

Vanier College
Faculty of Careers and Technical Programs
Department of Computer Science Technology

Advanced UNIX

Lab #10

Title: Common Administrative Tasks

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Review Questions (p.458-461):

1. D. printing
2. True
3. B. the print queue accepts jobs into the print queue and holds them there until the printer is enabled again
4. D. authentication
5. C. usermod -L username
6. D. newgrp
7. A. lp -d Printer1 file
C. lp file
8. A. /etc/passwd
9. False
10. C. logrotate
11. True
12. A. the print queue does not accept jobs and sends a message to the user noting that the printer is unavailable
13. D. facility, priority
14. C. /var/log
15. C. /etc/login.defs
16. B. journalctl
17. C. usermod -U username
18. False
19. A. cancel Printer1-17 Printer1-21
20. C. userdel username

Project 10.7 (p.467-468):

- 1.

```
Fedora 26 (Workstation Edition)
Kernel 4.16.11-100.fc26.x86_64 on an x86_64 (tty2)

server13 login: root
Password:
Last login: Sun Nov 15 17:58:13 on tty2
[root@server13 ~]# _
```

2.

```
[root@server13 ~]# cat /etc/shadow
root:$6$3s5xDiXqC6xSULQm$Kl0mkhaC.GCaLzLsy1RkkUKjYglheUI2ZRX4zsH6x6We.jlMrQSz4Gw17w9L
faNrW4UrNI0::0:99999:7:::
bin*:17206:0:99999:7:::
daemon*:17206:0:99999:7:::
adm*:17206:0:99999:7:::
lp*:17206:0:99999:7:::
sync*:17206:0:99999:7:::
shutdown*:17206:0:99999:7:::
halt*:17206:0:99999:7:::
mail*:17206:0:99999:7:::
operator*:17206:0:99999:7:::
games*:17206:0:99999:7:::
ftp*:17206:0:99999:7:::
nobody*:17206:0:99999:7:::
apache:!!:18522:::
systemd-coredump:!!:18522:::
systemd-timesync:!!:18522:::
systemd-network:!!:18522:::
systemd-resolve:!!:18522:::
dbus:!!:18522:::
polkitd:!!:18522:::
qemu:!!:18522:::
rtkit:!!:18522:::
avahi:!!:18522:::
usbmuxd:!!:18522:::
radvd:!!:18522:::
openvpn:!!:18522:::
geoclue:!!:18522:::
rpc:!!:18522:0:99999:7:::
nm-openconnect:!!:18522:::
colord:!!:18522:::
nm-openvpn:!!:18522:::
saslauth:!!:18522:::
abrt:!!:18522:::
rpcuser:!!:18522:::
pulse:!!:18522:::
```

```
setroubleshoot:!!:18522:::
gdm:!!:18522:::
gnome-initial-setup:!!:18522:::
sshd:!!:18522:::
chrony:!!:18522:::
tss:!!:18522:::
tcpdump:!!:18522:::
marissa:$6$RZmEaUJcUMFsP1bU$AhmsQBhvdSHC79lwL8bshh7jD8XhT3WG0aydNDtC0pD/fkIjYmw77C8pN
lSuuf2XN6pSxK1:18523:0:99999:7:::
```

```
bozo:$6$pRL9NUIx0.05fQZE$WjBN8BX.YRQkK3.jeSHgsQDGLg960o.jk.j/7UicFbw5lTEu67Cs.IG9b1Aq88u
WbbQ4UQoia0:18591:2:40:5:14:20089:
```

3.

```
[root@server13 ~]# passwd -l bozo
Locking password for user bozo.
passwd: Success
[root@server13 ~]# _
```

