Fix Home Directory Assignment for User "david" on opensuse.example.com

Objective:
This task involves resolving a home directory issue for the user "david" on the OpenSUSE 15 Leap system with hostname opensuse.example.com. Currently, the user receives a default home directory upon login, whereas they require a dedicated directory named "/home/david_home". Additionally, ensure the user can create directories and files within this new home directory. The password of david user is 'testuser'

Scenario:
The script you will download sets up a user named "david" on the system. However, the user is not assigned the desired home directory "/home/david_home". As a result, the user receives a default home directory upon login. This task requires you to fix this configuration so "david" has the correct home directory and can manage files within it.

Constraints:
- The root user password for opensuse.example.com is "MyOpenSUSE".
- Ensure the opensuse.example.com system can ping google.com to verify internet connectivity.
- You will download a script using https://raw.githubusercontent.com/INTERNSHIPTASKS/Basic-Linux/main/Task1
- Run the downloaded script on the OpenSUSE 15 Leap system with hostname opensuse.example.com

Solution:

Step 1:- Start Opensuse VM and Login with root user.

Step 2:- Change hostname of root.

- Use command "**hostnamectl set-hostname opensuse.example.com**" to change the hostname.

Step 3:- Change root user password.

- Use command **echo "root:MyOpenSUSE" | chpasswd** to change the password of the root user.

```
opensuse:~ # echo "root:MyOpenSUSE" | chpasswd
opensuse:~ # su - rahul
rahul@opensuse:~> su - root
Password:
opensuse:~ #
```

- To check whether the password is set or not. Login in to any user and then again login to the root user with the current password which you have set.

Step 4:- Verifying Internet Connectivity.

- Ping Google.com.

```
opensuse:~ # ping google.com
PING google.com (142.251.42.46) 56(84) bytes of data.
64 bytes from bom12s20-in-f14.1e100.net (142.251.42.46): icmp_seq=1 ttl=63 time=46.9 ms
64 bytes from bom12s20-in-f14.1e100.net (142.251.42.46): icmp_seq=2 ttl=63 time=221 ms
64 bytes from bom12s20-in-f14.1e100.net (142.251.42.46): icmp_seq=3 ttl=63 time=239 ms
64 bytes from bom12s20-in-f14.1e100.net (142.251.42.46): icmp_seq=4 ttl=63 time=34.3 ms
64 bytes from bom12s20-in-f14.1e100.net (142.251.42.46): icmp_seq=5 ttl=63 time=275 ms
64 bytes from bom12s20-in-f14.1e100.net (142.251.42.46): icmp_seq=6 ttl=63 time=107 ms
64 bytes from bom12s20-in-f14.1e100.net (142.251.42.46): icmp_seq=7 ttl=63 time=271 ms
64 bytes from bom12s20-in-f14.1e100.net (142.251.42.46): icmp_seq=8 ttl=63 time=51.7 ms
64 bytes from bom12s20-in-f14.1e100.net (142.251.42.46): icmp_seq=9 ttl=63 time=312 ms
64 bytes from bom12s20-in-f14.1e100.net (142.251.42.46): icmp_seq=10 ttl=63 time=156 ms
64 bytes from bom12s20-in-f14.1e100.net (142.251.42.46): icmp_seq=11 ttl=63 time=151 ms
64 bytes from bom12s20-in-f14.1e100.net (142.251.42.46): icmp_seq=12 ttl=63 time=103 ms
64 bytes from bom12s20-in-f14.1e100.net (142.251.42.46): icmp_seq=13 ttl=63 time=216 ms
64 bytes from bom12s20-in-f14.1e100.net (142.251.42.46): icmp_seq=14 ttl=63 time=225 ms
64 bytes from bom12s20-in-f14.1e100.net (142.251.42.46): icmp_seq=15 ttl=63 time=71.6 ms
64 bytes from bom12s20-in-f14.1e100.net (142.251.42.46): icmp_seq=16 ttl=63 time=263 ms
64 bytes from bom12s20-in-f14.1e100.net (142.251.42.46): icmp_seq=17 ttl=63 time=277 ms
64 bytes from bom12s20-in-f14.1e100.net (142.251.42.46): icmp_seq=18 ttl=63 time=302 ms
64 bytes from bom12s20-in-f14.1e100.net (142.251.42.46): icmp_seq=19 ttl=63 time=64.7 ms
64 bytes from bom12s20-in-f14.1e100.net (142.251.42.46): icmp_seq=20 ttl=63 time=165 ms
64 bytes from bom12s20-in-f14.1e100.net (142.251.42.46): icmp_seq=21 ttl=63 time=193 ms
64 bytes from bom12s20-in-f14.1e100.net (142.251.42.46): icmp_seq=22 ttl=63 time=182 ms
64 bytes from bom12s20-in-f14.1e100.net (142.251.42.46): icmp_seq=23 ttl=63 time=70.7 ms
64 bytes from bom12s20-in-f14.1e100.net (142.251.42.46): icmp_seq=24 ttl=63 time=227 ms
```

