ASSIGNMENT ON LINUX FUNDAMENTALS

PROBLEM

Your login name: altschool i.e., home directory /home/altschool. The home directory contains the following sub-directories: code, tests, personal, misc Unless otherwise specified, you are running commands from the home directory.

a. Change directory to the tests directory using absolute pathname

b.Change directory to the tests directory using relative pathname

c.Use echo command to create a file named fileA with text content 'Hello A' in the misc directory

d.Create an empty file named fileB in the misc directory. Populate the file with a dummy content afterwards

e.Copy contents of fileA into fileC

f.Move contents of fileB into fileD

g.Create a tar archive called misc.tar for the contents of misc directory

h.Compress the tar archive to create a misc.tar.gz file

I. Create a user and force the user to change his/her password upon login

J. Lock a users password

K. Create a user with no login shell

L. Disable password based authentication for ssh

M. Disable root login for ssh

Mode of submission:

you are going to push the required commands to your github repositories.

Deadline: 10th Feb 2024

SOLUTION

1. Change directory to the tests directory using absolute pathname

2. Change directory to the tests directory using relative pathname

```
altschool-cloud@ubuntu-focal:/home/altschool/tests$ cd ..
altschool-cloud@ubuntu-focal:/home/altschool$ cd ./tests
altschool-cloud@ubuntu-focal:/home/altschool/tests$ cd
```

3. Use echo command to create a file named fileA with text content 'Hello A' in the misc directory

4. Create an empty file named fileB in the misc directory. Populate the file with a dummy content afterwards

```
alschool-cloudBubuntu-focal:/home/alschool/miscS touch files
touch: cannot touch 'files': Premission denied
alschool-cloudBubuntu-focal:/home/alschool/miscS sudo touch files
alschool-cloudBubuntu-focal:/home/alschool/miscS sudo touch files
alschool-cloudBubuntu-focal:/home/alschool/miscS choo 'I present to you dummy content:)" > files
alschool-cloudBubuntu-focal:/home/alschool/miscS echo 'I present to you dummy content:)
alschool-cloudBubuntu-focal:/home/alschool/miscS echo 'I present to you dummy content:)
alschool-cloudBubuntu-focal:/home/alschool/miscS cat files
I present to you dummy content:)
alschool-cloudBubuntu-focal:/home/alschool/miscS cat files
I present to you dummy content:)
```

Copy contents of fileA into fileC

```
altschool-cloúd@ubuntú-focal:/home/altschool/misc$ sudo cp fileA fileC
altschool-cloud@ubuntu-focal:/home/altschool/misc$ ls
fileA fileB fileC
```

6. Move contents of fileB into fileD

```
altschool-cloud@ubuntu-focal:/home/altschool/misc$ sudo mv fileB fileD
altschool-cloud@ubuntu-focal:/home/altschool/misc$ ls
fileA fileC fileD
```

7. Create a tar archive called misc.tar for the contents of misc directory

```
altschool-cloud@ubuntu-focal:/home/altschools sudo tar -cvf misc.tar ./misc
./misc/fileD
./misc/
```

8. Compress the tar archive to create a misc.tar.gz file

```
altschool-cloud@ubuntu-focal:/home/altschool$ sudo gzip misc.tar
altschool-cloud@ubuntu-focal:/home/altschool$ ls
code misc misc.tar.gz personal tests
```

9. Create a user and force the user to change his/her password upon login

```
Last login: Fri Feb 9 14:06:17 2024 from 10.0.2.2
vagrant@buntu-focal:-$ su - altschool-cloud
vagrant@buntu-focal:-$ su - altschool-cloud
valsemoid
valsemoid-clouddubuntu-focal:-$ sudo useradd dummyuser2
{sudo] password for altschool-cloud
valsemoid-clouddubuntu-focal:-$ sudo passwd --expire dummyuser2
passwd: password expiry information changed.
```

10. Lock a users password

altschool-cloud@ubuntu-focal:~\$ sudo passwd --lock dummyuser2 passwd: password expiry information changed.

11. Create a user with no login shell

```
altschool-cloud@ubuntu-focal:~$ sudo adduser --system --no-create-home --shell /usr/sbin/nologin dummyuser3
Adding system user 'dummyuser3' (UID 114) ...
Adding new user 'dummyuser3' (UID 114) with group `nogroup' ...
Not creating home directory `/home/dummyuser3'.
```

12. Disable password based authentication for ssh

```
Altschool-cloud@ubutu-focal:-5 sudo ano /erc/ssh/sshd_config altschool-cloud@ubutu-focal:-5 sudo ano /erc/ssh/sshd_config altschool-cloud@ubutu-focal:-5 sudo systemctl restart sshd altschool-cloud@ubutu-focal:-5 exit logout connection to 127.0.0.1 closed.

**Connection to 127.0.0.1 closed.

**Seagrant balt**

**Seag
```

13. Disable root login for ssh



FULLSCREEN IMAGES ATTACHED IN THE IMAGES DIRECTORY