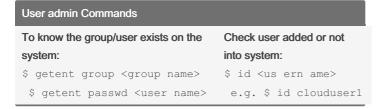


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System/OS related commands	User admin Commands (cont)
To know the OS type:	To knikovctteat@lhewclojiteature:
\$ uname -o	\$ unameudom groupadd <group name=""></group>
To check the kernel version:	To get the OS naithe, release, version aining
\$ uname -r	\$ caTo delete/thesexistingegroup:
To list the system hardware:	To get the CPU details <group name=""></group>
\$ lshw	\$ lscpug. \$ sudo groupdel training
To check system memory:	To check the virtual memory stats:
\$ free -h	\$ vmstat -S m
Free memory cache, dentries and inode (with root): $\phi = \phi = 0.3 > 0.00$	To print the process specific memory utilizations:
/proc/ sys /vm /dr op_ caches	\$ ps auxsort =-%mem
To search packages for installation:	To installed package:
<pre>\$ apt search <pa ckage="" name=""></pa></pre>	<pre>\$ sudo apt-get install <pa ckage="" name=""></pa></pre>
e.g.:	
<pre>\$ apt search python -boto</pre>	Print the groups to which the current user is associated:
To uninstall package:	To list the mounted disk drives:
\$ sudo apt-get remove <package name<="" td=""><td>\$ df -kh</td></package>	\$ df -kh
To mount the volume:	To list biggest files from directory (biggest 5):
(create the directory first to mount volume)	\$ sudo du -a /dir/ sort -n -r head -n 5 Change the group name:
<pre>\$ mkdir -p <di -vo="" eg="" l="" mount="" path="" rectory=""></di></pre>	\$ sudo groupmod -n <new group="" name=""> <old group="" name=""></old></new>
\$ sudo mount <src path=""> <above created="" dir="" path=""></above></src>	e.g. I want to change the groupname 'training' to 'c
Find the file (search for a file):	Search the text string in a directory and print filename containing that
<pre>\$ find <dir path=""> -name <fi ame="" len=""> -print</fi></dir></pre>	string: \$ sudo groupmod -n cloudadmin training
e.g. to find app.log in /var directory	\$ file /var -type f -print xargs grep <search text=""></search>
\$ find /var -name app.log –print`	
File the text string from a given directory:	
<pre>\$ grep -rIn <search text=""> <di path="" rectory=""></di></search></pre>	





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Editor/Text manipulation commands (cont) Editor/Text manipulation commands awk command for pattern scanning & processing: cut, cutting out the sections from lines: diff \$ cut -d "delim iter" -f <fi eld> <fi le.t xt> file 1. Convert text from upper case to lower case \$ echo " SAMPLE TEXT" | awk '{print tolowe r(\$0)}' a) cut the line on space and print 1st to 4th field 2 Print the next word after found a pattern \$ echo "my phone number is 887389 3" | cut -d " " -: e.g. print the next work after 'reach:' appear in sysloophande the delimiter space with column \$ awk '{for(i=1 ;i< =NF ;i+ +) i f(\$ i== " rea ch: ")psiretch@(i"+helllo/www.hbbg/sysshtoqd " " -f 1-2 --outp ut-3. Trim the white spaces echo ' aws <co mma nd> help ' | awk '{gsub(/^ +| +\$ sort is to sort file, records, lists etc: 4. Print the selected columns from command output. a) sort file contents of text file (-r option to reve E.g. from df command interested in only filesystem and use or time data \$ df -kh |awk '{print \$1 " " \$5}' b) sort based on column number 5. use regex as a field separator, \$ df -kh | sort -k 5 e.g input field separator as / or = e.g. \$ awk -F"= |:" '{print \$2}' input text as 'dnsco nf= /et c/r eso lv.c onf' or 'dnsco nf: /et c/r eso lv.c onf' for both same comma nd will work



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Editor/Text manipulation commands (cont)

Network related commands (cont)

tee, is a command which reads the standard input and write into standard ostppulsendrelsophy & dille.rethiestis lused to redirect logs or data to a file:

a) copy file from remote host

a) Finc

a) let we have two log files, file1.log & file2.log and wesyntext) to appreind peinlefile of the ambose (< remodent

\$ cat file1.log | tee -a file2.log irpat h>

b) redirect the command output to a log file

\$ du --max- depth=1 -h | sort -hr 2>&1 | tee du.log

e.g. \$ scp id_rsa.pem rakesh @19 2.1 68.5 6.1210):/dbel

b) copy local file to remote host

\$ scp -i id_rsa.pem data.txt rakesh @19 2.1 68c) 6el

lsof, list open files by processes

(check

a) list open files by specific user

b) find processes running on specific port

lsof -u <us ern ame>

Network related commands

- nslookup, Query internet domain name server a) find the IP from fqdn
- \$ nslookup google.com
- b) check the fqdn from ip address
- \$ nslookup 172.21 7.1 67.174

netstat, print the network stats; listening ports etc

- a) print all listening ports
- \$ netstat -plunt
- b) check if serve curl ficoning co, get the public ip of the machine
- \$ netstat -plunt \$ grep \$980nf ig.co
- c) list stats of all ports
- \$ netstat -s
- d) display pid of listening ports
- \$ netstat -pt
- e) list network interfaces
- \$ netstat -i

ufw, manage firewall

- a) check firewall status
- \$ sudo ufw status
- b) enable /di sable firewall
- \$ sudo ufw enable /di sable

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sed - stream editor

sed - stream editor (cont)

Sed - perform basic transformations on an input stream i.e. a file or a stream transformations on an input stream i.e. a file or a stream transformations on an input stream i.e. a file or a stream transformation or a stream transformatio

Example: replace all occurrences of TCP to UDP in network.log file

Extract the line containing IP address from a file

 $\$ sed 's/TCP /UDP/' networ k.log > modifi ed- net wor k.sedgrn'/([0-9]{1,3}\.){3}[0-9]{1,3}\.)

Common sed command line options

- -i : edit in place i.e. sed -i 's/TCP/UDP/' network.log
- -n -n -n ine number>p e.g. print on line no 30 from network.log sed -n '30p' network.log
- -e : expression e.g. sed -e 's/TCP/UDP/' network.log

[here 's' stand for substitute]

Basic regular expression overview

- .: (dot) matches any single character
- *: matches a sequence of zero or more instances e.g.

```
$ echo 'hostn ame =lo cal hos t.m yor g.com' | sed 's/l.l/myap pse
rver/' *
```

- A: indicates the beginning of the line
- \$: indicates the end of the line

[list] or [^list] :matches any single char in a list. e.g. [1-9] matches any digit from 1 to 9

\+ : As *, matches any single or multiple instances of chars

\?: As *, matches any zero or one instances of chars

\{i\}: matches exactly /sequences 'i is between 0 to 255'

\{i,\}: matches more than or equal to /sequences

regex1|regex2: matches regular expression 1 or regular expression 2

[a-z0-9A-z]: matches any ASCII chars

Examples

find and replace any os name with Ubuntu

e.g. 1.

input: osname: centOS7 output: osname: Ubantu

2

input: winOS: Windows-10 output: osname: Ubantu

3.

input: MacOS:Mac10 output: osname: Ubantu

Solution:

 $\label{lem:key=echo} \textbf{ " < input string > " | cut -d " : " -f 1}$

echo "<input string" | sed -e 's/^\$key:\s.\$/\$key: Ubantu/g'

first store the key i.e. left side label

^ - start of line

\s* - zero or more space charaters

.* - any zero or multiple charaters



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