# Linux Commands Linux Commands Sathyar Sathyar Sathyar Sathyar Sathyar Sathyar

### **Linux Commands**

```
# ----> root user
        $ ---> normal user
               Jer com

---> print working dir

7
          #whoami ---> for curr. user
          #who
          #date
          #pwd
          #cal
#cal may 2016
#clear
```

## to get Host (Server) Name:

```
#hostname
                 (short hostname)
                  (fully qualified hostname)
#hostname -f
```

```
allfie\
ine -i (or) sthrafecth.com
d w(or)
#ifconfig. 15th

#ifconfig. 15th

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```

### to get Memory details:

```
#free -m (RAM)
 #df
        (HDD)
 #df -h (Human Readable Format)
#df -m (File System in MB)
#du (dir usage)

**ss management:

#ps

#ps -ef | grep 'java'

#ps -ef | grep 'java'
```

### process management:

```
#ps -ef | grep 'java'
#ps -ef | grep 'mysql'
#top
```

### to kill a process:

```
Syntax:
                                                                                                                #kill <pid>
                                                                      Ex:
#kill -9 3456 (force kill) corn.

to kill a process by Name: setting

Syntax:

#pkill <pre
                                                              #pkill <pname>
                                                                                                                                                                                                 tomcat
```

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### **file Management:**

```
#touch demo.txt ---> to create an empty file
              #touch file{1..100}
              #cat > demo.txt ---> to insert data

llo world

od day

e

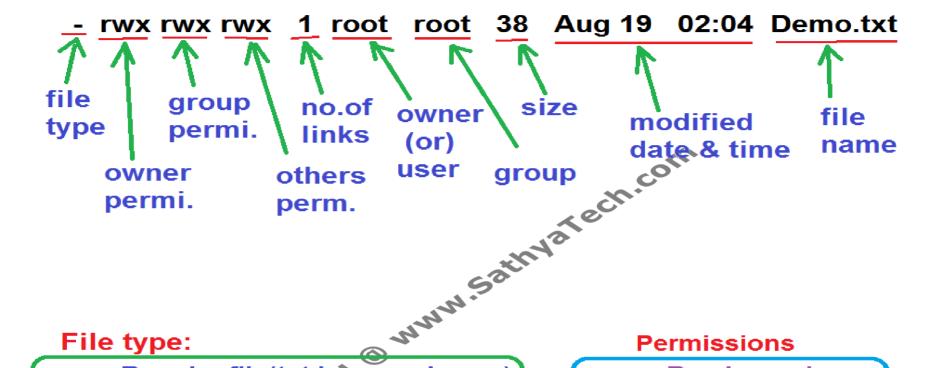
rl + d]
           Hello world
          good day
           bye
           [ctrl + d]
#cat demo.txt > sample ---> to copy data
#cat devops >> sample ---> +-
              #cat devops >> sample ---> to append data
```

### to List files:

```
#ls
#ls -i (to list inode values)
 #ls -r (to list in reverse order)
#ls -t (to list by time of modify)
#ls -s (to list by size)
#ls -a (to list hidden files)
#ls -l (for long list)

#cp demo.txt sample --> to copy data
                     --> to remove files
#rm demo.txt
```

### #Is -I

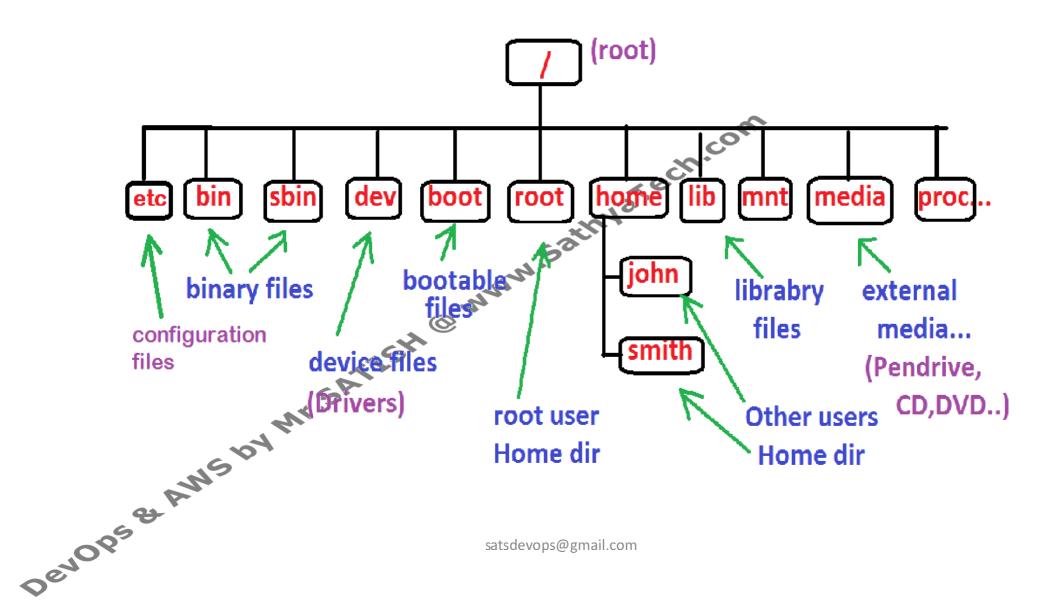


### File type:

- --> Regular file(txt,images,docs...)
- d --> Directory
- --> Link File 6
- --> Socket File
- c --> Char Special File
- b --> Rock Special File

- --> Read permi.
- w --> Write permi.
- --> Execute permi.
- --> no. permission

### **Linux directory Structure**



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### to Manage directries:

