

CFC Linux Fundamentals Project

Customise your Kali Linux

Kong Pin Cheong Leonard Arthur

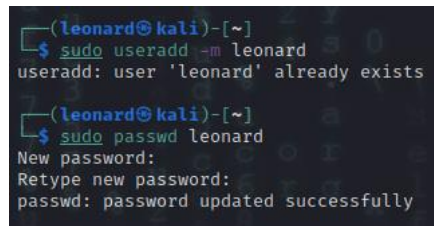
1. Create a new user and add user into sudo group.

Command to add user and create a home directory for the user.

```
`sudo useradd -m leonard`
```

Set the password of the user

```
`sudo passwd leonard`
```

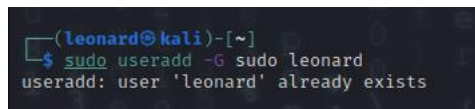


```
(leonard@kali)-[~]  
$ sudo useradd -m leonard  
useradd: user 'leonard' already exists  
  
(leonard@kali)-[~]  
$ sudo passwd leonard  
New password:  
Retype new password:  
passwd: password updated successfully
```

Figure 1 - Add user and set password

Add to 'sudoers' group

```
`sudo usermod -a -G sudo leonard`
```



```
(leonard@kali)-[~]  
$ sudo useradd -G sudo leonard  
useradd: user 'leonard' already exists
```

Figure 2 - Add to sudo group

2. Locate the passwd file and make sure your user's default shell language is /bin/bash

Check on shell

```
`cat /etc/passwd | grep leonard`
```

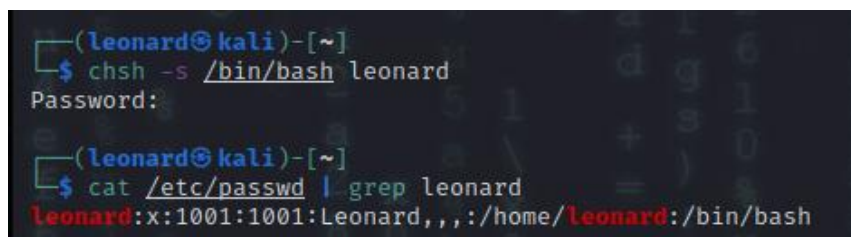


```
(leonard@kali)-[~]  
$ cat /etc/passwd | grep leonard  
leonard:x:1001:1001:Leonard,,,:/home/leonard:/bin/zsh
```

Figure 3 - Check passwd file for default shell

Change default shell to bash

```
`chsh -s /bin/bash leonard`
```



```
(leonard@kali)-[~]  
$ chsh -s /bin/bash leonard  
Password:  
  
(leonard@kali)-[~]  
$ cat /etc/passwd | grep leonard  
leonard:x:1001:1001:Leonard,,,:/home/leonard:/bin/bash
```

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3. Switch to your new created user and add in alias commands to your .bashrc for your new user the following:

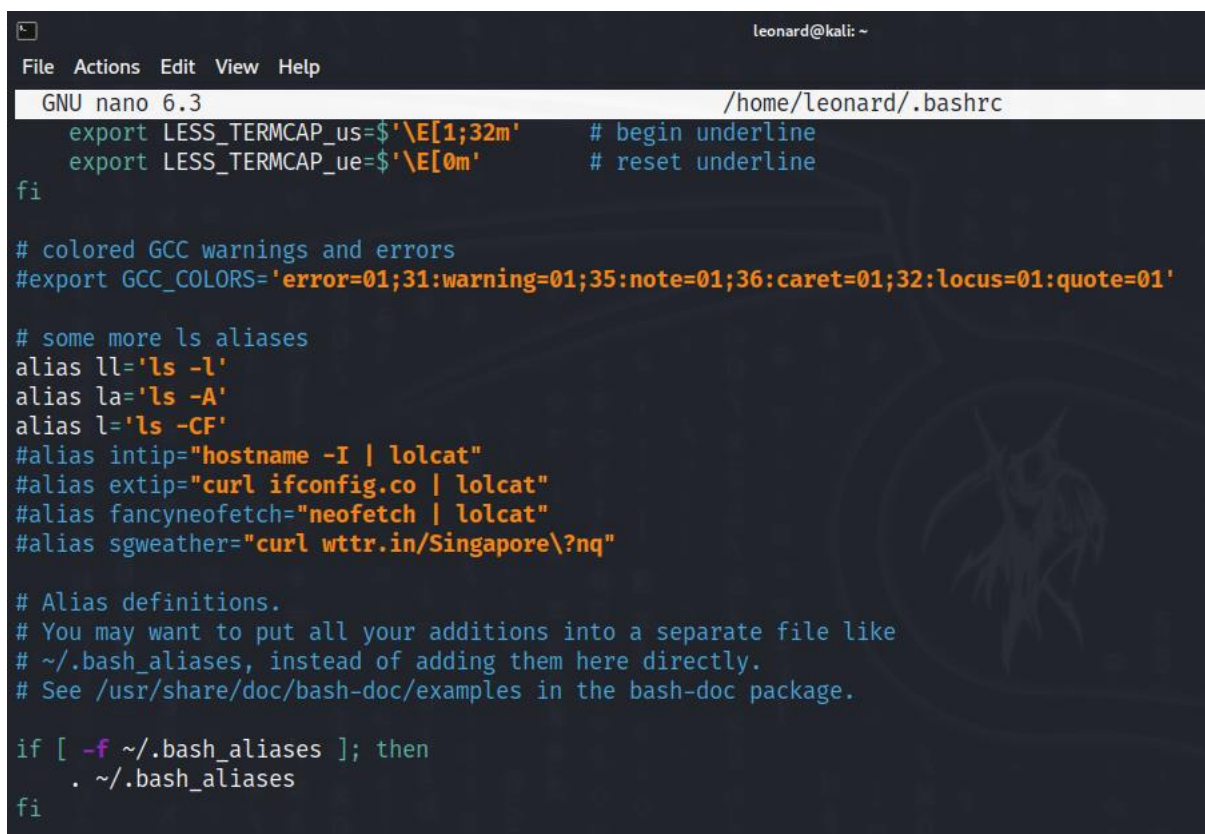
•Internal IP address (use hostname -I)

```
`alias intip="hostname -I | lolcat"`
```

