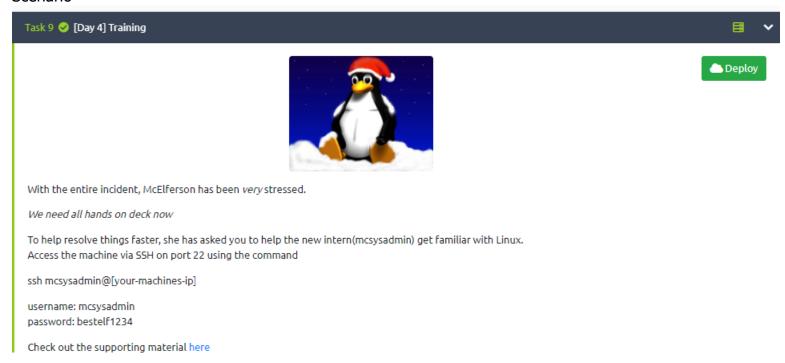
Day 4 - Training

Scenario



now let's login into mysysadmin ssh account with the credential provided

```
Question: How many visible files are there in the home directory(excluding ./ and ../)?

https://aws.amazon.com/amazon-linux-2/
[mcsysadmin@ip-10-10-26-238 ~]$ ls

file1 file2 file3 file4 file5 file6 file7 file8
[mcsysadmin@ip-10-10-26-238 ~]$
```

-8

Question: What is the content of file5?

```
[mcsysadmin@ip-10-10-26-238 ~]$ cat file5 recipes [mcsysadmin@ip-10-10-26-238 ~]$
```

-recipes

Question: Which file contains the string 'password'?

-grep -H = with filename

-file6

Question: What is the IP address in a file in the home folder?

-grep -Eo = using Extendex regex + only matches

```
[mcsysadmin@ip-10-10-26-238 ~]$ find . -type f -exec grep -H -Eo '[0-9]{1,3}\.[0-9]{1,3}\.[0-9]{1,3}\.[0-9]{1,3}\.[0-9]{1,3}\.[0-9]{1,3}\.[0-9]{1,3}\.[0-9]{1,3}\.[0-9]{1,3}\.[0-9]{1,3}\.[0-9]{1,3}\.[0-9]{1,3}\.[0-9]{1,3}\.[0-9]{1,3}\.[0-9]{1,3}\.[0-9]{1,3}\.[0-9]{1,3}\.[0-9]{1,3}\.[0-9]{1,3}\.[0-9]{1,3}\.[0-9]{1,3}\.[0-9]{1,3}\.[0-9]{1,3}\.[0-9]{1,3}\.[0-9]{1,3}\.[0-9]{1,3}\.[0-9]{1,3}\.[0-9]{1,3}\.[0-9]{1,3}\.[0-9]{1,3}\.[0-9]{1,3}\.[0-9]{1,3}\.[0-9]{1,3}\.[0-9]{1,3}\.[0-9]{1,3}\.[0-9]{1,3}\.[0-9]{1,3}\.[0-9]{1,3}\.[0-9]{1,3}\.[0-9]{1,3}\.[0-9]{1,3}\.[0-9]{1,3}\.[0-9]{1,3}\.[0-9]{1,3}\.[0-9]{1,3}\.[0-9]{1,3}\.[0-9]{1,3}\.[0-9]{1,3}\.[0-9]{1,3}\.[0-9]{1,3}\.[0-9]{1,3}\.[0-9]{1,3}\.[0-9]{1,3}\.[0-9]{1,3}\.[0-9]{1,3}\.[0-9]{1,3}\.[0-9]{1,3}\.[0-9]{1,3}\.[0-9]{1,3}\.[0-9]{1,3}\.[0-9]{1,3}\.[0-9]{1,3}\.[0-9]{1,3}\.[0-9]{1,3}\.[0-9]{1,3}\.[0-9]{1,3}\.[0-9]{1,3}\.[0-9]{1,3}\.[0-9]{1,3}\.[0-9]{1,3}\.[0-9]{1,3}\.[0-9]{1,3}\.[0-9]{1,3}\.[0-9]{1,3}\.[0-9]{1,3}\.[0-9]{1,3}\.[0-9]{1,3}\.[0-9]{1,3}\.[0-9]{1,3}\.[0-9]{1,3}\.[0-9]{1,3}\.[0-9]{1,3}\.[0-9]{1,3}\.[0-9]{1,3}\.[0-9]{1,3}\.[0-9]{1,3}\.[0-9]{1,3}\.[0-9]{1,3}\.[0-9]{1,3}\.[0-9]{1,3}\.[0-9]{1,3}\.[0-9]{1,3}\.[0-9]{1,3}\.[0-9]{1,3}\.[0-9]{1,3}\.[0-9]{1,3}\.[0-9]{1,3}\.[0-9]{1,3}\.[0-9]{1,3}\.[0-9]{1,3}\.[0-9]{1,3}\.[0-9]{1,3}\.[0-9]{1,3}\.[0-9]{1,3}\.[0-9]{1,3}\.[0-9]{1,3}\.[0-9]{1,3}\.[0-9]{1,3}\.[0-9]{1,3}\.[0-9]{1,3}\.[0-9]{1,3}\.[0-9]{1,3}\.[0-9]{1,3}\.[0-9]{1,3}\.[0-9]{1,3}\.[0-9]{1,3}\.[0-9]{1,3}\.[0-9]{1,3}\.[0-9]{1,3}\.[0-9]{1,3}\.[0-9]{1,3}\.[0-9]{1,3}\.[0-9]{1,3}\.[0-9]{1,3}\.[0-9]{1,3}\.[0-9]{1,3}\.[0-9]{1,3}\.[0-9]{1,3}\.[0-9]{1,3}\.[0-9]{1,3}\.[0-9]{1,3}\.[0-9]{1,3}\.[0-9]{1,3}\.[0-9]{1,3}\.[0-9]{1,3}\.[0-9]{1,3}\.[0-9]{1,3}\.[0-9]{1,3}\.[0-9]{1,3}\.[0-9]{1,3}\.[0-9]{1,3}\.[0-9]{1,3}\.[0-9]{1,3}\.[0-9]{1,3}\.[0-9]{1,3}\.[0-9]{1,3}\.[0-9]{1,3}\.[0-9]{1,3}\.[0-9]{1,3}\.[0-9]{1,3}\.[0-9]{1,3}\.[0-9]{1,3}\.[0-9]{1,3}\.[0-9]{1,3}\.[0-9]{1,3}\.[0-9]{1,3}\.[0-9]{1,3}\.[0-9]{1,3}\.[0-9]{1,3}\.[0-9]{1,3}\.[0-9]{1,3}\.[0-9]{1,3}\.[0-9]{1,3}\.[0-9]{1,3}\.[0-9]{1,3}\.
```

