Solect to mirro peration == "MIRROR_X": irror_mod.use_x = True mirror_mod.use_y = False irror_mod.use_z = False _operation == "MIRROR_Y" irror_mod.use_x = False irror_mod.use_x = fue irror_mod.use_z = operation == "MIR irror_mod.use_x = false selection at the end -add ob.select= 1 er_ob.select=1 ntext.scene.objects.acPRESENTATION er_ob.select=1 "Selected" + str(modifie irror ob.select = 0 bpy.context.selected_ob sta.objects[one.name].se Int("please select exaJAMES GARLIE **DEVRY UNIVERSITY:** OPERATOR CLASS FEBRUARY 2022 vpes.Operator): X mirror to the selected ject.mirror_mirror_x" Pror X"

is not

Learned about the Linux operating system

Learned how to create user accounts

Learned how to set up network adaptors and pick them up and <u>down</u>

INTRODUCTION

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Constituted of the second states

mirror_mod.mirror_object our object to mirror peration == "MIRROR_X": sirror_mod.use_x = True irror_mod.use_y = False irror_mod.use_z = False **Operation** == "MIRROR y" irror_mod.use_x = irror_mod.use_y = alse irror_mod.use_z = False Created directories or "MIRROR_Z" alse rror_mod.use y folders and files mod use z alse rue removed-1 In ob.select=1 LINUX FILE SYSTEM Copied and removed directories or folders rror ob.select and files bpy.context.selected_ob ata.objects[one.name].se Located directory files OPERATOR CLASS wpes.Operator): X mirror to the select ject.mirror_mirror_x" Pror X"

irror_mod.use_x = I.What is the pwd command an acronym for? What about the cd irror mod.use command? irror mod.use z

Print Working Directory alse "MIRROR_Z"

2. Explain the differences between a relative path and an absolute/full path in Linux.

ob.select= 1 An "Absolute Path" specifies the location from the "Root Directory" whereas a "Relative Path" is related to the current directory; however, using a relative pathway is only feesable when moving around the same directory. selec

References:

OPERATOR CLASS

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sirror_mod.mirror_objer

our object to mirro

eration == "MIRROR_X":

I. Lessons in DeVry Modules

2. https://www.geeksforgeeks.org.or) mirror to the selecte ject.mirror_mirror_x Pror X

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x mirror to the select ject.mirror_mirror_x" ror X"



ypes.Operator): X mirror to the select ject.mirror_mirror_x" ror X"



x mirror to the select ject.mirror_mirror_x" ror X"



LTTOT_mod.mirror_object of object to mirro I.What are the file "MIRROR X" : permissions of the script? ror mod.use rw-rw-r mod

2. What's the name of the rue alse user-defined variable in the ROR Z" alse rror mod.use y script? text alse rror mod.use z =

character is used in the script? What does it do? > redirects output and appends it to a file int("please select exaction

References:

OPERATOR CLASS

I. Week 3 Project Video

X mirror to the select 2. Week 3 Project expessoperator): ject.mirror_mirror_x" Instructions FOR X

3. Which redirection meta-**I**rue

```
ecno "Ioday's to-do-list -- $text" >> MyIoDoLists
echo "" >> MyToDoLists
```

mirror_mod.mirror_object

our object to mirror

```
student@ubuntuvm:~$ ls -l todolist
a-rw-rw-r-- 1 student student 190 Jan 21 13:17 todolist
student@ubuntuvm:~$ bash todolist
Enter today's to-do-list (Press ENTER to complete):
1. family. 2. work. 3. school.
You entered: 1. family. 2. work. 3. school.
student@ubuntuvm:~$ bash todolist
Enter today's to-do-list (Press ENTER to complete):
1. school. 2. family. 3. work.
You entered: 1. school. 2. family. 3. work.
student@ubuntuvm:~$ cat MyToDoLists
Fri 21 Jan 2022 01:21:36 PM EST
Today's to-do-list -- 1. family. 2. work. 3. school.
```

