Assessment- 1 Skillbased

1]Create directory /home/manager" with following chrecterstics

a]Group ownership of /home/manager is "sysadms"

b]The directory should have full permission for all the members of sysadms group but not to

the other users except "root"

c]file created in the future under /home/manager should get the same group ownership**[note apply sticky bit on group]**

Answer;

```
drwxrwx--T. 2 root        sysadms      6 Oct 22 18:00 manager
drwx------. 2 newusername newusername 62 Oct 19 14:52 newusername
drwx------. 2 rchawla     rchawla     62 Oct 18 17:53 rchawla
[root@localhost home]#
```

2]copy the file /etc/fstab to /var/tmp and configure ACL as following **[note for copying**

use command #cp -rv /etc/fstab /var/tmp]

a]the file/var/tmp/fstab should be owned by root

b]the file /var/tmp/fstab should belong to group root

c]It should not be executed by anyone

d]the user "sara" should be able to read and write this file

e]user "harry" can niether read nor write to the file

Answer:

```
login as: root
root@192.168.0.106's password:
Last login: Fri Oct 22 19:21:27 2021 from 192.168.0.103
[root@localhost ~]# setfacl -m u:sara:rw /var/tmp/fstab
[root@localhost ~]# setfacl -m u:harry:--- /var/tmp/fstab
[root@localhost ~]# getfacl /var/tmp/fstab
getfacl: Removing leading '/' from absolute path names
# file: var/tmp/fstab
# owner: root
# group: root
user::rw-
user:harry:---
user:sara:rw-
group::r--
mask::rw-
other::r--
```

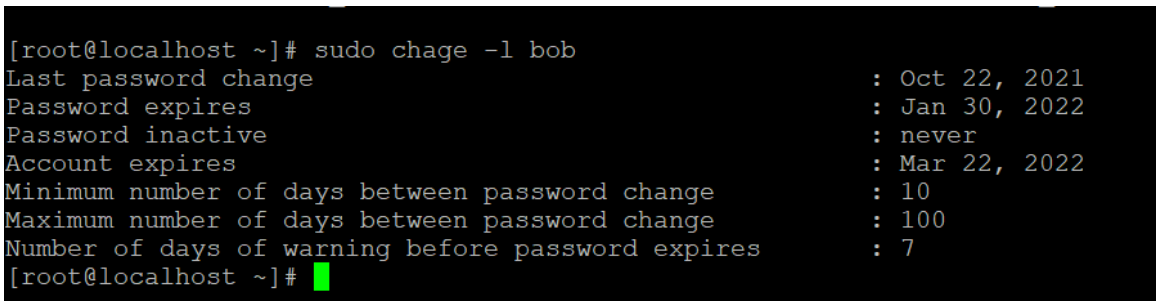
3]Create user "bob" with "2012" uid and set the password " redhat"

aging parameter

a]Expire on 22 Mar 2022

b]Set "Max number of password days =100 "Minimal number of possword days =10

Ans:



4] What are the benefits of Linux operating system, what are primary partitions of Linux, explain directory structure shortly

Ans: **Benefits of linux operating system**

1. Linux is Secure and Private Linux is more secure in comparison to other competing operating systems. ...
2. Linux is Free to Use and Update Linux is not licensed and is free to download and use. ...
3. Linux Extends the Life of Older Computer Hardware Linux helps you utilize your old and outdated computer systems because you can choose to use ‘lighter’ distros of Linux for ...
4. Flexibility for the End-user or Corporate Engineer Linux benefits the advanced engineer just as much as it does the novice user thanks to the ability to set Linux up ...
5. Linux is Easy to Install Linux is easily installed from the web without any prerequisites as it can run on any hardware. ...
6. Linux is Reliable

Primary partitions of linux

Primary partitioning are those which are made at the time of installation of operating system.

There are 3 primary partitions in linux

1) /boot
2) /
3) Swap

Directory structure

Directory structure is a tree like structure. The base of the linux file system hierarchy begins at Root. The bin directory is where you will find binary or executable files. And, Configuration files live in the /etc directory.

5]What is use of " find "command **give example** ,head & tail command **give example**, which command is use to check details of your linux os

Ans: **Find command** is used to search and locate the list of files and directories based on conditions specified for files that match the arguments.

Head and Tail command

The head and tail command are both used to write the result to standard output.

The head command prints lines from the beginning of a file, and the tail command prints lines from the end of files.

Syntax for head command	syntax for tail command
head -n 5 filename	**tail -n 5 filename**
where,	**where,**
n=input 5= value	**n=input 5= value**

lsb_release command is used to check the details of Linux Operating System