OS Lab 2

1. **Create a file drol.txt which has information related to all the read only files in the directory?**

Prog1.sh

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#!/bin/bash

touch drol.txt

find -type f -perm 444 > drol.txt

cat drol.txt

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1. **Create a process in background? Bring that into foreground and kill that process?**

Interactive shell

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processname=”nautilus”

$processname &fg

kill $(pgrep $processname)

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1. **Find number of CPUs running in the system. Create a file prodetails.txt which store CPU usage information about all the process running in the system.**

Prog3.sh

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#!/bin/bash

cat /proc/cpuinfo | grep processor | wc -l

Touch prodetails.txt

ps -eo pid,cmd,%cpu > prodetails.txt

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1. **There is a file Unix\_Test.txt which contains words Windows, replace all occurrences of Windows to WINDOWS?**

sed -i -e 's/windows/WINDOWS/g' Unix\_Test.txt

<https://askubuntu.com/questions/20414/find-and-replace-text-within-a-file-using-commands>

1. **You have a tab separated file which contains Name, Address and Phone Number, list down all Phone Number without their name and Addresses?**

cut -f3 < inputfile.txt

<https://stackoverflow.com/questions/15138782/how-to-extract-the-first-column-from-a-file-with-tab-separated-columns>

1. **Your application home directory is full? Find which directory is taking how much space?**

du -a /home | sort -n -r

<https://www.cloudbooklet.com/find-directory-size-in-ubuntu-debian/>

1. **Find which processes are using a particular file?**-------------------

lsof /dev/null #The file here is /dev/null

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1. **Find whether your system is 32 bit or 64 bit? How do you see command line history?**

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#!/bin/bash

uname -m; #finds whether system is 32 bit or 64 bit

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#!/bin/bash

history n; #lists last ‘n’ commands from the history

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1. **Check if a remote host 172.27.16.154 is alive or not. Find which hosts are connecting to your host on a particular port 10123?**

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#!/bin/bash

if ping -c 1 -W 1 172.27.16.154 ; then

echo "172.27.16.154 is alive";

else

echo "172.27.16.154 is not alive";

fi

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