
[root@TechArkit-Server ~]# cat /scripts/dirs
2018-12-28
2018-12-27
2018-12-26
2018-12-25
2018-12-24
2019-01-01
2018-12-31
2018-12-30
2018-12-29 I
```

[root@TechArkit-Server ~]#

### CPU, Memory, Disk Utilization Report from Multiple Servers Shell Script



Collecting and storing CPU, Memory and Disk Usage Report from servers in single file. Using single shell script.

```
root@Siddhartha:~# mkdir scripts
root@Siddhartha:~# ls
morethanxdays.sh scripts
root@Siddhartha:~# cd scripts
root@Siddhartha:~/scripts#
```

```
HOSTNAME=$(hostname)

DATET=$(date "+%Y-%m-%d %H:%M:%S")|

CPUUSAGE=$(top -b -n 2 -d1 | grep "Cpu(s)" | tail -n1 | awk '{print $2}' | awk -F. '{print $1}')

MEMUSAGE=$(free | grep Mem | awk '{print $3/$2 * 100.0}')

DISKUSAGE=$(df -h / | awk '{print $5}' | tail -n 1 | sed 's/%//g')

echo 'HostName, Date&Time, CPU(%), MEM(%), DISK(%)' >> /opt/usagereport

echo "$HOSTNAME, $DATET, $CPUUSAGE, $MEMUSAGE, $DISKUSAGE" >> /opt/usagereport

for i in 'cat /scripts/hostlist'

do

RHOST=$(ssh $i hostname)

RDATET=$(ssh $i 'date "+%Y-%m-%d %H:%M:%S"')

RCPUUSAGE=$(ssh $i top -b -n 2 -d1 | grep "Cpu(s)" | tail -n1 | awk '{print $2}' | awk -F. '{print $1}')

RMEMUSAGE=$(ssh $i free | grep Mem | awk '{print $3/$2 * 100.0}')

RDISKUSAGE=$(ssh $i df -P / | column -t | awk '{print $5}' | tail -n 1 | sed 's/%//g')

echo "$RHOST, $RDATET, $RCPUUSAGE, $RMEMUSAGE, $RDISKUSAGE" >> /opt/usagereport

done
```

```
| Type here to search | P | Type here to search | Type
```

```
192.168.2.50
192.168.2.10
```

```
root@Siddhartha:~/scripts# vi hostlist
root@Siddhartha:~/scripts# ls
cpumemdisk.sh hostlist
root@Siddhartha:~/scripts#
```

```
192.168.2.50
192.168.2.1<mark>0</mark>
```

```
root@Siddhartha:~# ls
scripts
root@Siddhartha:~# cat .ssh/id_rsa.pub
ssh-rsa AAAAB3NzaC1yc2EAAAADAQABAAABgQDdrbw9g5rFCrcZmDXPTk8KN9zSnX/pRtIJ5Ucqm0xViVwyZbBUJvMQ
qy8phw79VQQceA8bCq10CQAup7JctRpJprX5M/9ZTvpgwvCPm9v4pSyi2qKvrdsDx7edVeIRGUusXoSHtzWikDPTVrpX
U4vgv4WXeZ+F64MxejEEhJdyeY+3BTGrAgEqN353lapVctddBol9bTPSJU6dEi300KazbgW5/faCkkwsRGpTZiZupLb7
l/xF9ZjmfzjtF001DFK/BypRC09AgFiibbzmPwyv+bPFLEuVPa189bowxjX7Xi0iIJNqx7PjLIg4HelnHNYJHCLJ36hm
J+XPtZef9iqH61+oli4x7xsMX9+5N1lZIXoqv6Cr656RuimRBTQgwy3DLA7l/FFE986MuZ87aEUN3ZC0LcK6qHEHLG7V
cF/GIEivx6qd/UJKm0K9fnK5n+gTs5t/95DT9TMIP+r34g07or1/Pzsv09mo8= root@Siddhartha
root@Siddhartha:~#
```

