

DEVOPS EASY LEARNING / ... / Linux commands

NUMBERS	COMMAND	MEANING
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NUMBER S	COMMAND	MEANING
1	ls ll ls -a, ls -l, ls -ltr ls -la -lh, ls -lh	List directory contents Long list List hidden files
	ssh ssh [username]@server-ip ssh [username]@fqdn ssh [username]@dns ssh [username]@[ser IP] -i [key path]	It use to login into a remove server or it is use to connect to a remote server If connecting using and existing ssh key
2	man	Linux Manual
3	pwd	print name of current/working directory
4	touch	It is use to create a file
5	mkdir mkdir -p	Create a directory create a directory with the parent directory
5	cat nl more less	It is use to view the content of the file
6	clear ctrl + l	It is use to clear Your screen
7	cp cp -r	It is use to copy files and directories It is use to copy directories recursive
	cd cd ~	Move to your home directory Move to your home directory

cd -
cd

Move to the previous directory
Move one step back

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NUMBERS	COMMAND	MEANING
	cd ../../../../	Move n steps back
8	mv	It is use to rename and move files and directories from one location to another
9	exit	It is use to exit out of a Linux server
10	date	It use to print the date and time
11	cal	It use to print the calendar
12	wc wc -l w -c w -w	word count print the number off lines print the number off charactares print the number off words
13	head head -n20 head -n5	Print the first 10 lines of a file by default print the first 20 lines of the file for instance print the first 5 lines of the file for instance
14	tail tail -n20 tail -n5	Print the last 10 lines of a file by default print the last 20 lines of the file for instance print the last 5 lines of the file for instance
15	history history -c	It is use to see all commands that you type so far It is use to clear the history
16	who w	It use to check who is currently login on the server
17	ifconfig ip a curl ifconfig.me	It is use to check the server IP address It is use to check the server IP address It is use to check the cloud server public IP address
18	rm rm -rf rm -rf *	It is use to remove file and empty directory It is use to delete directories recursive It use to delete all files and directories in your present working directory
19	hostname hostname -i	It is use to print the hostname It is use to print the server IP
20	cat /etc/os-release cat /etc/*release cat /etc/rel/	It is use to check the OS distribution

21	uptime	It is use to check how long the server has been up
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NUMBERS	COMMAND	MEANING
	telinit 6	
24	init 0 halt poweroff	It is use to shutdown the server
25	shutdown [OPTION] [TIME] [MESSAGE] shutdown -h +5 "Server is going down for upgrade. Please save your work." shutdown -h + number of minute + [message] shutdown -h +10 "Server is going down for upgrade. Please save your work." shutdown -r +5 "Server will restart in 5 minutes. Please save your work."	It is use to schedule server reboot or shutdown -r = restart -h = shutdown
26	wall <<<"Hello everyone" OR wall "The system will be restarted in 10 minutes." wall Hello everyone. I hope everything is okay. See you all tomorrow. good night! ctrl + d to send	It is use to send a broadcast message to everyone that is currently connected on the server
27	uname uname -a uname -r	print system information It is use to check the kernel version with more information It is use to check the kernel version
28	/etc/passwd /etc/shadow cat /etc/group	It content all user accounts on the server It content all user passwords hash on the server It content all groups
29	useradd	Add a new user account
30	passwd passwd -e passwd -S	Assign a password to a user account Expire a user account Check if a user account is locked
31	chage -l [username] chage -l john	Check if a user password is expired or not
32	userdel userdel -r	Delete a user and keep his home directory Delete a user with his home his home directory

33	groupadd	Add a new group
	groupadd finance; groupadd HR; groupadd manager	Add multiple groups at once

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NUMBERS	COMMAND	MEANING
	usermod -s (usermod -s /sbin/nologin [username]) usermod -u usermod -L usermod -U usermod -l (usermod -l + new username + old username) usermod -c (usermod -c "Tom Smith" tom) usermod -s /sbin/nologin -u 1500 -aG manager,finance,sysadmin -c "Tim Smith" tim 📖 Users and Groups Management_	Modify a user default shell Change a user ID Lock a user account Unlock a user account Change the login name Add a full name or comment Example Usefull link
36	visudo username ALL=(ALL:ALL) ALL NOPASSWD:ALL %group_name ALL=(ALL:ALL) ALL NOPASSWD:ALL username ALL=(ALL:ALL) ALL %group_name ALL=(ALL:ALL) ALL	It is use to mdify a sudoers file in Linux (sud) This user will run all commands as root without a sudo password All users in this group will run all commands as root without a sudo password This user will run all commands as root without a sudo password All users in this group will run all commands as root with a sudo password
37	(pipe)	Take the output of command and send it as input to another command
38	vim q! esc wq! i or o w u yy p shift+v	Test editor for Linux Quit without saving Move to command line mode Write and quit Move to insert mode Write Undo Copy a line Paste Move to visual mode
39	nproc	Check CPU
40	echo	Display test on the screen or terminal
41	ps -aux	Check all running processes