•External IP address (curl ifconfig.co)

```
`alias extip="curl ifconfig.com | lolcat"`
```

Create some alias commands in .bashrc



```
leonard@kali: ~  
File Actions Edit View Help  
GNU nano 6.3 /home/leonard/.bashrc  
export LESS_TERMCAP_us='${E[1;32m}' # begin underline  
export LESS_TERMCAP_ue='${E[0m}' # reset underline  
fi  
  
# colored GCC warnings and errors  
#export GCC_COLORS='error=01;31:warning=01;35:note=01;36:caret=01;32:locus=01:quote=01'  
  
# some more ls aliases  
alias ll='ls -l'  
alias la='ls -A'  
alias l='ls -CF'  
#alias intip="hostname -I | lolcat"  
#alias extip="curl ifconfig.co | lolcat"  
#alias fancyneofetch="neofetch | lolcat"  
#alias sgweather="curl wttr.in/Singapore?q"  
  
# Alias definitions.  
# You may want to put all your additions into a separate file like  
# ~/.bash_aliases, instead of adding them here directly.  
# See /usr/share/doc/bash-doc/examples in the bash-doc package.  
  
if [ -f ~/.bash_aliases ]; then  
    . ~/.bash_aliases  
fi
```

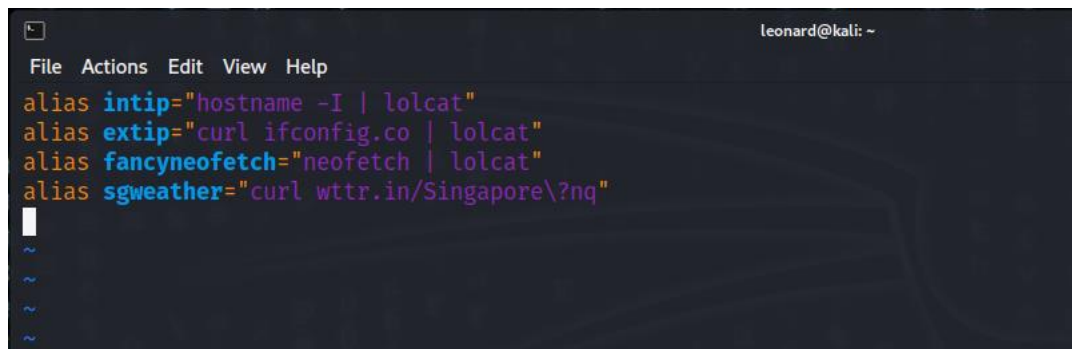
Figure 4 - ~/.bashrc file

Put the aliases in a separate file ~/.bash_aliases

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A screenshot of a terminal window with a dark background. The window title is 'leonard@kali: ~'. The menu bar shows 'File', 'Actions', 'Edit', 'View', and 'Help'. The terminal content shows four alias definitions: 'alias intip="hostname -I | lolcat"', 'alias extip="curl ifconfig.co | lolcat"', 'alias fancyneofetch="neofetch | lolcat"', and 'alias sgweather="curl wttr.in/Singapore?q"'. There are four tilde '~' characters on subsequent lines, indicating a scrollable history. A white cursor is visible on the line following the last alias.

```
leonard@kali: ~  
File Actions Edit View Help  
alias intip="hostname -I | lolcat"  
alias extip="curl ifconfig.co | lolcat"  
alias fancyneofetch="neofetch | lolcat"  
alias sgweather="curl wttr.in/Singapore?q"  
~  
~  
~  
~
```