```
root@Siddhartha:~# ssh 192.168.2.50
```

The authenticity of host '192.168.2.50 (192.168.2.50)' can't be established. ECDSA key fingerprint is SHA256:UB5xmAtfqUtdYLPKQAynaQHfVI8mbwylCQ0+gI4/EJ4. ECDSA key fingerprint is MD5:53:2b:d7:c1:b9:a9:31:17:cb:44:fb:bf:6f:4b:16:39. Are you sure you want to continue connecting (yes/no)? yes Warning: Permanently added '192.168.2.50' (ECDSA) to the list of known hosts. root@192.168.2.50's password:

# root@Siddhartha:~# ls -ls

```
total 20
4 -rw-----. 1 root root 1806 Jan 23 02:57 anaconda-ks.cfg
0 drwxr-xr-x. 2 root root
                            6 Jan 22 21:37 Desktop
0 drwxr-xr-x. 2 root root
                             6 Jan 22 21:37 Documents
0 drwxr-xr-x. 2 root root
                             6 Jan 22 21:37 Downloads
4 -rw-r--r-. 1 root root 1854 Jan 22 21:31 initial-setup-ks.cfg
0 drwxr-xr-x. 2 root root
                             6 Jan 22 21:37 Music
4 -rw-r--r-. 1 root root 905 Mar 19 22:11 NagiosXi
4 -rw-r--r--. 1 root root
                            13 Apr 16 21:33 passwdfile
0 drwxr-xr-x. 2 root root
                             6 Jan 22 21:37 Pictures
0 drwxr-xr-x. 2 root root
                             6 Jan 22 21:37 Public
                             6 Jan 22 21:37 Templates
0 drwxr-xr-x. 2 root root
4 -rw-r--r--. 1 root root
                           907 Apr 16 22:48 test.zip
                             6 Jan 22 21:37 Videos
0 drwxr-xr-x. 2 root root
[root@TechArkit ~1# le -
```

```
root@Siddhartha:~# cd .ssh/
root@Siddhartha:~/.ssh# ls
authorized_keys id_rsa id_rsa.pub
root@Siddhartha:~/.ssh# vim authorized_keys
root@Siddhartha:~/.ssh#
```

ssh-rsa AAAAB3NzaC1yc2EAAAADAQABAAABgQDdrbw9g5rFCrcZmDXPTk8KN9zSnX/pRtIJ5Ucqm0xViVwyZbBUJvMQ qy8phw79VQQceA8bCq10CQAup7JctRpJprX5M/9ZTvpgwvCPm9v4pSyi2qKvrdsDx7edVeIRGUusXoSHtzWikDPTVrpX U4vgv4WXeZ+F64MxejEEhJdyeY+3BTGrAgEqN353lapVctddBol9bTPSJU6dEi300KazbgW5/faCkkwsRGpTZiZupLb7 l/xF9ZjmfzjtF001DFK/BypRC09AgFiibbzmPwyv+bPFLEuVPa189bowxjX7XiOiIJNqx7PjLIg4HelnHNYJHCLJ36hm J+XPtZef9iqH61+oli4x7xsMX9+5N1lZIXoqv6Cr656RuimRBTQgwy3DLA7l/FFE986MuZ87aEUN3ZC0LcK6qHEHLG7V cF/GIEivx6qd/UJKm0K9fnK5n+gTs5t/95DT9TMIP+r34g07or1/Pzsv09mo8= root@Siddhartha

```
root@Siddhartha:~# cd .ssh/
root@Siddhartha:~/.ssh# ls
authorized_keys id_rsa id_rsa.pub
root@Siddhartha:~/.ssh# vim authorized_keys
root@Siddhartha:~/.ssh# cd
root@Siddhartha:~# exit
logout
siddhartha@Siddhartha:~$
```

