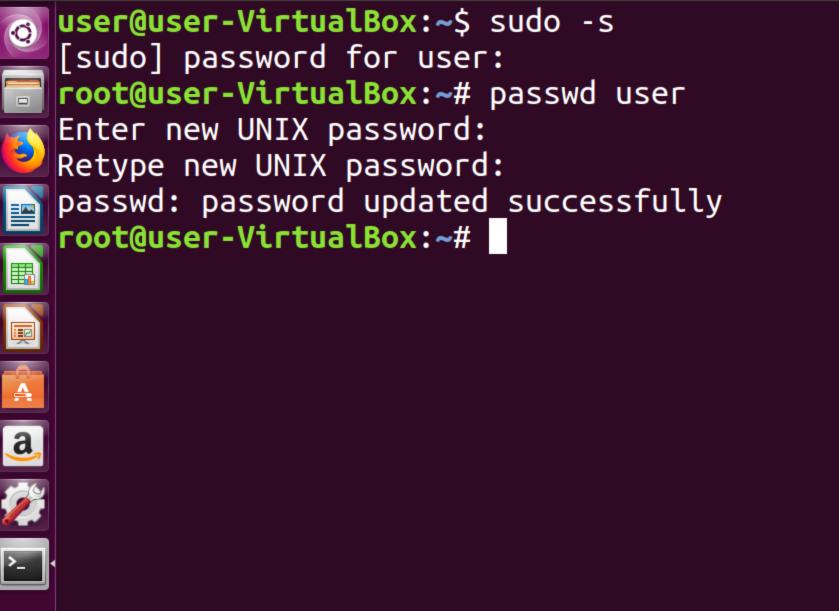
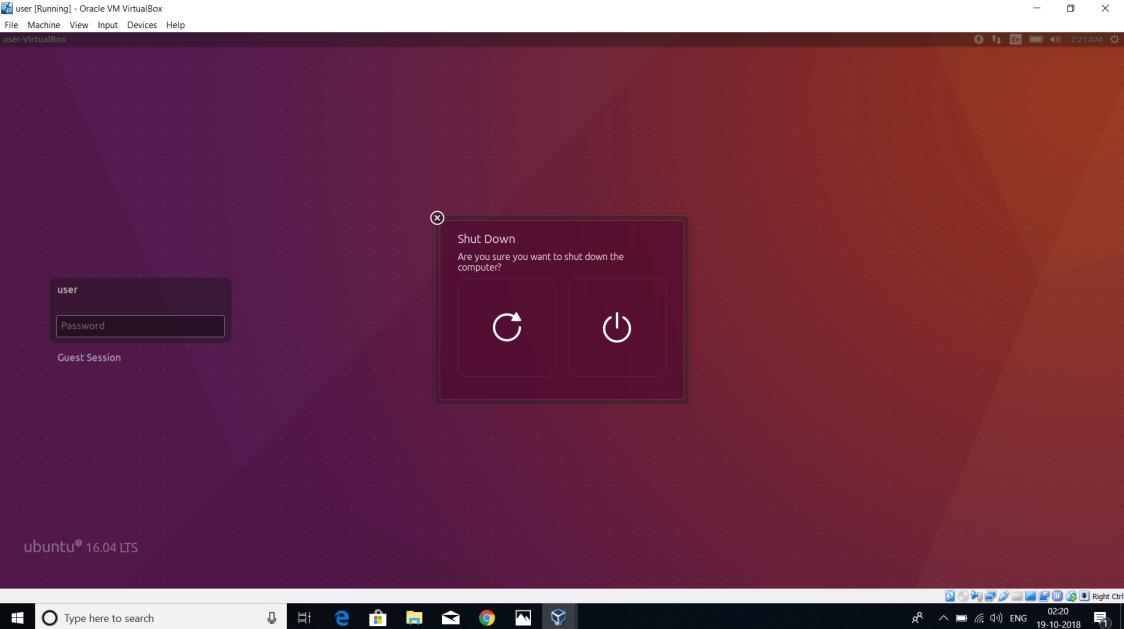
IF YOU FORGET PASSWORD HOW WILL YOU RESET IT?





GNU GRUB version 2.02~beta2-9ubuntu1

*Ubuntu Advanced options for Ubuntu Memory test (memtest86+) Memory test (memtest86+, serial console 115200)

Use the ↑ and ↓ keys to select which entry is highlighted. Press enter to boot the selected OS, `e' to edit the commands before booting or `c' for a command-line.



GNU GRUB version 2.02~beta2-9ubuntu1

*Advanced options for Ubuntu

Memory test (memtest86+) Memory test (memtest86+, serial console 115200)

Use the ↑ and ↓ keys to select which entry is highlighted. Press enter to boot the selected OS, `e' to edit the commands before booting or `c' for a command-line.

GNU GRUB version 2.02~beta2-9ubuntu1

Ubuntu,	with	Linux	3.13.0)-32-ge	eneric		
∗Ubuntu,	with	Linux	3.13.0)-32-ge	eneric	(recovery	mode)

Use the ↑ and ↓ keys to select which entry is highlighted. Press enter to boot the selected OS, `e' to edit the commands before booting or `c' for a command-line. ESC to return previous menu.