4. Basically, the encrypted password record for the user “bozo” now has two exclamation marks (!!) in front of the original encrypted password, since the “bozo” user account is currently locked.

```
[root@server13 ~]# cat /etc/shadow
root:$6$3s5xDiXqC6xSULQm$K10mkhaC.GCaLzLsy1RkkUKjYg1heUI2ZRX4zsH6x6We.jlMrQSz4Gw17w9L
faNrW4UrN10::0:99999:7:::
bin:!:17206:0:99999:7:::
daemon:!:17206:0:99999:7:::
adm:!:17206:0:99999:7:::
lp:!:17206:0:99999:7:::
sync:!:17206:0:99999:7:::
shutdown:!:17206:0:99999:7:::
halt:!:17206:0:99999:7:::
mail:!:17206:0:99999:7:::
operator:!:17206:0:99999:7:::
games:!:17206:0:99999:7:::
ftp:!:17206:0:99999:7:::
nobody:!:17206:0:99999:7:::
apache:!!:18522:::
systemd-coredump:!!:18522:::
systemd-timesync:!!:18522:::
systemd-network:!!:18522:::
systemd-resolve:!!:18522:::
dbus:!!:18522:::
polkitd:!!:18522:::
qemu:!!:18522:::
rtkit:!!:18522:::
avahi:!!:18522:::
usbmuxd:!!:18522:::
radvd:!!:18522:::
openvpn:!!:18522:::
geoclue:!!:18522:::
rpc:!!:18522:0:99999:7:::
nm-openconnect:!!:18522:::
colord:!!:18522:::
nm-openvpn:!!:18522:::
saslauth:!!:18522:::
```

```

abrt:!!:18522:~~~~~
rpcuser:!!:18522:~~~~~
pulse:!!:18522:~~~~~
setroubleshoot:!!:18522:~~~~~
gdm:!!:18522:~~~~~
gnome-initial-setup:!!:18522:~~~~~
sshd:!!:18522:~~~~~
chrony:!!:18522:~~~~~
tss:!!:18522:~~~~~
tcpdump:!!:18522:~~~~~
marissa:$6$RZmEaUJcUMFsP1bU$AhmsQBhvdSHC79lwL8bshh7jD8XhT3WGOaydNDtC0pD/fkIjYmv77C8pN
lSuuF2XN6pSxK1:18523:0:99999:7:::
bozo:!!$6$pRL9NVIx0.05fQZE$WjBN8BX.YRQkK3jeSHgsQDGLg960o jk j/7UicFbw5lTEu67Cs.IG9b1Aq8
SZWbbQ4UQoia0:18591:2:40:5:14:20089:

```

5. No, we weren't able to login successfully into the "bozo" user account.

```

Fedora 26 (Workstation Edition)
Kernel 4.16.11-100.fc26.x86_64 on an x86_64 (tty5)

server13 login: bozo
Password:
Login incorrect

```

- 6.

```

marissa:$6$RZmEaUJcUMFsP1bU$AhmsQBhvdSHC79lwL8bshh7jD8XhT3WGOaydNDtC0pD/fkIjYmv77C8pN
lSuuF2XN6pSxK1:18523:0:99999:7:::
bozo:!!$6$pRL9NVIx0.05fQZE$WjBN8BX.YRQkK3jeSHgsQDGLg960o jk j/7UicFbw5lTEu67Cs.IG9b1Aq8
SZWbbQ4UQoia0:18591:2:40:5:14:20089:
[root@server13 ~]# _

```

- 7.

```

[root@server13 ~]# passwd -u bozo
Unlocking password for user bozo.
passwd: Success
[root@server13 ~]# _