```
#mkdir mydir
#mkdir dir{1..100}
#cp sample mydir/
#cd mydir
#cd .. ---> to move to parent dir
#cd / ---> to move to root dir
#cd ~ ---> to move to home dir
#cd ---> to move to home dir
#cd - _____ to move to previous working dir.
#rmdir dir1
#rm -rf mydir
```

### **Linux Package Installation**

```
Redhat, Centos, Fedora, SuSE, Ubuntu,
Debian, Oracle Enterprise Linux, Slackwar,
 Gentoo, Mandark,
```

### RedHat / CentOS:

- Hat / CentOS:

  \* rpm (Redhat package Manager)
- \* yum

# **Ubuntu / Debian** \* apt \* apt-get

### **To Download Packages:**

```
#Syntax:
```

```
#wget <Package Name >
```

### Ex:

```
#wget http://downloads/jdk8....tar.gz
```

# To manage Packages using RPM:

```
#rpm -ivh httpd_package (package installation)
#rpm -uvh httpd_package (package Update)
#rpm -e httpd_package (to remove a package)
#rpm -q httpd_package (to Query a package)
```

### Yum:

```
#yum install tree -y
#yum install net-tools -y
#yum remove tree-y
#yum remove curl -y
#yum list installed ---> to list installed packages
#yum list installed | grep java
#yum list available
       list available | grep tomcat
#yum list all
                ----> to list all the packages
       update ----> to update all the packages
```

### apt / apt-get:

```
#apt-get install openjdk-7-jdk -y
#apt-get install tomcat7 -y
#apt-get install apache2 -y
#apt-get remove tomcat7 -y_con-co
#apt-get remove apache2 -y
#apt-get purge tomcat7 -y (to delete the files)
#apt-get purge apache2 -y
#apt-get autoremove -y (to delete all the
unused files)
```

### **To Update Packages:**

### for Redhat:

#yum update -y

### for Ubuntu:

### To Install packages:

### for Redhat:

#apt-get update

all packages:
dhat:

#yum install net-tools tree -y

# for Ubuntu:

#apt-get install wget curl -y

### To Install Java:

### for Redhat:

#yum install java -y #java -version

### for Ubuntu:

buntu:
#apt-get install openjak-7-jak-y #apt-get install openjdk-6-jdk -y

### **JDK1.8**

#sudo add-apt-re pository ppa:ope njdk-r/ppa #sudo apt-ge t update #sudo apt-ge t install ope njdk-8-jdk

### to Manage Services:

### for Redhat7 / Centos7:

```
#systemctl start tomcat
#service tomcat start

'service tomcat?"

"service tomcat?"

"service tomcat?"
 #systemctl enable tomcat
```

# for Ubuntu / Debian :

#service tomcat7 stop
#service tomcat7 restart

### **Web Server:**

- \* to deploy static web pages (.html files)
- \* Ex: apache, ngnix
- \* default port: 80

### **App Server:**

- \* default port : 80

  \* default deployment path : /var/www/html

  Server:

  \* to deploy static & dynamic web pages (.war,.jar)
- \* Ex: tomcat, weblogic, JBoss, websphere
- \* default port for tomcat: 8080
- \* default deployment path for tomcat:

for Redhat: /var/lib/tomcat/webapps

for Ubuntu: /var/lib/tomcat7/webapps

### to Install Web-Server:

```
for Redhat7:
```

#yum install net-tools y
#netstat —Intp

### for Ubuntu:

#service apache? #service apache? #apt-get install apache2 -y

(to stop service)

### to deploy web-pages of Web Server:

```
#cd /var/www/html
        #vi index.html
    <h1> Hello from Web-Server </h1>
[press 'Esc']
:wq ---> write and quit
```

Browser ---> http://<Public IP Address> Devops & AWS by

### to Install App-Server (tomcat):

```
for Redhat7:
       #yum install tomcat -y
       #systemctl start tomcat
       #systemctl enable tomcat
       #netstat -Intp
                                (to list processes)
       #ps -ef
       #ps -ef | grep 'java'
for Ubuntu:
       #apt-get install tomcat7-y
       #service tomcat7 start
       #service tomcat7 restart
       #ps -ef | grep 'tomcat'
```

```
to deploy static web-page for Tomcat:
```

```
#cd /var/lib/tomcat7/webapps/ROOT/
   #mv index.html index.html.bkp
```

:wq ---> write and quit

Browser ---> http://<public ip>:8080

### to deploy Dynamic web-page for Tomcat:

```
#cd /var/lib/tomcat7/webapps
     #wget http//sample.war....
```

#service tomcat7 restart

Browser ---> http://<Public IP>:8080/sample Devops & AWS by Mr. SATISH ©