Recovery Menu (filesystem state: read-only)

resume	Resume normal boot
clean	Try to make free space
dpkg	Repair broken packages
failsafeX	Run in failsafe graphic mode
fsck	Check all file systems
grub	Update grub bootloader
network	Enable networking
root	Drop to root shell prompt
system-summary	System summary



root@programmingknowledge-VirtualBox:~# mount -n -o remount,rw / root@programmingknowledge-VirtualBox:~# passwd programmingknowledge Enter new UNIX password: Retupe new UNIX password: passwd: password updated successfully

WRITE A COMMAND TO FIND A FILE WITH PARTICULAR EXTENSION

AND CONTAINS PARTICULAR WORD (STRING) IN THE FILE.

user@user-VirtualBox:~\$ cat puns cat: puns: No such file or directory user@user-VirtualBox:~\$ cat > puns THIS IS THE FIRST LINE this is the second Line and this is the third line user@user-VirtualBox:~\$ grep line puns and this is the third line user@user-VirtualBox:~\$ grep-i line puns grep-i: command not found user@user-VirtualBox:~\$ grep -i line puns THIS IS THE FIRST LINE this is the second Line and this is the third line user@user-VirtualBox:~\$ grep -n line puns 3:and this is the third line user@user-VirtualBox:~\$ grep -in line puns 1:THIS IS THE FIRST LINE 2:this is the second Line 3:and this is the third line user@user-VirtualBox:~\$

CREATE A DIRECTORY AND MOVE IN THE DIRECTORY.

CREATE ANOTHER DIRECTORY INSIDE THIS DIRECTORY

AND MOVE IN IT WRITE A SINGLE COMMAND TO COME

OUT IN THE ORIGINAL DIRECTORY.

```
🚫 🖨 🗊 user@user-VirtualBox: ~
user@user-VirtualBox:~$ mkdir puneet
user@user-VirtualBox:~$ cd puneet
user@user-VirtualBox:~/puneet$ mkdir
mkdir: missing operand
Try 'mkdir --help' for more information.
user@user-VirtualBox:~/puneet$ mkdir pun
user@user-VirtualBox:~/puneet$ cd pun
user@user-VirtualBox:~/puneet/pun$ cd ../..
user@user-VirtualBox:~$
```

COMMANDS USED FOR FINDING MEMORY USAGE.

user@use	r-VirtualBox:~	\$ free				
	total	used	free	shared	buff/cache	available
Mem:	2041816	686496	584496	11236	770824	1169188
Swap:	998396	0	998396			
user@use	r-VirtualBox:~	\$ man free				

```
NAME
      free - Display amount of free and used memory in the system
SYNOPSIS
      free [options]
DESCRIPTION
      free displays the total amount of free and used physical and swap memory in the
      system, as well as the buffers and caches used by the kernel. The information is
      gathered by parsing /proc/meminfo. The displayed columns are:
      total Total installed memory (MemTotal and SwapTotal in /proc/meminfo)
             Used memory (calculated as total - free - buffers - cache)
      used
             Unused memory (MemFree and SwapFree in /proc/meminfo)
      free
      shared Memory used (mostly) by tmpfs (Shmem in /proc/meminfo, available on kernels
             2.6.32, displayed as zero if not available)
      buffers
Manual page free(1) line 1 (press h for help or q to quit)
```

User Commands

FREE(1)

FREE(1)

WHY LINUX IS MORE SECURED THAN OTHER OPERATING SYSTEMS?

Why Linux is more secure than other operating systems?

ANS:-

Linux is an open operating system, the codes which can be read by everyone, but still accept more secure in comparison with other OS.Linux is growing rapidly in the market because there are more devices based on Linux, and that is why more people trust Linux.

In the operating system such as Windows, users have full admin access to the accounts of software. When the virus strikes in this system and then within few seconds it corrupts the whole system. In short, all the files are in danger due to the open access, but in the Linux, very low access is given to the users. Thus the viruses can't attack the whole system and they only attack few files, and other system works without any issue.

A Proper log is established in the Linux of the timing and it can be viewed later on easily. If someone tries to enter safe system files, these system gaps can be viewed by the system administrator. Also, the disk to fail attempts are presented to read for later on.

3.

The number of users in the Linux operating system is lesser than the iOS or Windows user. Thus fewer people are using Linux system makes it more secure as compared to the overly crowded operating system Windows.

File Edit Format View Help

4.

Windows and other operating systems are more vulnerabilities to the type of social engineering Ltd compared to Linux. Amateur users can easily expose to the viruses in other OS by opening one email. But this is not the case in the Linux and user needs full execution right before opening any new attachment. Thus web developers and testers prefer this system as it saves them from the vulnerabilities.

A high tech security of IPtables is used by the Linux to enhance the security circle of the system. This firewall that allows you to create a more secure environment for the execution of any command or access the network.

Linux system operates in the different environment such as such as Linux Mint, Debian, Ubuntu, Gentoo, Arch, and many others. The division and segmented working environment protect from the attack of the virus. On the other hand, Windows isn't much divided operating system and thus it is more exposed to the threats.

Well, saying that the Linux is 100% secure operating system is impossible as no OS is fully secured. To make the systems fully secure further software's are required, but still, Linux has few features which make it more secure than the other operating software.

WHICH COMMAND MUST BE USED TO SEARCH THE COMMAND WITHOUT KNOWING ITS EXACT NAME?

ANSWER

FOR THIS PURPOSE WE CAN MAKE USE OF "apropos" COMMAND