-10.0.0.05

Question: How many users can log into the machine?

-we can check he /etc/passwd to check users that have a shell(bash, sh, zsh,etc) when login

-by removing the sync user, we'll have 3 users that can log into the machine

```
[mcsysadmin@ip-10-10-26-238 ~]$ grep -v '/sbin/' /etc/passwd
root:x:0:0:root:/root:/bin/bash
sync:x:5:0:sync:/sbin:/bin/sync
ec2-user:x:1000:1000:EC2 Default User:/home/ec2-user:/bin/bash
mcsysadmin:x:1001:1001::/home/mcsysadmin:/bin/bash
[mcsysadmin@ip-10-10-26-238 ~]$
```

-3

Ouestion: What is the sha1 hash of file8?

```
[mcsysadmin@ip-10-10-26-238 ~]$ sha1sum file8 fa67ee594358d83becdd2cb6c466b25320fd2835 file8
```

-fa67ee594358d83becdd2cb6c466b25320fd2835

Question: What is mcsysadmin's password hash?

if we find any shadow files that we can read, it seems that there's a shadow.bak we've found in the /var directory

```
[mcsysadmin@ip-10-10-26-238 ~]$ find / -name shadow* -type f 2>/dev/null /etc/shadow /etc/shadow- /var/shadow.bak
```

the content of shadow.bak & it seems like this was the shadow backup file!

```
[mcsysadmin@ip-10-10-26-238 var]$ cat /var/shadow.bak
root:*LOCK*:14600::::::
bin:*:17919:0:99999:7:::
daemon:*:17919:0:99999:7:::
adm:*:17919:0:99999:7:::
lp:*:17919:0:99999:7:::
sync:*:17919:0:99999:7:::
shutdown:*:17919:0:99999:7:::
halt:*:17919:0:99999:7:::
mail:*:17919:0:99999:7:::
operator: *:17919:0:99999:7:::
games:*:17919:0:99999:7:::
ftp:*:17919:0:99999:7:::
nobody:*:17919:0:99999:7:::
systemd-network: !!:18218:::::
dbus: !! :18218:::::
rpc: !! :18218:0:99999:7:::
libstoragemgmt: !!:18218:::::
```

mcsysadmin password hash

mcsysadmin:\$6\$jbosYsU/\$qOYToX/hnKGjT0EscuUIiIqF8GHgokHdy/Rg/DaB.RgkrbeBXPdzpHdMLI6cQJLdFlS4gkBMzilDBYcQvu2ro/:18234:0:99999:7:::

-\$6\$jbosYsU/\$qOYToX/hnKGjT0EscuUIiIqF8GHgokHdy/Rg/DaB.RgkrbeBXPdzpHdMLI6cQJLdFlS4gkBMzilDBYcQvu2ro/