Commonly Asked Linux Commands For Interviews

1. **echo:** Prints text to the console.
echo "Hello, world!"
2. **read:** Reads input from the user.
read -p "Enter your name: " name echo "Hello, \$name"
3. **if/else:** Checks a condition and executes different code based on whether the condition is true or false.
if [[\$num -gt 10]] then
echo "The number is greater than 10"
else
echo "The number is less than or equal to 10"
fi

4. **for loop:** Repeats a block of code for a specified number of times.







```
for (( i=1; i<=10; i++ ))

do

echo $i

done
```

5. **while loop:** Repeats a block of code while a condition is true.

```
i=1
while (( i<=10 ))
do
```

echo \$i

i=\$((i+1))

done

6. **case statement:** Executes different code based on the value of a variable.

```
case $fruit in
```

```
apple)
```

echo "It's an apple"

;;

banana)

echo "It's a banana"







```
;;
  *)
    echo "It's not an apple or a banana"
esac
7. **function:** A block of code that can be called multiple times from within a
script.
function add_numbers {
  sum = ((num1 + num2))
  echo "The sum of $num1 and $num2 is $sum"
}
num1=5
num2=10
add_numbers
8. **grep:** Searches for a pattern in a file.
grep "example" file.txt
```





9. **sed:** Searches for a pattern and replaces it with another pattern in a file.

The `sed` command (short for "stream editor") is a powerful text-processing tool available in Linux and other Unix-like operating systems. It is used to perform text transformations on an input stream (a file or input from a pipe) and output the result to the standard output.

The basic syntax of `sed` command is as follows:	
sed OPTIONS [SCRIPT] [INPUTFILE]	

Here, `OPTIONS` are the command line options that modify the behavior of the `sed` command. `SCRIPT` is the set of commands that `sed` will execute on the input file, and `INPUTFILE` is the name of the file on which `sed` will operate. If no input file is specified, `sed` will read input from the standard input (typically the keyboard).

Some common uses of the 'sed' command include:

- Substituting one string for another in a file or stream of input.
- Selecting and printing specific lines from a file.
- Deleting lines from a file.
- Performing complex text transformations using regular expressions.

Here are some examples of `sed` commands in action:

- Substitute the word "apple" with "orange" in a file called `fruits.txt`:







sed 's/apple/orange/g' fruits.txt	
- Delete all lines that contain the word "banana" in a file called `fruits.txt`:	
sed '/banana/d' fruits.txt	
- Print only the first 10 lines of a file called `sample.txt`:	
sed -n '1,10p' sample.txt	

These are just a few examples of the many uses of `sed` command in Linux. It is a powerful tool for text processing and is widely used by system administrators and programmers.

10. **awk:** Processes text files and generates reports.

The 'awk' command is a powerful text-processing tool that is available in most Unix-based operating systems, including Linux. It is used for processing and manipulating text files, and it supports pattern scanning and processing.





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The basic syntax of the 'awk' command is as follows:	
awk 'pattern { action }' file	
Here, `pattern` specifies a regular expression or a pattern to search for in the input file, and `action` is a set of commands to be executed when the pattern is matched. `file` is the input file that `awk` will process. If no input file is specified, `awk` will read input from the standard input (usually the keyboard).	
Some common uses of the `awk` command include:	
- Extracting specific fields or columns from a file.	
- Searching for specific patterns or regular expressions in a file.	
- Performing mathematical or string operations on the input data.	
- Filtering or selecting specific lines from a file.	
Here are some examples of `awk` commands in action:	
- Print the first column of a file called `data.txt`:	





awk '/error/ {print}' log.txt
- Calculate the sum of the second column of a file called `sales.txt`:
awk '{sum+=\$2} END {print sum}' sales.txt
These are just a few examples of the many uses of `awk` command in Linux

ell scripting. It is a versatile tool for text processing and is widely used by system administrators and programmers.

11. **cut:** Extracts specific columns from a file.

cut -d"," -f1,3 file.txt

12. **sort:** Sorts lines of text in a file.

The 'sort' command in Linux is a powerful tool for sorting text files, either in ascending or descending order, based on specified fields or columns.