Figure 5 - ~/.bash_aliases file

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4. Reboot and log in as user. Use the commands and document to show that the commands work (Block the IP Address for External IP).

```
(leonard@kali)-[~]
$ intip
192.168.153.128
```

Figure 6 - intip alias for internal IP

```
(leonard@kali)-[~]
$ extip
% Total      % Received % Xferd  Average Speed   Time    Time     Time
Current                                  Dload  Upload  Total  Spent  Left
Speed
  0         0     0      0     0      0     0      0  --:--:--  --:--:--  --:--:--
100      15  100     15     0      0    67      0  --:--:--  --:--:--  --:--:--
  68
```

Figure 7- extip alias for external IP

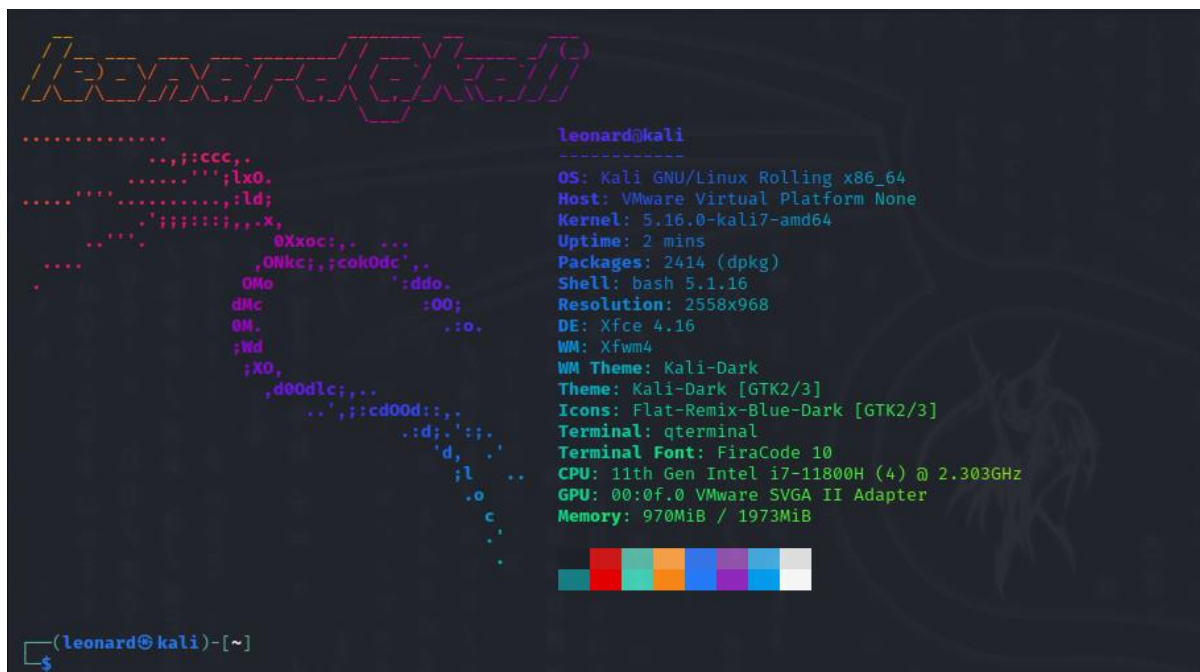
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5. (Additional) Download and create a figlet that shows up whenever you log in into your Kali Linux

Pimp my terminal – it works. Figlet, neofetch and lolcat



```
leonard@kali
-----
OS: Kali GNU/Linux Rolling x86_64
Host: VMware Virtual Platform None
Kernel: 5.16.0-kali7-amd64
Uptime: 2 mins
Packages: 2414 (dpkg)
Shell: bash 5.1.16
Resolution: 2558x968
DE: Xfce 4.16
WM: Xfwm4
WM Theme: Kali-Dark
Theme: Kali-Dark [GTK2/3]
Icons: Flat-Remix-Blue-Dark [GTK2/3]
Terminal: qterminal
Terminal Font: FiraCode 10
CPU: 11th Gen Intel i7-11800H (4) @ 2.303GHz
GPU: 00:0f.0 VMware SVGA II Adapter
Memory: 970MiB / 1973MiB

(leonard@kali)-[~]
$
```

Figure 8 - Figlet, neofetch and lolcat