30.11. LABS



Exercise 30.1: Working with User Accounts

- 1. Examine /etc/passwd and /etc/shadow, comparing the fields in each file, especially for the normal user account. What is the same and what is different?
- 2. Create a user1 account using useradd.
- 3. Login as user1 using ssh. You can just do this with:

```
$ ssh user1@localhost
```

It should fail because you need a password for user1; it was never established.

- 4. Set the password for user1 to user1pw and then try to login again as user1.
- 5. Look at the new records which were created in the /etc/passwd, /etc/group and the /etc/shadow files.
- 6. Look at the /etc/default/useradd file and see what the current defaults are set to. Also look at the /etc/login.defs file.
- 7. Create a user account for user2 which will use the **Korn** shell (**ksh**) as its default shell. (if you do not have /bin/ksh install it or use the **C** shell at /bin/csh.) Set the password to user2pw.
- 8. Look at /etc/shadow. What is the current expiration date for the user1 account?
- Use chage to set the account expiration date of user1 to December 1, 2013.
 Look at /etc/shadow to see what the new expiration date is.
- 10. Use **usermod** to lock the user1 account.

Look at /etc/shadow and see what has changed about user1's password. Reset the password to userp1 on the account to complete this exercise.

Solution 30.1

1. \$ sudo grep student /etc/passwd /etc/shadow

```
/etc/passwd:student:x:1000:100:LF Student:/home/student:/bin/bash
/etc/shadow:student:$6$jtoFVPICHhba$iGFFUU8ctrt0GoistJ4/30DrNLi1FS66qnn0VbS6Mvm
luKI08SgbzT5.Ic0Ho5j/S0dCagZmF2RgzTvzLb11H0:16028:0:99999:7:::
```

(You can use any normal user name in the place of student.) About the only thing that matches is the user name field.

- 2. \$ sudo useradd user1
- 3. \$ ssh user1@localhost

```
user1@localhost's password:
```

Note you may have to first start up the **sshd** service as in:

```
$ sudo service sshd restart
or
```

- \$ sudo systemctl restart sshd.service
- 4. \$ sudo passwd user1

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```
Changing password for user user1. New password:
```

5. \$ sudo grep user1 /etc/passwd /etc/shadow

```
/etc/passwd:user1:x:1001:100::/home/user1:/bin/bash
/etc/shadow:user1:$6$0BE1mPMw$CIc7urbQ9ZSnyiniV0eJxKqLFu8fz4whfEexVem2
    TFpucuwRN1CCHZ19XGhj4qVujslRIS.P4aCXd/y1U4utv.:16372:0:99999:7:::
```

6. On either RHEL 7 or openSUSE systems for example:

```
$ cat /etc/default/useradd
# useradd defaults file
GROUP=100
HOME=/home
INACTIVE=-1
EXPIRE=
SHELL=/bin/bash
SKEL=/etc/skel
CREATE_MAIL_SPOOL=yes
$ cat /etc/login.defs
```

We don't reproduce the second file as it is rather longer, but examine it on your system.

```
7. $ sudo useradd -s /bin/ksh user2
$ sudo passwd user2
Changing password for user user2.
New password:
```

8. \$ sudo grep user1 /etc/shadow

```
user1:$6$0BE1mPMw$CIc7urbQ9ZSnyiniVOeJxKqLFu8fz4whfEexVem2TFpucuwRN1CCHZ 19XGhj4qVujslRIS.P4aCXd/y1U4utv.:16372:0:99999:7:::
```

There should be no expiration date.

```
9. $ sudo chage -E 2013-12-1 user1

$ sudo grep user1 /etc/shadow

user1:$6$0BE1mPMw$CIc7urbQ9ZSnyiniV0eJxKqLFu8fz4whfEexVem2TFpucuwRN1CCHZ

19XGhj4qVujslRIS.P4aCXd/y1U4utv::16372:0:99999:7::16040:
```

10. \$ sudo usermod -L user1

```
$ sudo passwd user1
```