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The basic syntax of the `sort` command is as follows:
sort [OPTIONS] FILE
Here, `OPTIONS` are the command-line options that modify the behavior of the `sort` command. `FILE` is the name of the file that `sort` will process. If no input file is specified, `sort` will read input from the standard input (usually the keyboard).
Some common uses of the `sort` command include:
- Sorting lines in a file in alphabetical or numerical order.
- Sorting specific fields or columns in a file.
- Sorting a file in reverse order.
Here are some examples of `sort` commands in action:
- Sort a file called `names.txt` in alphabetical order:
sort names.txt







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sort -r -n -k 3 sales.txt	
- Sort a file called `data.txt` based on the first field, and then the second field:	
sort -k 1,1 -k 2,2 data.txt	
These are just a few examples of the many uses of `sort` command in Linux shell scripting. It is a versatile tool for sorting text files and is widely used by system administrators and programmers.	
13. **uniq:** Removes duplicate lines from a sorted file.	
uniq file.txt	
14. **wc:** Counts the number of lines, words, and characters in a file.	
wc file.txt	







15. **tee:** Reads input from standard input and writes it to both standard output and one or more files.	
echo "Hello, world!" tee file.txt	

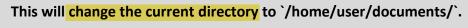






Major Commands

1. 'Is': This command is used to list the contents of a directory in Linux. It is the most	
frequently used command and can be used to display files, directories, and other	
information about them. Here is an example:	
ls .	
This will display a list of all the files and directories in the current directory.	
and the same and t	
2. `pwd`: This command is used to display the current working directory in Linux. Here is	
an example:	1
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pwd	
	
This will display the current working directory, for example: `/home/user/documents/`.	
3. `cd`: This command is used to navigate through directories in Linux. You can use it to	
change the current directory to a specific directory. Here is an example:	
ad the area from a total and a surre and a total	
cd /home/user/documents/	















. `rm`: This command is used to delete files or directories in Linux. Here are a couple of examples:	
rm file.txt	
This will delete the file `file.txt`.	
rm -r directory/	
This will delete the directory 'directory/' and all its contents.	
. `touch`: This command is used to create a new, empty file in Linux. Here is an example:	
touch new_file.txt	
This will create a new, empty file called `new_file.txt`.	

9. `In`: This command is used to create a symbolic link or shortcut to another file or directory. Here is an example:







In -s /path/to/source/file /path/to/link	
This will create a symbolic link called `link` to the file `file` located at `/path/to/source/`.	
10. `cat`: This command is used to display the contents of a file on the terminal. Here is an example:	
cat file.txt	
This will display the contents of `file.txt` on the terminal.	1
3. `clear`: This command is used to clear the terminal display. Here is an example:	
clear	
This will <mark>clear the terminal display</mark> .	
4. `echo`: This command is used to print any text that follows the command on the terminal. Here is an example:	
echo "Hello, World!"	







texts or files. Here is an example:	
less file.txt	
This will display the contents of `file.txt` in a paged output on the terminal, allowing the	
user to navigate and search through the file.	
6. 'man': This command is used to access manual pages for all Linux commands. Here is an example:	
man Is	
This will display the manual page for the `ls` command, providing information on how to	
use it and its various options.	
7. `uname`: This command is used to get basic information about the operating system.	
Here is an example:	
uname -a	







This will display information about the system architecture, kernel version, and other details.

8. `whoami`: This command is used to display the current active username on the terminal. Here is an example:	
whoami	
This will display the active username on the terminal.	
Sure, here are explanations and examples for each of the commands you requested:	1
1. tar. : This command is used to extract and compress files in Linux. Here are a couple of examples:	
tar -xvf archive.tar	
This will extract the contents of the `archive.tar` file.	
tar -cvf archive.tar file1.txt file2.txt	

This will create a new archive called `archive.tar` that contains `file1.txt` and `file2.txt`.





2. 'grep': This command is used to search for a string within an output. Here is an	
example:	
grep "hello" file.txt	
This will search for the string "hello" within `file.txt` and return all lines that contain that	
string.	
3. `head`: This command is used to return the specified number of lines from the top of a file. Here is an example:	
head -n 10 file.txt	17
This will return the first 10 lines of `file.txt`.	
4. `tail`: This command is used to return the specified number of lines from the bottom of a file. Here is an example:	
tail -n 5 file.txt	
This will return the last 5 lines of `file.txt`.	

5. 'diff': This command is used to find the difference between two files. Here is an example:







diff file1.txt file2.txt
This will show the differences between `file1.txt` and `file2.txt`.
6. 'cmp': This command is used to check if two files are identical. Here is an example:
cmp file1.txt file2.txt
This will compare `file1.txt` and `file2.txt` and report whether they are identical or not.
7. `comm`: This command is used to combine the functionality of `diff` and `cmp`. Here is an example:
comm file1.txt file2.txt
This will compare `file1.txt` and `file2.txt` and show the lines that are common to both files, as well as the lines that are unique to each file.

