Linux Commands to know by DevOps Engineer Cheat Sheet by rakesh zingade via cheatography.com/71377/cs/18096/

System/OS related commands	User admin Commands (cont)
To know the OS type:	To knikovctleat@Pelhevclgitectpure: \$ un%ameudom groupadd <group name=""></group>
To check the kernel version:	To get the OS name, release, version.aining \$ cato delete the existing group:
S unlane If To list the system hardware: \$ lshw	<pre>\$ Calo delete the existing group. To get the CPU delaidsel <group name=""> \$ lscpug. \$ sudo groupdel training</group></pre>
To check system memory: \$ free -h	To check the virtual memory stats: \$ vmstat -S m
<pre>Free memory cache, dentries and inode (with root): \$ echo 3 > /proc/ sys /vm /dr op_ caches</pre>	To print the process specific memory utilizations: \$ ps auxsort =-%mem
To search packages for installation: \$ apt search <pa ckage="" name=""> e.g.:</pa>	To installed package: \$ sudo apt-get install <pa ckage="" name=""></pa>
<pre>\$ apt search python -boto To uninstall package: \$ sudo apt-get remove <package name<="" pre=""></package></pre>	Print the groups to which the current user is associated: To list the mounted disk drives: \$ df -kh
To mount the volume: (create the directory first to mount volume) \$ mkdir -p <di -vo="" eg="" l="" mount="" path="" rectory=""> \$ sudo mount <src path=""> <above created="" dir="" path=""></above></src></di>	To list biggest files from directory (biggest 5): \$ sudo du _a /dir/ sort -n -r head -n 5 Change the group name: \$ sudo groupmod -n <new group="" name=""> <old group="" name=""> e.g. I want to change the groupname `training' to `c</old></new>
<pre>Find the file (search for a file): \$ find <dir path=""> -name <fi ame="" len=""> -print e.g. to find app.log in /var directory \$ find /var -name app.log -print`</fi></dir></pre>	Search the text string in a directory and print filename containing that string: \$ sudo groupmod -n cloudadmin training \$ file /var -type f -print xargs grep <search text=""></search>
File the text string from a given directory: \$ grep -rIn <search text=""> <di path="" rectory=""></di></search>	

User admin Commands

To know the group/user exists on the	Check user added or not
system:	into system:
<pre>\$ getent group <group name=""></group></pre>	\$ id <us ame="" ern=""></us>
<pre>\$ getent passwd <user name=""></user></pre>	e.g. \$ id clouduser1

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Editor/Text manipulation commands	Editor/Text manipulation commands (cont)	
awk command for pattern scanning & processing:	cut, cutting out the sections from lines: diff	
1. Convert text from upper case to lower case	<pre>\$ cut -d "delim iter" -f <fi eld=""> <fi le.t="" xt=""> file</fi></fi></pre>	
<pre>\$ echo " SAMPLE TEXT" awk '{print tolowe r(\$0)}'</pre>	a) cut the line on space and print 1st to 4th fiel ${\mathbf \Phi}$	
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 syslogchange the delimiter space with column		
<pre>\$ awk '{for(i=1 ;i< =NF ;i+ +)i f(\$ i== " rea ch:</pre>	')pr\$iretch\$)(1"+h)e]]lo/waar/lddg/sysultog-d " " -f 1-2outp ut-	
3. Trim the white spaces	8	
echo ' aws <comma nd=""> help ' awk '{gsub(/^ + +\$ Sort is to sort file, records, lists etc:</comma>		
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 do him 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 inp	ut and write into standard	d ostoputseodralsopty arolite.rethietis lussed to redirect logs or data	sed - stre
to a file:		a) copy file from remote host	a) Finc
a) let we have two log files, file	1.log & file2.log a	and wespread) to append peint file of the fire a mood (<	rencenc
<pre>\$ cat file1.log tee -a file2.log</pre>		irpat h>	
b) redirect the command output to a log file		e.g. \$ scp id_rsa.pem rakesh @19 2.1 68.5 6	.1210):/dhe1
<pre>\$ dumax- depth=1 -h sort -hr 2>&1 tee du.log</pre>		b) copy local file to remote host	\$ sed
		<pre>\$ scp -i id_rsa.pem data.txt rakesh @19 2.1</pre>	68c)5 del
		lsof, list open files by processes	\$ sed
		a) list open files by specific user	(chec)
		lsof -u <us ame="" ern=""></us>	
Network related commands		b) find processes running on specific port	
nslookup, Query internet domain name server	netstat, print the netw	ork stats; listening: ports9ete0	
a) find the IP from fqdn	a) print all lis	tening ports	
\$ nslookup google.com	\$ netstat -plun	t	
b) check the fqdn from ip address	b) check if ser	vecuri ficonitig.co, get the publictip of the machine	
\$ nslookup 172.21 7.1 67.174	\$ netstat -plun	t \$ GYPP \$P80nf ig.co	
	c) list stats o	f 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	end stream aditor (cont)	
	sed - stream editor (cont)	
Sed - perform basic transformations on an input stream i.e. a file or a stree pipeline.		
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		
Common sed command line options		
-i : edit in place i.e. sed -i 's/TCP/UDP/' network.log		
-n -n n 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	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 dig	jit from 1 to 9	
\+ : As *, matches any single or multiple instances of chars		
\?: As *, matches any zero or one instances of chars		
<pre>\{i\}: matches exactly isequences 'i is between 0 to 255'</pre>		
\{i,}} : matches more than or equal to i 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:		
<pre>key=echo " <input string=""/>" cut -d " :" -f 1</pre>		
echo " <input \$key:="" 's="" -e="" ^\$key:\s.\$="" g'<="" sed="" string"="" td="" ubantu="" =""/> <td></td>		
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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