```

8. Essentially, the current encrypted password for the “bozo” user account is the exact same as the original encrypted password without the two exclamation marks, since it is now unlocked.

```
[root@server13 ~]# cat /etc/shadow
root:$6$3s5xDiXqC6xSULQm$K10mkhaC.GCaLzLsy1RkkUKjYg1heUI2ZRX4zsH6x6We.jlMrQSz46w17w9L
faNrW4UrN10::0:99999:7:::
bin:!:17206:0:99999:7:::
daemon:!:17206:0:99999:7:::
adm:!:17206:0:99999:7:::
lp:!:17206:0:99999:7:::
sync:!:17206:0:99999:7:::
shutdown:!:17206:0:99999:7:::
halt:!:17206:0:99999:7:::
mail:!:17206:0:99999:7:::
operator:!:17206:0:99999:7:::
games:!:17206:0:99999:7:::
ftp:!:17206:0:99999:7:::
nobody:!:17206:0:99999:7:::
apache:!!:18522:::
systemd-coredump:!!:18522:::
systemd-timesync:!!:18522:::
systemd-network:!!:18522:::
systemd-resolve:!!:18522:::
dbus:!!:18522:::
polkitd:!!:18522:::
qemu:!!:18522:::
rtkit:!!:18522:::
avahi:!!:18522:::
usbmuxd:!!:18522:::
radvd:!!:18522:::
openvpn:!!:18522:::
geoclue:!!:18522:::
rpc:!!:18522:0:99999:7:::
nm-openconnect:!!:18522:::
colord:!!:18522:::
nm-openvpn:!!:18522:::
saslauth:!!:18522:::
```

```
abrt:!!:18522:::
rpcuser:!!:18522:::
pulse:!!:18522:::
setroubleshoot:!!:18522:::
gdm:!!:18522:::
gnome-initial-setup:!!:18522:::
sshd:!!:18522:::
chrony:!!:18522:::
tss:!!:18522:::
tcpdump:!!:18522:::
marissa:$6$RZmEaUJcUMFsP1bU$AhmsQBhvdSHC791wL8bshh7jD8XhT3WGOaydNDtCOpD/fkIjYmw77C8pN
lSuuf2XN6pSxK1:18523:0:99999:7:::
bozo:$6$pRL9NUIx0.05fQZE$WjBN8BX.YRQkK3.jeSHgsQDGLg960o.jk.j/7UicFbw51TEu67Cs.IG9b1Aq88u
WbbQ4UQoia0:18591:2:40:5:14:20089:
```

9. Yes, we were able to login successfully into the “bozo” user account.

```
Fedora 26 (Workstation Edition)
Kernel 4.16.11-100.fc26.x86_64 on an x86_64 (tty5)

server13 login: bozo
Password:
Last failed login: Wed Nov 25 07:31:58 EST 2020 on tty5
There were 2 failed login attempts since the last successful login.
[bozo@server13 ~]$
```

- 10.

```
[bozo@server13 ~]$ exit
```

```
Fedora 26 (Workstation Edition)
Kernel 4.16.11-100.fc26.x86_64 on an x86_64 (tty5)

server13 login:
```

- 11.

```
marissa:$6$RZmEaUJcUMFsP1bU$AhmsQBhvdSHC79lwL8bshh7jD8XhT3WGOaydNDtC0pD/fkIjYmw77C8pN
lSuuF2XN6pSxK1:18523:0:99999:7:::
bozo:$6$pRL9NUIx0.05fQZE$WjBN8BX.YRQkK3jeSHgsQDGLg960ojk/j7UicFbw5lTEu67Cs.IG9blAq88u
WbbQ4UQoia0:18591:2:40:5:14:20089:
[root@server13 ~]# _
```

