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# **The Linux Command Line**

## Managing packages

```
apt update
apt list
apt install nano
apt remove nano
```

## Navigating the file system

```
pwd # to print the working directory

ls # to list the files and directories

ls -l # to print a long list

cd / # to go to the root directory

cd bin # to go to the bin directory

cd .. # to go one level up

cd ~ # to go to the home directory
```

## Manipulating files and directories

```
mkdir test # to create the test directory

mv test docker # to rename a directory

touch file.txt # to create file.txt

mv file.txt hello.txt # to rename a file

rm hello.txt # to remove a file

rm -r docker # to recursively remove a directory
```

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### Editing and viewing files

```
nano file.txt # to edit file.txt

cat file.txt # to view file.txt

less file.txt # to view with scrolling capabilities

head file.txt # to view the first 10 lines

head -n 5 file.txt # to view the first 5 lines

tail file.txt # to view the last 10 lines

tail -n 5 file.txt # to view the last 5 lines
```

## Searching for text

```
grep hello file.txt  # to search for hello in file.txt
grep -i hello file.txt  # case-insensitive search
grep -i hello file*.txt  # to search in files with a pattern
grep -i -r hello .  # to search in the current directory
```

# Finding files and directories

```
find # to list all files and directories

find -type d # to list directories only

find -type f # to list files only

find -name "f*" # to filter by name using a pattern
```

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## Managing environment variables

```
printenv # to list all variables and their value

printenv PATH # to view the value of PATH

echo $PATH # to view the value of PATH

export name=bob # to set a variable in the current session
```

## Managing processes

```
ps # to list the running processes
kill 37 # to kill the process with ID 37
```

## Managing users and groups

```
useradd -m john  # to create a user with a home directory
adduser john  # to add a user interactively
usermod  # to modify a user
userdel  # to delete a user

groupadd devs  # to create a group
groups john  # to view the groups for john
groupmod  # to modify a group
groupdel  # to delete a group
```

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## File permissions