Step 5:- Download and Run script to set up the environment of the scenario.

- Use the following command to download script " wget https://raw.githubusercontent.com/INTERNSHIPTASKS/Basic-Linux/main/Task1"

```
opensuse:~ # wget https://raw.githubusercontent.com/INTERNSHIPTASKS/Basic-Linux/main/Task1
--2024-06-15 12:26:52--  https://raw.githubusercontent.com/INTERNSHIPTASKS/Basic-Linux/main/Task1
Resolving raw.githubusercontent.com (raw.githubusercontent.com)... 185.199.111.133, 185.199.108.133,
 185.199.109.133, ...
Connecting to raw.githubusercontent.com (raw.githubusercontent.com)|185.199.111.133|:443... connecte
d.
HTTP request sent, awaiting response... 200 OK
Length: 1379 (1.3K) [text/plain]
Saving to: 'Task1'

Task1                   100%[===================================>]   1.35K  --.-KB/s    in 0s

2024-06-15 12:26:53 (4.47 MB/s) - 'Task1' saved [1379/1379]

opensuse:~ # ls
.bash_history  .cache  .gnupg  .wget-hsts  Task1  bin  inst-sys
opensuse:~ # sh Task1
 The Scenario is set
```

- After downloading, use the "**ls**" command to see the script file.
- Then, run the script using the "**sh Task1**" command.
- If the script runs successfully then "The Scenario is set" message will display.

Step 6:- Create home directory for user david.

- Create a home directory for user david manually using command "**mkdir /home/david_home"**.

```
opensuse:~ # mkdir /home/david_home
```

Step 7:- Change the Owner and Permission of Directory.

- Change the owner of the directory "**/home/david_home**" to **david**.
- Change the permission of directory "**/home/david_home**" to **775.**

```
opensuse:~ # chown david /home/david_home
opensuse:~ # chmod 755 /home/david_home
```

Step 8:- Assign new home directory to david user.

- Default home directory of the david user is /home/david.

```
opensuse:~ # cat /etc/passwd | grep david
david:x:1001:100::/home/david:/bin/bash
```

Default Directory of David

- Use command "**usermod -d /home/david_home david**" to assign a new directory to user david.

```
opensuse:~ # usermod -d /home/david_home david
opensuse:~ # cat /etc/passwd | grep david
david:x:1001:100::/home/david_home:/bin/bash
```

New Directory of User David

Step 9:- Change the password of david user.

- Execute **echo "david:testuser" | chpasswd** command to change the password of david user.

```
opensuse:~ # echo "david:testuser" | chpasswd
```

Step 10:- Login to david user.

- Execute "**su - david"** command to login with david user.
- Create file using **touch myfile.txt** command and directory using **mkdir direct** command to ensure the given permission.

```
opensuse:~ # su - david
david@opensuse:~> pwd
/home/david_home
david@opensuse:~> touch myfile.txt
david@opensuse:~> mkdir direct
david@opensuse:~> ls
direct  myfile.txt
david@opensuse:~> exit
logout
```