12. We received a message indicating that the /bin/false shell is not listed in the /etc/shells directory, but the shell was changed regardless.

```
[root@server13 ~]# chsh -s /bin/false bozo
Changing shell for bozo.
chsh: Warning: "/bin/false" is not listed in /etc/shells.
Shell changed.
```



```

[root@server13 ~]# cat /etc/passwd
root:x:0:0:root:/root:/bin/bash
bin:x:1:1:bin:/bin:/sbin/nologin
daemon:x:2:2:daemon:/sbin:/sbin/nologin
adm:x:3:4:adm:/var/adm:/sbin/nologin
lp:x:4:7:lp:/var/spool/lpd:/sbin/nologin
sync:x:5:0:sync:/sbin:/bin/sync
shutdown:x:6:0:shutdown:/sbin:/sbin/shutdown
halt:x:7:0:halt:/sbin:/sbin/halt
mail:x:8:12:mail:/var/spool/mail:/sbin/nologin
operator:x:11:0:operator:/root:/sbin/nologin
games:x:12:100:games:/usr/games:/sbin/nologin
ftp:x:14:50:FTP User:/var/ftp:/sbin/nologin
nobody:x:99:99:Nobody:/:/sbin/nologin
apache:x:48:48:Apache:/usr/share/httpd:/sbin/nologin
systemd-coredump:x:999:998:systemd Core Dumper:/:/sbin/nologin
systemd-timesync:x:998:997:systemd Time Synchronization:/:/sbin/nologin
systemd-network:x:192:192:systemd Network Management:/:/sbin/nologin
systemd-resolve:x:193:193:systemd Resolver:/:/sbin/nologin
dbus:x:81:81:System message bus:/:/sbin/nologin
polkitd:x:997:996:User for polkitd:/:/sbin/nologin
qemu:x:107:107:qemu user:/:/sbin/nologin
rtkit:x:172:172:RealtimeKit:/proc:/sbin/nologin
avahi:x:70:70:Avahi mDNS/DNS-SD Stack:/var/run/avahi-daemon:/sbin/nologin
usbmuxd:x:113:113:usbmuxd user:/:/sbin/nologin
radvd:x:75:75:radvd user:/:/sbin/nologin
openvpn:x:996:994:OpenVPN:/etc/openvpn:/sbin/nologin
geoclue:x:995:993:User for geoclue:/var/lib/geoclue:/sbin/nologin
rpc:x:32:32:Rpcbind Daemon:/var/lib/rpcbind:/sbin/nologin
nm-openconnect:x:994:991:NetworkManager user for OpenConnect:/:/sbin/nologin
colord:x:993:990:User for colord:/var/lib/colord:/sbin/nologin
nm-openvpn:x:992:989:Default user for running openvpn spawned by NetworkManager:/:/sb
sasauth:x:991:76:Sasauthd user:/run/sasauthd:/sbin/nologin
abrt:x:173:173:/:etc/abrt:/sbin/nologin
rpcuser:x:29:29:RPC Service User:/var/lib/nfs:/sbin/nologin
pulse:x:171:171:PulseAudio System Daemon:/var/run/pulse:/sbin/nologin
setroubleshoot:x:990:984:/:var/lib/setroubleshoot:/sbin/nologin

```

```

gdm:x:42:42:/:var/lib/gdm:/sbin/nologin
gnome-initial-setup:x:989:983:/:run/gnome-initial-setup:/sbin/nologin
sshd:x:74:74:Privilege-separated SSH:/var/empty/sshd:/sbin/nologin
chrony:x:988:982:/:var/lib/chrony:/sbin/nologin
tss:x:59:59:Account used by the trousers package to sandbox the tcsd daemon:/dev/null
tcpdump:x:72:72:/:/sbin/nologin
marissa:x:1000:1000:Marissa:/home/marissa:/bin/bash
bozo:x:666:1001:/:home/bozo:/bin/false

```


13. No, we weren't able to login successfully into the "bozo" user account.

```
Fedora 26 (Workstation Edition)
Kernel 4.16.11-100.fc26.x86_64 on an x86_64 (tty5)

server13 login: bozo
Password: _
```

```
Fedora 26 (Workstation Edition)
Kernel 4.16.11-100.fc26.x86_64 on an x86_64 (tty5)

server13 login: _
```

- 14.

```
marissa:x:1000:1000:Marissa:/home/marissa:/bin/bash
bozo:x:666:1001::/home/bozo:/bin/false
[root@server13 ~]#
```

- 15.

```
[root@server13 ~]# chsh -s /bin/bash bozo
Changing shell for bozo.
Shell changed.
```

16. Yes, we were able to login successfully into the "bozo" user account.

```
Fedora 26 (Workstation Edition)
Kernel 4.16.11-100.fc26.x86_64 on an x86_64 (tty5)

server13 login: bozo
Password:
Last login: Wed Nov 25 08:12:43 on tty5
[bozo@server13 ~]$
```