Fri 21 Jan 2022 01:23:51 PM FST

```
mirror_mod.mirror_object
                      tor object to mirror
                   peration == "MIRROR_X":
 student@ubuntuvm:~$ bash todolist
 Enter today's to-do-list (Press ENTER to complete):
 nano todolist^C
 student@ubuntuvm:~$ nano todolist
 student@ubuntuvm:~$ cat todolist
<sub>)a</sub>#!/bin/bash
 echo "Enter today's to-do-list (Press ENTER to complete):"
 read text
 echo "You entered: $text"
 date >> MyToDoLists
 echo "Today's to-do-list -- $text" >> MyToDoLists
 echo "" >> MyToDoLists
 student@ubuntuvm:~$ chmod 755 todolist
 student@ubuntuvm:~$ ls -l todolist
```

-rwxr-xr-x 1 student student 202 Jan 21 13:44 todolist
student@ubuntuvm:~\$./todolist

COL MILLIN



J.

student@ubuntuvm: ~

You entered: 1. work. 2. family. 3. school. student@ubuntuvm:~\$ student@ubuntuvm:~\$ cd ~ student@ubuntuvm:~\$ pwd /home/student student@ubuntuvm:~\$ todolist

Command 'todolist' not found, but can be installed with:

sudo snap install todolist

student@ubuntuvm:~\$ echo \$PATH
/usr/local/sbin:/usr/local/bin:/usr/sbin:/usr/bin:/sbin:/bin:/usr/games:/usr/lo
al/games:/snap/bin
student@ubuntuvm:~\$ PATH=\$PATH:/home/student
student@ubuntuvm:~\$ echo \$PATH
/usr/local/sbin:/usr/local/bin:/usr/sbin:/usr/bin:/sbin:/bin:/usr/games:/usr/lo
al/games:/snap/bin:/home/student
student@ubuntuvm:~\$
student@ubuntuvm:~\$
todolist
Enter today's to-do-list (Press ENTER to complete):
1. school. 2. work. 3. family.
You entered: 1. school. 2. work. 3. family.
student@ubuntuvm:~\$

MAKETHE PATH VARIABLE PERMANENT

RUNNING THE TODOLIST SCRIPT BEFORE AND AFTER MAKING THE PATH VARIABLE PERMANENT A SCREENSHOT OF THE TERMINAL WINDOW

x mirror to the select ject.mirror_mirror_x" ror X"

Q ≡



. What does the –*m* option in the useradd command do? Answer here: It creates a user account for Mary. And/or "Creates the home Directory."

2. What does the -3 option in the tail command do? Answer here: Shows the last three lines. tail means "end", and -3 means last three lines It confirms the new account for Mary and that we

both your account and Mary's account are no and a solution members of the "students" group.

objects.active 3. Which line of the /etc/group file lists remove the members of the "students" group? Copy it here. Answer here: The last line: int("please select exact)

OPERATOR CLASSES --

ject.mirror_mirror_x

~ Y"

mirror to the select

References:

I. Professor Bird

2. Module 4 Project Guide

ADD USERS AND GROUPS IN CL

ration == "MIRROR_X": rror mod.use > ND GROUP SETTINGS TEST U tror mod.use irror mod.use y

rror_mod.use z = alse These are screenshots of the output rror mod.use v

mirror_mod.mirror_object

our object to mirror

alse

rue







ADD USERS IN GU

A SCREENSHOT OF THE OUTPUT





REMOVE USERS AND GROUPS

A SCREENSHOT OF THE LOG ON PAGE WITH THREE USER ACCOUNTS



mirror_mod.mirror_object on object to mirror peration == "MIRROR_X": sirror_mod.use_x = True irror_mod.use_y = False irror_mod.use_z = False **_operation** == "MIRROR y" irror mod.use_x = Discovered host IP alse rue operation == "MIRROR_Z" configurations or mod-use_x alse alse rror_mod.use_z = rue election at the end NETWORKING Managed network Selected" + str(modifier interfaces rror_ob.select bpy.context.selected_ob sta.objects[one.name].se please select exactle Use of network utilities X mirror to the selecter vpes.Operator): ject.mirror_mirror_x"

Pror X"

DISCOVER HOST IP CONFIGURATIONS

I.What is the IP address of your machine?

