Damir Nabiullin - Lab 6

```
#!/hin/hash
declare -A MainMenu=([3]="System information"
[2]="05 components"
[1]="exit")

declare -A SytemInfoSubmenu=([4]="Print kernel"
[3]="Print architecture"
[2]="view logged in users"
[1]="exit")

declare -A OSComponentsSubmenu=([4]="Verify EFI"
[3]="List block devices"
[2]="first boot device"
[1]="exit")

ISEXit=false
 IsExit=false
 while true;
         select TYPE in "${MainMenu[@]}";
do
                  echo
case $TYPE in
                   "System information")
select ACTION in "${SytemInfoSubmenu[@]}";
do
                                 echo
case $ACTION in
"Print kernel")
echo "$(uname -sr)"
break
...
-+ure")
                                   ;;
"Print architecture")
echo "$(uname -m)"
break
                                    | "View logged in users")
| echo "USER | LOGIN@ | WHAT"
| echo "$(w -h | awk -F " " 'BEGIN {OFS = " | "} {print $1,$4,$8}')"
| break
                                    "exit")
echo "Exiting script ..."
break
                 break
;;
"OS components")
select ACTION in "${OSComponentsSubmenu[@]}";
do
echo
case SACTION in
"Verify EFI")
if test -d /sys/firmware/efi; then
echo "EFI enabled";
else
echo "EFI disabled";
                                           ecse echo "EFI disabled";
                                             break
                                   "List block devices")

IFS=$'\n'
for DEVICE in $(lsblk -d -n -l -o NAME,PTTYPE); do

if [[$DEVICE == ""gpt"" ]]; then

IFS=$' OUTPUTS=($DEVICE)

echo "" ${OUTPUTS[@]}"

else

echo "$DEVICE"

fi
done
                                             done
break
                                    ::
"First boot device")

NUMBER-$(efibootmgr -v | grep -oP '(?<=BootOrder:\s)(\d+)')

REGEXP="(?<=BootSNUMBER\*\s)(.*)"

echo $(efibootmgr | grep -oP $REGEXP)

break
                                   "exit")
echo "Exiting script ..."
break
;;
esac
                           break
                   "exit")
echo "Exiting ..."
IsExit=true
                           break
                  ;;
esac
         done
         if [ $IsExit = true ] ; then
fi
done
                    break
```

Damir Nabiullin - Lab 6

```
dale@dale-nitro:~/Documents/SNA/Week 6$ bash assignment.sh
1) System information
2) OS components
3) exit
#? 1
1) Print kernel
2) Print architecture
3) View logged in users
4) exit
#? 1
Linux 5.15.0-48-generic
```

```
1) System information
2) OS components
3) exit
#? 1
1) Print kernel
2) Print architecture
3) View logged in users
4) exit
#? 2
x86_64
```

```
1) System information
2) OS components
3) exit
#? 1
1) Print kernel
2) Print architecture
3) View logged in users
4) exit
#? 3
USER | LOGIN@ | WHAT
dale | 15:48 | /usr/lib/gdm3/gdm-x-session
```

```
1) System information
2) OS components
3) exit
#? 2
1) Verify EFI
2) List block devices
3) First boot device
4) exit
#? 1
EFI enabled
```

```
1) System information
2) OS components
3) exit
#? 2

1) Verify EFI
2) List block devices
3) First boot device
4) exit
#? 2

loop0
loop1
loop2
loop3
loop4
loop5
loop6
loop7
loop8
loop9
loop10
loop11
loop12
loop13
loop14
loop15
loop15
loop16
loop17
loop18
loop19
loop10
loop17
loop18
loop19
loop20
loop20
loop21
loop20
loop21
loop22
loop23
loop24
loop25
loop26
* sda
* nvme0n1
```

Damir Nabiullin - Lab 6 2

```
1) System information
2) OS components
3) exit
#? 2
1) Verify EFI
2) List block devices
3) First boot device
4) exit
#? 3
ubuntu
```

```
1) System information
2) OS components
3) exit
#? 3
Exiting ...
dale@dale-nitro:-/Documents/SNA/Week 6$
```

Damir Nabiullin - Lab 6