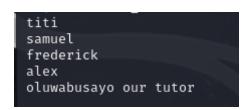
BASIS OF BASH SCRIPT PART 1

In this article, we will show you the basis on how to use the bash script on linux. This script will create files, variables, calculate math functions and also the use of 'IF' statement

SCRIPT OVERVIEW

1.0>Create a text file name named *class_list.txt* with the following format



1.1 RUNNING THR SCRIPT

>Create a script named create users.sh

**>Make the script executable s

sudo chmod +x create_users.sh

>Execute the script

sudo ./create_users.sh class_list.txt

1.2 How to use variables

Use of Variables:

- -To save information for later use
- -To capture the output of a command such as [Is pwd and cat]
- -To search for a file
- -To install and update missing applications

To save information for later

nano ./create_users.sh

```
"!/bin/bash

name="Ibukun Mamora"
tutor="Oluwabusayo"
now=$(date)

echo Hello , i am $name
echo $tutor is my instructor name
echo $now
echo $files
```

Ctrl x to save and then you execute the command using ./create.user.sh

Result after the use of variables

```
-$ ./create_users.sh
Hello , i am Ibukun Mamora
Oluwabusayo is my instructor name
Tue Jul 23 02:47:48 AM EDT 2024
```

1.3 Variables can also be used to capture the output of a command

files=\$(command output)

```
$ cat class_list.txt
titi
samuel
frederick
alex
oluwabusayo our tutor

(kali@ kali)-[~]
$ files=$(cat class_list.txt)

(kali@ kali)-[~]
$ echo $files
titi samuel frederick alex oluwabusayo our tutor
```

1.4 'IF' statements on bashcript

Create a script using command 'nano ./myscript.sh'

```
(kali⊕ kali)-[~]

$ mygmcclass=11

(kali⊕ kali)-[~]

$ echo $mygmcclass

11

(kali⊕ kali)-[~]

$ nano ./myscript.sh
```

if mygmcclass is equal to 11, echo true positive

```
#!/bin/bash

mygmcclass=11

if [ $mygmcclass -eq 11 ]
then
        echo "True Positive."
fi
```

***RESULT AFTER EXECUTION

```
___(kali⊕ kali)-[~]

$ ./myscript.sh

True Positive.
```

If two members are added to {mygmcclass}, we can use the 'else' command

```
mygmcclass=13
if [ $mygmcclass -eq 11 ]
then
    echo "True Positive."
else
    echo "False negative"
fi
```

***RESULT AFTER EXECUTION

```
(kali@kali)-[~]
$ ./myscript.sh
False negative
```

1.5 Bashscript can also be used to search for a file

```
#!/bin/bash

if [ -f ~/ibukun.txt ]
then
    echo "True Positive."
else
    echo "False negative"
fi
```

RESULT AFTER EXECUTION

```
(kali® kali)-[~]
$ ./myscript.sh
False negative

(kali® kali)-[~]
$ touch ibukun.txt

(kali® kali)-[~]
$ ./myscript.sh
True Positive.
```

NO such file as 'ibukun.txt'

I created a file using the touch command 'touch ibukun.txt' and i executed the command again, since we now have the file 'ibukun.txt'.. we should have a 'true positive' feedback

1.6 To install htop using bashcript

```
___(kali⊕ kali)-[~]
_$ which htop
```

The 'which' command shows if the application is available. To install htop

--command line-- nano ./myscript.sh

```
#!/bin/bash
command=/usr/bin/htop

if [ -f $command ]
then
    echo "$command is available, let's run it..."
else
    echo "$command is NOT available, installing it.."
    sudo apt update & sudo apt install -y htop
fi
$command
```

RESULT AFTER EXECUTION

```
0[
                                0.6%] Tasks: 78, 181 thr, 131 kthr; 1 runni
   1[|
                                1.3%] Load average: 0.17 0.16 0.06
   2[
                                0.6%] Uptime: 02:23:11
                                7.0%]
   3[]
 Mem[|||||||||||||||||||659M/1.92G]
                            0K/1024M
 Main I/O
                  PRI
                      NI VIRT
   PID USER
                                  RES
                                        TIME+ Command
 67065 kali
                   20
                        0 1314M
                                 105M 77304 S
                                                     5.4
                                                          0:00.00 xfwm4 --dis
 67066 kali
                   20
                        0 1314M
                                 105M 77304 S
                                                     5.4
                                                          0:00.00 xfwm4 -- dis
                                                          0:00.00 xfwm4 -- dis
 67067 kali
                   20
                                 105M 77304 S
                                                     5.4
                        0 1314M
                                                0.0 5.4
 67079 kali
                   20
                                 105M 77304 S
                                                          0:00.00 xfwm4 -- dis
                        0 1314M
                                 105M 77304 S
                                                0.0 5.4
 67080 kali
                   20
                                                          0:00.00 xfwm4 -- dis
 67081 kali
                        0 1314M
                                 105M 77304 S
                                                0.0 5.4
                                                          0:00.00 xfwm4 -- dis
                   20
 67082 kali
                   20
                        0 1314M
                                 105M 77304 S
                                                     5.4
                                                          0:00.00 xfwm4 -- dis
 67083 kali
                        0 1314M
                                 105M 77304 S
                                                     5.4
                                                          0:00.00 xfwm4 -- dis
                   20
                                 105M 77304 S
                                                          0:00.00 xfwm4 -- dis
 67084 kali
                   20
                                                     5.4
 67085 kali
                   20
                                 105M 77304 S
                                                     5.4
                                                          0:00.00 xfwm4 -- dis
                   20
                                                0.0 5.4
 67086 kali
                        0 1314M
                                 105M 77304 S
                                                          0:00.00 xfwm4 -- dis
 67087 kali
                   39
                       19 1314M
                                 105M 77304 S
                                                0.0 5.4
                                                          0:00.00 xfwm4 -- dis
 67138 kali
                   20
                       0 8308 4736 3200 S
                                                0.0 0.2 0:00.04 /bin/bash
                                                0.0 0.2
 68171 kali
                   20
                        0 6976
                                3328 3072 S
                                                         0:00.00 /bin/bash
F1Help F2Setup F3SearchF4FilterF5Tree F6SortByF7Nice -F8Nice +F9Kill F10Qui
```

htop succesfully installed