192.168.1.104/24 brd 192.168.1.255

SIGTOR BOD

on object

the selecter

10 fect.mirror_mirror_x

2. What is the IP address of its default the end -add gateway? $ob_select=1$ Answer here: 192.168.1.0/24 rnor ob select 3. What is the IP address of its DHCP server?

dhcp-server-identifier 192.168.1.1;

ror

4. What is the IP address of its DNS server? Answer here: nameserver 192.168.1.1 A screenshot of the output

student@ubuntuvm:/var/lib/dhcp\$ ping -c 4 192.168.1.1 PING 192.168.1.1 (192.168.1.1) 56(84) bytes of data. 64 bytes from 192.168.1.1: icmp seq=1 ttl=64 time=0.695 ms 64 bytes from 192.168.1.1: icmp seq=2 ttl=64 time=0.641 ms 64 bytes from 192.168.1.1: icmp_seq=3 ttl=64 time=0.574 ms 64 bytes from 192.168.1.1: icmp seg=4 ttl=64 time=0.717 ms --- 192.168.1.1 ping statistics ---4 packets transmitted, 4 received, 0% packet loss, time 3067ms rtt min/avg/max/mdev = 0.574/0.656/0.717/0.055 ms student@ubuntuvm:/var/lib/dhcp\$

MANAGE NETWORK INTERFACES

1. Which DHCP message is shown in the output of the sudo dhclient -v -r eth0 command? [hint: the message name

is in uppercase.]

Answer here:

ADCAST.MULTICAST> mod.use v

or mod use z =

alse

rue

Sirror Bod

or object to

2. Which four DHCP messages are shown in the output of the sudo dhclient -v eth0 command? [hint: the message names are in uppercase.]

Answer here:

DHCPDISCOVER on eth0 to 255.255.255.255 port 67 interval 3 (xid=0x73fb0928) DHCPOFFER of 192.168.1.105 from 192.168.1.1 DHCPREQUEST for 192.168.1.105 on eth0 to 255.255.255.255 port 67 (xid=0x2809fb73)

DHCPACK of 192.168.1.105 from 192.168.1.1 (xid=0x73fb0928)

References:

OPERATOR CLASS

rject.mirror_mirror_x

ror

(mirror to the select

I. Week 5 Project Manual

2. Week 5 Project Video



student@ubuntuvm:~\$ sudo ifconfig eth0 up student@ubuntuvm:~\$ ifconfig eth0 eth0: flags=4163<UP,BROADCAST,RUNNING,MULTICAST> mtu 1500 inet 192.168.1.104 netmask 255.255.255.0 broadcast 192.168.1.255 inet6 fe80::dc70:6737:b80c:95a6 prefixlen 64 scopeid 0x20<link> ether 00:15:5d:00:04:01 txqueuelen 1000 (Ethernet) RX packets 18594 bytes 1210974 (1.2 MB) RX errors 0 dropped 0 overruns 0 frame 0 TX packets 20369 bytes 1605570 (1.6 MB) TX errors 0 dropped 0 overruns 0 carrier 0 collisions 0

student@ubuntuvm:~\$



ypes.Operator):
 X mirror to the select
 ject.mirror_mirror_x"
 ror X"

LTTOL_mod.mirror_object on object to mirror eration == "MIRROR_X": irror_mod.use_x = True I.What is the default action of the 15 SIGTERM kill signal? irror mod.use v alse Answer here: Kill the highlighted process rue **operation** == "MIRROR Z" rror mod.use x = alse rror mod.use y = alse 2. In the System Monitored use z **I**rue window, click on % CPU to MONITOR LINUX sort the processes by CPU PROCESSES load. Which process shows the highest percentage of CPU ta.objects[one.name].se usage? Answer here: gnome-shell int("please select exactly OPERATOR CLASS References:

X mirror to the selecter

vpes.Operator):

PPOF X"

ject.mirror_mirror_x"