- 17.

```
[bozo@server13 ~]$ exit_
```

```
Fedora 26 (Workstation Edition)
Kernel 4.16.11-100.fc26.x86_64 on an x86_64 (tty5)

server13 login:
```

18.

```
[root@server13 ~]# chsh -s /bin/bash bozo
Changing shell for bozo.
Shell changed.
[root@server13 ~]#
```

19.

```
[root@server13 ~]# exit
```

```
Fedora 26 (Workstation Edition)
Kernel 4.16.11-100.fc26.x86_64 on an x86_64 (tty2)

server13 login:
```

Project 10.9 (p.469-470):

1.

```
Fedora 26 (Workstation Edition)
Kernel 4.16.11-100.fc26.x86_64 on an x86_64 (tty2)

server13 login: root
Password:
Last login: Wed Nov 25 08:21:25 on tty2
[root@server13 ~]#
```

2.

```
[root@server13 ~]# vi /etc/group_
```

```
polkitd:x:996:
kvm:x:36:gemu
gemu:x:107:
cgred:x:995:
rtkit:x:172:
avahi:x:70:
usbmuxd:x:113:
radvd:x:75:
openvpn:x:994:
dip:x:40:
geoclue:x:993:
ssh_keys:x:992:
rpc:x:32:
nm-openconnect:x:991:
colord:x:990:
nm-openvpn:x:989:
saslauth:x:76:
libvirt:x:988:
abrt:x:173:
rpcuser:x:29:
pulse-access:x:987:
pulse-rt:x:986:
pulse:x:171:
brlapi:x:985:
setroubleshoot:x:984:
gdm:x:42:
gnome-initial-setup:x:983:
sshd:x:74:
slocate:x:21:
chrony:x:982:
tss:x:59:
tcpdump:x:72:
marissa:x:1000:
jackuser:x:981:
bozoette:x:1001:
groupies:x:1234:root,bozoette_
-- INSERT --
```

```
marissa:x:1000:
jackuser:x:981:
bozoette:x:1001:
groupies:x:1234:root,bozoette
:wq_
```

```
"/etc/group" 70L, 994C written
[root@server13 ~]# _
```

3.

```
Fedora 26 (Workstation Edition)
Kernel 4.16.11-100.fc26.x86_64 on an x86_64 (tty5)

server13 login: bozoette
Password:
[bozoette@server13 ~]$
```

4. The user “bozoette” is a member of the “groupies” group.

```
[bozoette@server13 ~]$ groups
bozoette groupies
```

5. The user “bozoette” has a primary group called “bozoette”.

```
[bozoette@server13 ~]$ id
uid=666(bozoette) gid=1001(bozoette) groups=1001(bozoette),1234(groupies) context=unconfined_u:unconfined_r:unconfined_t:s0-s0:c0.c1023
```

6.

```
[bozoette@server13 ~]$ touch file1
[bozoette@server13 ~]$ _
```

7. Concerning “file1”, the owner and the group owner of this file are both “bozoette”.

```
[bozoette@server13 ~]$ ls -l
total 0
-rw-rw-r--. 1 bozoette bozoette 0 Nov 25 18:46 file1
[bozoette@server13 ~]$ _
```

8.

```
[bozoette@server13 ~]$ newgrp groupies
[bozoette@server13 ~]$ _
```

9.

```
[bozoette@server13 ~]$ touch file2
[bozoette@server13 ~]$
```

10. Concerning “file2”, the owner is the user “bozoette” and the group owner is “groupies” for this file.

```
[bozoette@server13 ~]$ ls -l
total 0
-rw-rw-r--. 1 bozoette bozoette 0 Nov 25 18:46 file1
-rw-r--r--. 1 bozoette groupies 0 Nov 25 19:03 file2
[bozoette@server13 ~]$ _
```