```
root@Siddhartha:~# ls
scripts
root@Siddhartha:~# ssh 192.168.2.50
```

```
coot@Siddhartha:~/scripts# vi hostlist
root@Siddhartha:~/scripts# cd .
root@Siddhartha:~# ssh 127.0.0.1
The authenticity of host '127.0.0.1 (127.0.0.1)' can't be established.
ED25519 key fingerprint is SHA256:TFWc9/ifRjAxEsuDW3T6J0Sk+vsJcy2x1bM21M1kdXg.
This key is not known by any other names
Are you sure you want to continue connecting (yes/no/[fingerprint])?    yes
Warning: Permanently added '127.0.0.1' (ED25519) to the list of known hosts.
Welcome to Ubuntu 22.04.4 LTS (GNU/Linux 5.15.133.1-microsoft-standard-WSL2 x86_64)
* Documentation: https://help.ubuntu.com
 * Management:
                 https://landscape.canonical.com
* Support:
                 https://ubuntu.com/pro
* Strictly confined Kubernetes makes edge and IoT secure. Learn how MicroK8s
  just raised the bar for easy, resilient and secure K8s cluster deployment.
  https://ubuntu.com/engage/secure-kubernetes-at-the-edge
New release '24.04.1 LTS' available.
Run 'do-release-upgrade' to upgrade to it.
root@Siddhartha:~#
  {\cal P} Type here to search 👼 🧗 🧶 🤘 🗐 🧖 🧟 🦪 🗸
```

The authenticity of host '192.168.2.10 (192.168.2.10)' can't be established. ECDSA key fingerprint is SHA256:ypVw7VKYpnsMmTMYm08w9j8rLMQi3EnFjXFRZ/vd7E0. ECDSA key fingerprint is MD5:6e:ab:c4:8a:66:7c:43:a7:2a:3c:a8:d7:1d:c2:53:ba. Are you sure you want to continue connecting (yes/no)? yes Warning: Permanently added '192.168.2.10' (ECDSA) to the list of known hosts. root@192.168.2.10's password:

### root@Siddhartha:~# ls -ls

#### #LS-LA

```
total 88
drwx----- 10 root root 4096 Jan 17 16:40 .
drwxr-xr-x 31 root root 4096 Jan 17 16:24 ..
-rw----- 1 root root 10923 Jan 17 16:41 .bash_history
-rw-r--r-- 1 root root 3105 Jan 15 14:55 .bashrc
-rw-r--r-- 1 root root 3105 Jan 15 14:50 .bashrc.save
drwx----- 2 root root 4096 Feb 1 2024 .cache
drwx----- 3 root root 4096 Jan 15 15:17 .config
drwxr-xr-x 3 root root 4096 Nov 5 18:44 .docker
drwxr-xr-x 2 root root 4096 Nov 9 18:58 .kube
drwx----- 3 root root 4096 Nov 6 06:03 .launchpadlib
-rw----- 1 root root 20 Feb 8 2024 .lesshst
drwxr-xr-x 3 root root 4096 Jan 15 06:01 .<mark>local</mark>
-rw-r--r-- 1 root root 0 Jan 17 06:21 .motd_shown
-rw-r--r-- 1 root root 161 Jul 9 2019 .profile
-rw-r--r-- 1 root root 64 Dec 4 19:14 .selected_editor
drwx----- 2 root root 4096 Jan 17 16:40 .ssh
-rw-r--r-- 1 root root 0 Jan 15 18:04 .sudo_as_admin_successful
-rw----- 1 root root 12691 Jan 17 16:40 .viminfo
drwxr-xr-x 2 root root 4096 Jan 17 16:29 scripts
root@Siddhartha:~#
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```

```
root@Siddhartha:~# cd scripts
root@Siddhartha:~/scripts# ls
cpumemdisk.sh hostlist
root@Siddhartha:~/scripts# bash cpumemdisk.sh
```

O/P

```
root@Siddhartha:~/scripts# cat /opt/usagereport
HostName, Date&Time, CPU(%), MEM(%), DISK(%)
Siddhartha, 2025-01-17 16:49:22, 0, 4.77881, 1
root@Siddhartha:~/scripts#
```

### **Here Documents in Shell Scripts**



```
[aravi@TechArkit:~]$ template
Please provide filename you want create: heredoc
[aravi@TechArkit:~]$ cd /scripts/
[aravi@TechArkit:/scripts]$ vi heredoc.sh
```