I. Completing the project.

MONITOR USER ACTIVITIES

Issue the sudo accton on command to turn on GNC accounting. Run the sudo updatedb command. Enter lastcomm updatedb to check if the updatedb command was executed before. Remember to turn off GNC accounting (sudo accton off) after mod.use 7 answering the questions. on at the end -add I.What flag value is displayed in the output? ntext.scene.objects.active Answer here: S – means the command was executed by the root (superuser) 2. Why is the name of the user who ran the processes shown as root, not student? Answer here: We put "sudo" in front of the command, which means "superuser do" and caused the root user (superuser) to execute the command for us

the selecter

Reference:

ject.mirror_mirror_x" I. Watched Project Help Video

I GEORINOS

on object

MONITOR NETWORK BAND-WIDTH USAGE

<pre>lror_mod.use_y =</pre>	F	studen	t@ubuntuvm: ~	Q	≡ -	• 😣		
A SCREENSHOT OF	student@ub >	< stud	lent@ub ×	stude	nt@ub	× –		
HEOUTPUTY =	12.5	КЬ	25.0КЬ 🗟 з	37.5Kb	50.0I	Kb62.5Kb	m:~)[=
<pre>election at the e _ob.select= 1 ier_ob.select=1 intext.scene.objec ("Selected" + str() irror_ob.select = bpy.context.sele ata.objects[one.n int("please select - OPERATOR CLASS</pre>	192.168.1.104	=> 192. <=	168.1.1	672b 672b	2.28Kb 1.89Kb	2.58Kb 2.07Kb	time=2.12 ms time=1.61 ms time=0.608 ms time=0.613 ms time=2.68 ms time=2.68 ms time=1.86 ms time=1.86 ms time=1.09 ms time=1.09 ms time=1.627 ms time=0.627 ms time=1.77 ms time=0.550 ms time=1.75 ms time=0.600 ms time=1.72 ms	
x mirror to the iect.mirror_mi	TX: RX: TOTAL:	cum:	144Krates:ak 110KB 255KB	672b69 672b62 1.31Kb3	2.28Кb 1.89Кb 4.17Кb	2.58Кb 2.07Кb 4.65Кb	time=0.638 ms time=1.76 ms time=0.492 ms time=1.82 ms	
ror X"	6	4 bytes 4 bytes	from 192.168. from 192.168.	.1.1: ic .1.1: ic	:mp_seq=1 :mp_seq=1	70 ttl=64 71 ttl=64	time=0.703 ms time=2.10 ms	

mirror_mod.mirror_object of object to mirror peration == "MIRROR_X": sirror_mod.use_x = True sirror_mod.use_y = False irror_mod.use_z = False The network adaptor == "MIRROR Y" was not configured alse rue operation == "MIRROR_Z" correctly rror_mod.use_x = False rror_mod.use_y = False Low resolution monitor rue so needed full-screen to abjects.act CHALLENGES see the menu button in Selected" + str(Ubuntu rror ob.select bpy.context.selected_ob Laptop needed a fullects[one.name].se reset because it wasease select exactly operating slowly operator classes

ypes.Operator):
 X mirror to the select
 ject.mirror_mirror_x"
 ror X"

d_rror_mod_use_x = True irror_mod.use_y = False Several career skills were gained irror mod.use in this project: irror mod.use y alse

mirror_mod.mirror_object

peration == "MIRROR_X":

Tor object to mirror

- Learned how to use the rue operation == "MIRROR_Z" Linux operating system alse
- Learned how to work with alse rue the networking protocols the end -add
- Learned several Linux commands Troubleshooting errors as cted ob situations were presented one name] se
- Analysis Reviewingease select exactly screens and screenshots to LAS understand processes

Select=1 scene.objects.act CAREER SKILS

X mirror to the select wpes.Operator): ject.mirror_mirror_x" Pror X"

mirror_mod.mirror_object TO DOJECT to mirror peration == "MIRROR_X": sirror_mod.use_x = True irror_mod.use_y = False Irror_mod.use_z = False operation == "MIRROR y" rror_mod.use x = Linux is an amazing operating system "MIRROR_Z" rror mod.use x False Many corporations use alse Linux for servers (eg. mail rue servers, web servers) This course provided a select -1 hands-on learning hands-on learning or ob select selected ob opportunity to put into the method of practice the topics covered in the use of Linux CLASS

wpes.Operator): X mirror to the selected ject.mirror_mirror_x" Pror X"