Linux Fundamentals:
Link to challenge:
https://academy.hackthebox.com/module/18/section/94
(log in required)
System Information:
Question:
Find out the machine hardware name and submit it as the answer
Answer:
x86_64
Command:
uname -i
Question:
What is the path to the htb-student's mail?
Answer:
/var/mail/htb-student
Command:
env grep mail
Question:
Which shell is specified for the htb-student user?
Answer:
/bin/bash
Command:

Question:
Which kernel version is installed on the system? (Format: 1.22.3)
Answer:
4.15.0
Command:
uname -r
Question:
What is the name of the network interface that MTU is set to 1500?
Answer:
ens192
Command:
ifconfig grep 1500

Navigation
Question:
What is the name of the hidden "history" file in the htb-user's home directory?
Answer:
.bash_history
Command:
Is -a grep history
Question:
What is the index number of the "sudoers" file in the "/etc" directory?
Answer:
147627
Command:
ls /etc/sudoers -i

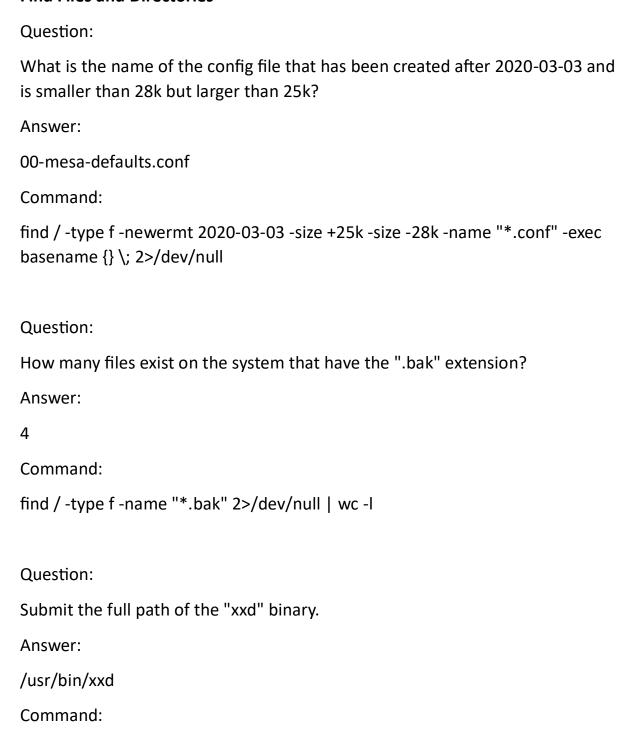
Question: What is the name of the last modified file in the "/var/backups" directory? Answer: apt.extended_states.0 Command: Is -It /var/backups | sed '2q;d' Question: What is the inode number of the "shadow.bak" file in the "/var/backups" directory? Answer: 265293 Command:

Working with Files and Directories:

Is /var/backups/shadow.bak -i | awk '{print \$1}'

Find Files and Directories

which xxd



Question: How many files exist on the system that have the ".log" file extension? Answer: 32 Command: find / -type f -name "*.log" 2>/dev/null | wc -l Question: How many total packages are installed on the target system? Answer: 737 Command:

File Descriptors and Redirections:

dpkg --list | grep ^ii | wc -l

Filter Contents

Question:

How many services are listening on the target system on all interfaces? (Not on localhost and IPv4 only)

Answer:

7

Command:

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ss -I -4 | grep -v "127\.0\.0" | grep "LISTEN" | wc -I
```

(-I: listening services only

-4: ipv4 display only)

Question:

Determine what user the ProFTPd server is running under. Submit the username as the answer.

Answer:

Proftpd

Command:

Option1: systemctl list-units --type=service --state=running | grep -i proftpd

Option2: ps aux | grep -i proftpd

(-i: case insensitive search)

User Management

Question:
Which option needs to be set to create a home directory for a new user using "useradd" command?
Answer:
-m
Question:
Which option needs to be set to lock a user account using the "usermod" command? (long version of the option)
Answer:
lock
Question:
Which option needs to be set to execute a command as a different user using the "su" command? (long version of the option)
Answer:
command

Service and Process Management

systemctl show syslog.service -p Type

Question:
Use the "systemctl" command to list all units of services and submit the unit name with the description "Load AppArmor profiles managed internally by snapd" as the answer.
Answer:
snapd.apparmor.service
Command:
systemctl list-unitstype=service grep "Load AppArmor profiles managed internally by snapd" awk '{print \$1}'
Task Scheduling:
Question:
What is the type of the service of the "syslog.service"?
Answer:
notify
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