	top	
43	ifconfig	Get IP address

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NUMBERS	COMMAND	MEANING
44	lsblk	Check the HDD
45	kill kill -9 kill -15	Kill a running process Kill the parent and the children processes at once Kill the children processes before killing the process (soft kill)
46	scp	Copy files and directories form one server to another
	scp [username]@[server IP address]:[romte path] [destination path] scp tia@52.91.239.56:/tmp/script.txt /home/tia/Download/script.txt scp tia@52.91.239.56:/tmp/script.txt .	Copy a file from a remote server
	scp [username]@[server IP address]:[romte path] [destination path] scp -r tia@52.91.239.56:/tmp/devops /home/tia/Download/devops-course scp -r tia@52.91.239.56:/tmp/devops .	Copy a directory from a remote server
	scp [username]@[server IP address]:[romte path] [destination path] scp -r tia@52.91.239.56:/tmp/* /home/tia/Download/devops-course scp -r tia@52.91.239.56:/tmp/* .	Copy all directories and files from a remote server
	scp [file name] [username]@[server IP address]:[destination path][file name] scp ~/Download/test.txt tia@52.91.239.56:/tmp/test.txt scp test.txt tia@52.91.239.56:/tmp/test.txt	Copy a file from local to a remote server
	scp -r [directory name] [username]@[server IP address]:[destination path][directory name] scp -r ~/Download/devops-course tia@52.91.239.56:/tmp/devops scp -r devops-course tia@52.91.239.56:/tmp/devops	Copy a directory from local to a remote server
47	tar tar -tvf logs_archive.tar.gz tar -xzvf logs_archive.tar.gz Linux tar Command – How to Compress Files in Linux	It is zip or compress files and directories Zip Unzip Usefull link
48	curl wget	It is use to download anything from the internet
49		

50	find	Search files and directories on the server
	find / -name [file name]	

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NUMBERS	COMMAND	MEANING									
51	grep	It is use to search for a particular string or word in the file									
52											
53	apt	It is a package manager for Ubuntu (apt or apt-get)									
	yum	It is a package manager for centos / redhat / amazon linux									
	apt upade or apt-get upade	Update all installed packages for Ubuntu									
	yum upade	Update all installed packages for CentOS, RHL									
	apt -y install tree or apt -y install tree apt -y install git or apt -y install git apt -y install curl or apt -y install curl apt -y install wget or apt -y install wget yum install tree -y yum install git -y yum install curl -y yum install wget -y	Install packages									
54	apt update sudo apt install apache2 -y systemctl status apache2 cd /var/www/html/index.html wget https://linux-devops-course.s3.amazonaws.com/WEB+SIDE+HTML/covid19.zip && unzip covid19.zip && cp -R covid19/* . && rm -rf covid19.zip && rm -rf covid19	Host a simple webside									
	service or systemctl	It is use to check the daemon status									
	service apache2 status	Show the status of a process / service									
	service apache2 stop	Stop the a process / service									
	service apache2 start	Start the a process / service									
service apache2 restart	Restart (stop/start) a process / service										
55	crontab	It is use to schedule task in Linux									
	<div><div><div></div><div></div><div></div><div></div><div></div></div><div>minute (0 - 59) hour (0 - 23) day of month (1 - 31) month (1 - 12) day of week (0 - 6) (Sunday = 0 or 7)</div></div>	<table><tr><th>field</th><th>allowed values</th></tr><tr><td>minute</td><td>0-59</td></tr><tr><td>hour</td><td>0-23</td></tr><tr><td>day of month</td><td>1-31</td></tr><tr><td>month</td><td>1-12 (or names; see example below)</td></tr></table>	field	allowed values	minute	0-59	hour	0-23	day of month	1-31	month
field	allowed values										
minute	0-59										
hour	0-23										
day of month	1-31										
month	1-12 (or names; see example below)										

x x x x x

* * * * * command to be executed

day of
week

0-7 (0 is Sunday, or use
names; see below)

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NUMBERS		COMMAND			MEANING									
		User (u)	Group (g)	Others (o)	<div><div><div>rwXrwXrwX</div><div>User Group Others</div></div><div><div>rwX</div><div>Read Write Execute</div></div></div> <div><div><div>-rwxr-x---</div><div>1 root root 2315 Sep 12 14:39 file.txt</div></div><div><div>4 4 0</div><div>2 0 0</div><div>1 1 0</div><div>7 5 0</div></div><div><table><tr><td>Read</td><td>=</td><td>4</td></tr><tr><td>Write</td><td>=</td><td>2</td></tr><tr><td>Execute</td><td>=</td><td>1</td></tr></table></div></div>	Read	=	4	Write	=	2	Execute	=	1
Read	=	4												
Write	=	2												
Execute	=	1												
		<div><div><div>File and Directories Permissions in Linux/Unix</div></div></div>												
57	cut awk				Print a column in the file									
		<div><div><div>AWK, SED, CUT, TR, GREP, SORT, AND PIPE COMMAND</div></div></div>												
78	sed				Insert a content in the file or modify the content of the file									
		<div><div><div>AWK, SED, CUT, TR, GREP, SORT, AND PIPE COMMAND</div></div></div>												
59														
60														

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