

Linux Admin Commands

DevOps by Mr.SATISH @ SathyaTech
SatsDevOps@gmail.com

Linux Commands

----> root user

\$ ---> normal user

#whoami ---> for curr. user

#who

#date

#pwd ---> print working dir

#cal

#cal 2017

#cal may 2016

#clear

to get Host (Server) Name:

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

to get IP Address:

#hostname -i	(or)
#ip a	(or)
#ifconfig	

to get Memory details:

#free -m (RAM)

#df (HDD)

#df -h (Human Readable Format)

#df -m (File System in MB)

#du (dir usage)

process management:

#ps

#ps -ef

#ps -ef | grep 'java'

#ps -ef | grep 'mysql'

#top

to kill a process:

Syntax:

```
#kill <pid>
```

Ex:

```
#kill 1277
```

```
#kill -9 3456 (force kill)
```

to kill a process by Name:

Syntax:

```
#pkill <pname>
```

Ex:

```
#pkill java
```

```
#pkill tomcat
```

file Management:

#touch demo.txt ---> to create an empty file

#touch file{1..100}

#cat > demo.txt ---> to insert data

Hello world

good day

bye

[ctrl + d]

#cat demo.txt

#cat demo.txt > sample ---> to copy data

#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

#rm demo.txt --> to remove files

#ls -l

-	rwx	rwx	rwx	1	root	root	38	Aug 19	02:04	Demo.txt
file type	owner permi.	group permi.	others perm.	no.of links	owner (or) user	group	size	modified date & time		file name

File type:

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

Permissions

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

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  
#rm -rf *
```

Linux Package Installation

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

RedHat / 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  
#yum list available | grep tomcat  
#yum list all      ----> to list all the packages  
#yum 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  
#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 :

```
#apt-get update
```

To Install packages:

for Redhat :

```
#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 :

```
#apt-get install openjdk-7-jdk -y  
#apt-get install openjdk-6-jdk -y
```

JDK1.8

```
#sudo add-apt-repository ppa:openjdk-r/ppa  
#sudo apt-get update  
#sudo apt-get install openjdk-8-jdk
```

to Manage Services:

for Redhat7 / Centos7 :

```
#systemctl start tomcat
```

```
#systemctl enable tomcat
```

```
#systemctl stop tomcat
```

for Ubuntu / Debian :

```
#service tomcat7 start
```

```
#service tomcat7 stop
```

```
#service tomcat7 restart
```