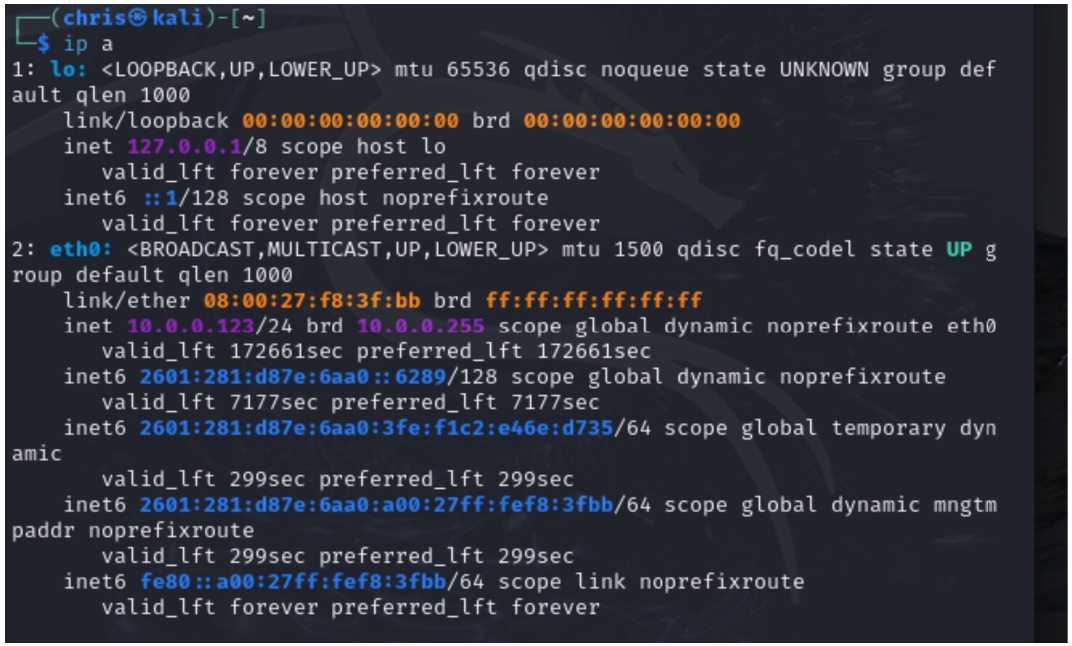
Beginner Bash

Before we begin lets check our IP because we will want to know this for the script we are about to write.

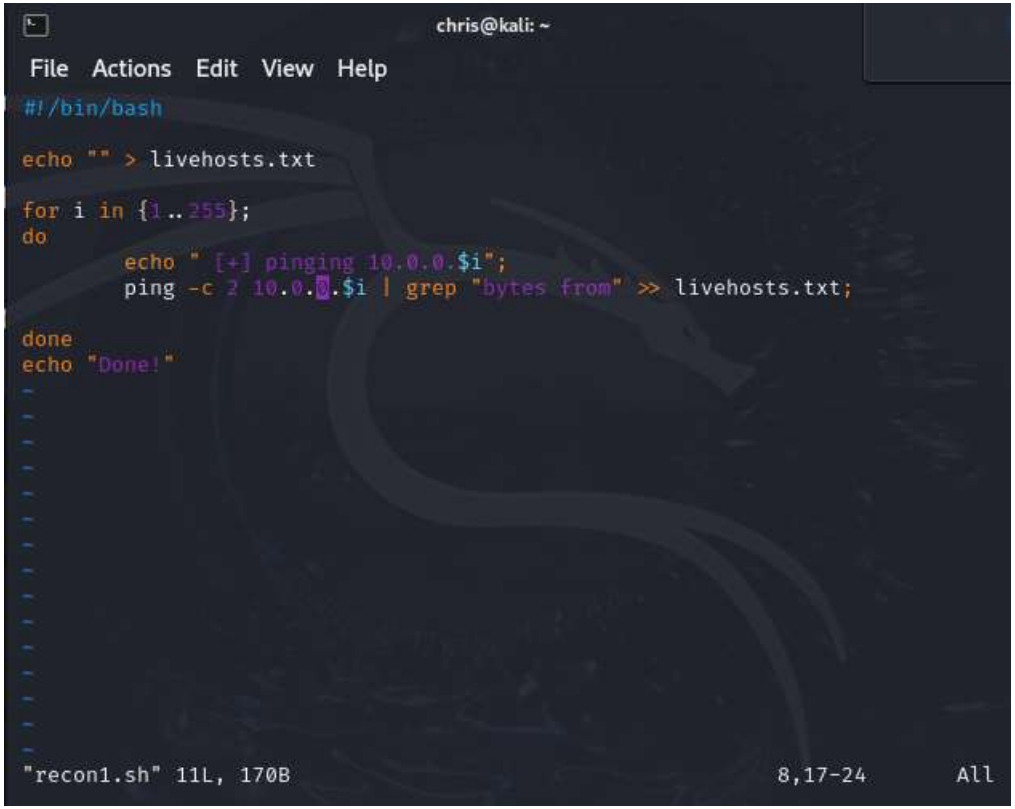


Now lets enter VIM to draft the bash script and call it recon1.sh

Lets setup a simple ping script for our host and see what we find.