1. `sort`: This command is used to sort the content of a file while outputting. Here is an example:

Sure, here are explanations and examples for each of the commands you requested:











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This will outrast the contents of `archive vin` into the current directors	
This will extract the contents of `archive.zip` into the current directory.	
5. `ssh`: This command is used to establish a secure shell connection in Linux. Here is an example:	
ssh user@server.com	
This will establish a secure shell connection to the server at `server.com` using the `user` account.	
6. `service`: This command is used to start and stop services in Linux. Here is an example:	
service nginx start	
This will start the nginx web server.	
7. `ps`: This command is used to display active processes in Linux. Here is an example:	
ps aux	

This will display a list of all active processes on the system.







8. 'kill' and 'killall': These commands are used to kill active processes by process ID or name. Here are a couple of examples:	
kill 1234	
This will kill the process with ID `1234`.	
killall nginx	
This will kill all processes with the name `nginx`.	
Sure, here are explanations and examples for each of the commands you requested:	
1. `df`: This command is used to display disk filesystem information in Linux. Here is an example:	
df -h	
This will display the filesystem information in a human-readable format.	

2. `mount`: This command is used to mount file systems in Linux. Here is an example:







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mount /dev/sdb1 /mnt/usb	
This will mount the file system located at `/dev/sdb1` to the directory `/mnt/usb`.	
3. `chmod`: This command is used to change file permissions in Linux. Here is an example:	
chmod 755 file.txt	
This will change the permissions of `file.txt` so that the owner can read, write, and execute the file, while other users can only read and execute it.	
4. 'chown': This command is used for granting ownership of files or folders in Linux. Here is an example:	
chown user:group file.txt	
This will change the ownership of `file.txt` to the user `user` and the group `group`.	
5. `ifconfig`: This command is used to display network interfaces and IP addresses in Linux. Here is an example:	
ifconfig	000







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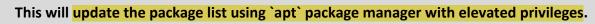




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1. `iptables`: This command is used as a base firewall for all other firewall utilities to	
interface with in Linux. Here is an example:	
iptables -A INPUT -p tcpdport 80 -j ACCEPT	
This will allow incoming TCP traffic on port `80`.	
This will allow meetining for traine on port 50.	
2. `apt`, `pacman`, `yum`, `rpm`: These are package managers that are used to install and	
manage software packages on Linux. The specific package manager you use depends on	2
your Linux distribution. Here is an example using `apt`:	
sudo apt install firefox	
This will install the Firefox web browser using the `apt` package manager.	
3. `sudo`: This command is used to escalate privileges in Linux. Here is an example:	
sudo apt update	







4. 'cal': This command is used to view a command-line calendar in Linux. Here is an example:	
cal	
	
This wil <mark>l display the calendar for the current month</mark> .	
5. 'alias': This command is used to create custom shortcuts for your regularly used commands in Linux. Here is an example:	
alias II='Is -alF'	2
This will create an alias `ll` for the `ls -alF` command, which will display the detailed list of files and directories.	
6. 'dd': This command is majorly used for creating bootable USB sticks in Linux. Here is an example:	
sudo dd if=ubuntu.iso of=/dev/sdb bs=4M status=progress	

This will write the `ubuntu.iso` image to the USB stick located at `/dev/sdb` with a block



size of '4M'.



7. 'whereis': This command is used to locate the binary, source, and manual pages for a	
command in Linux. Here is an example:	
whereis Is	
This will display the binary, source, and manual pages for the `ls` command.	
8. 'whatis': This command is used to find what a command is used for in Linux. Here is an example:	
example:	
whatis Is	26
wildus is	
This will display a brief description of what the `ls` command is used for.	
This will display a brief description of what the 15 command is used for.	
9. `top`: This command is used to view active processes live with their system usage in	
Linux. Here is an example:	
top	

This will display the list of active processes along with their CPU, memory, and other system usage statistics.

10. `useradd` and `usermod`: These commands are used to add new users or change existing users' data in Linux. Here is an example:







sudo useradd -m john
This will create a new user named 'john' with a home directory.
This will create a new user named John With a nome directory.
1. 'passwd': This command is used to create or update passwords for existing users in
inux. Here is an example:
sudo passwd john

This will set a new password for the user 'john'.