Please note all bash scripts must start with #!/bin/bash

```
┌──(chris㉿kali)-[~]
└─$ vim recon1.sh
```



Lets run the script:
“./recon1.sh”

What did we forget…

Yes, privileges need to be set to executable. Lets do that fast using “chmod”

Run it again and we should see it start running.

```
┌──(chris㉿kali)-[~]
└─$ ./recon1.sh
zsh: permission denied: ./recon1.sh
```

```
┌──(chris㉿kali)-[~]
└─$ chmod +x recon1.sh
```

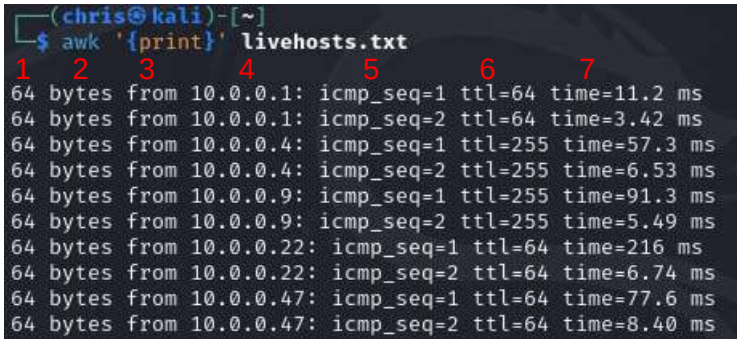
```
┌──(chris㉿kali)-[~]
└─$ ls -l
total 36
drwxr-xr-x 2 chris chris 4096 Mar 21 16:09 Desktop
drwxr-xr-x 2 chris chris 4096 Mar 21 16:09 Documents
drwxr-xr-x 2 chris chris 4096 Mar 21 16:09 Downloads
drwxr-xr-x 2 chris chris 4096 Mar 21 16:09 Music
drwxr-xr-x 2 chris chris 4096 Mar 21 16:09 Pictures
drwxr-xr-x 2 chris chris 4096 Mar 21 16:09 Public
drwxr-xr-x 2 chris chris 4096 Mar 21 16:09 Templates
drwxr-xr-x 2 chris chris 4096 Mar 21 16:09 Videos
-rwxr-xr-x 1 chris chris  174 Mar 22 09:43 recon1.sh
```

```
┌──(chris㉿kali)-[~]
└─$ ./recon1.sh
 [+] pinging 10.0.0.0.1
ping: 10.0.0.0.1: Name or service not known
 [+] pinging 10.0.0.0.2
ping: 10.0.0.0.2: Name or service not known
 [+] pinging 10.0.0.0.3
ping: 10.0.0.0.3: Name or service not known
 [+] pinging 10.0.0.0.4
ping: 10.0.0.0.4: Name or service not known
 [+] pinging 10.0.0.0.5
ping: 10.0.0.0.5: Name or service not known
 [+] pinging 10.0.0.0.6
ping: 10.0.0.0.6: Name or service not known
 [+] pinging 10.0.0.0.7
ping: 10.0.0.0.7: Name or service not known
```

Lets use awk command to see what our script found.

Awk is a good command for pattern data processing and more.

“awk ‘{print}’ will show us the file. Notice the spacing and think of those as columns.



Lets now check and view the IP column (4)

```
┌──(chris㉿kali)-[~]
└─$ awk '{print $4}' livehosts.txt

10.0.0.1:
10.0.0.1:
10.0.0.4:
10.0.0.4:
10.0.0.9:
10.0.0.9:
10.0.0.22:
10.0.0.22:
10.0.0.47:
10.0.0.47:
10.0.0.76:
10.0.0.76:
10.0.0.92:
10.0.0.92:
10.0.0.101:
10.0.0.101:
```

Ok, but looks like we have duplicates so lets sort (hint) those out. We will do that by adding “|” sort -u.

```
┌──(chris㉿kali)-[~]
└─$ awk '{print $4}' livehosts.txt | sort -u

10.0.0.101:
10.0.0.102:
10.0.0.103:
10.0.0.106:
10.0.0.115:
10.0.0.123:
10.0.0.136:
10.0.0.146:
10.0.0.159:
10.0.0.161:
10.0.0.168:
10.0.0.177:
10.0.0.1:
10.0.0.220:
10.0.0.226:
10.0.0.228:
10.0.0.22:
10.0.0.237:
10.0.0.240:
10.0.0.47:
10.0.0.4:
```

Looks good!

Lastly, lets put the results in a separate file so we can use them later on.

We are going to append “>” them to TargetList.txt

Quick check with “cat” and...success!