- 11.

```
[bozoette@server13 ~]$ exit
exit
[bozoette@server13 ~]$ exit
```

```
Fedora 26 (Workstation Edition)
Kernel 4.16.11-100.fc26.x86_64 on an x86_64 (tty5)
server13 login: _
```

- 12.

```
"/etc/group" 70L, 994C written
[root@server13 ~]#
```

13. It is “file2” that is edited by the `groupdel` command.

```
[root@server13 ~]# groupdel groupies
[root@server13 ~]#
```

- 14.

```
[root@server13 ~]# exit_
```

```
Fedora 26 (Workstation Edition)
Kernel 4.16.11-100.fc26.x86_64 on an x86_64 (tty2)
server13 login:
```

Discovery Exercise 6 (p.472):

a)

```
[root@server13 ~]# useradd -u 733 -c "accounting manager" -p Gxj234 bsmith
```

```
[root@server13 ~]# cat /etc/passwd
root:x:0:0:root:/root:/bin/bash
bin:x:1:1:bin:/bin:/sbin/nologin
daemon:x:2:2:daemon:/sbin:/sbin/nologin
adm:x:3:4:adm:/var/adm:/sbin/nologin
lp:x:4:7:lp:/var/spool/lpd:/sbin/nologin
sync:x:5:0:sync:/sbin:/bin/sync
shutdown:x:6:0:shutdown:/sbin:/sbin/shutdown
halt:x:7:0:halt:/sbin:/sbin/halt
mail:x:8:12:mail:/var/spool/mail:/sbin/nologin
operator:x:11:0:operator:/root:/sbin/nologin
games:x:12:100:games:/usr/games:/sbin/nologin
ftp:x:14:50:FTP User:/var/ftp:/sbin/nologin
nobody:x:99:99:Nobody:/:/sbin/nologin
apache:x:48:48:Apache:/usr/share/httpd:/sbin/nologin
systemd-coredump:x:999:998:systemd Core Dumper:/:/sbin/nologin
systemd-timesync:x:998:997:systemd Time Synchronization:/:/sbin/nologin
systemd-network:x:192:192:systemd Network Management:/:/sbin/nologin
systemd-resolve:x:193:193:systemd Resolver:/:/sbin/nologin
dbus:x:81:81:System message bus:/:/sbin/nologin
polkitd:x:997:996:User for polkitd:/:/sbin/nologin
qemu:x:107:107:qemu user:/:/sbin/nologin
rtkit:x:172:172:RealtimeKit:/proc:/sbin/nologin
avahi:x:70:70:Avahi mDNS/DNS-SD Stack:/var/run/avahi-daemon:/sbin/nologin
usbmuxd:x:113:113:usbmuxd user:/:/sbin/nologin
radvd:x:75:75:radvd user:/:/sbin/nologin
openvpn:x:996:994:OpenVPN:/etc/openvpn:/sbin/nologin
geoclue:x:995:993:User for geoclue:/var/lib/geoclue:/sbin/nologin
rpc:x:32:32:Rpcbind Daemon:/var/lib/rpcbind:/sbin/nologin
nm-openconnect:x:994:991:NetworkManager user for OpenConnect:/:/sbin/nologin

colord:x:993:990:User for colord:/var/lib/colord:/sbin/nologin
nm-openvpn:x:992:989:Default user for running openvpn spawned by NetworkManager:/:/sbin/nologin
sasauth:x:991:76:Sasauthd user:/run/sasauthd:/sbin/nologin
abrt:x:173:173:/:etc/abrt:/sbin/nologin
rpcuser:x:29:29:RPC Service User:/var/lib/nfs:/sbin/nologin
pulse:x:171:171:PulseAudio System Daemon:/var/run/pulse:/sbin/nologin
setroubleshoot:x:990:984:/:var/lib/setroubleshoot:/sbin/nologin
gdm:x:42:42:/:var/lib/gdm:/sbin/nologin
gnome-initial-setup:x:989:983:/:run/gnome-initial-setup:/sbin/nologin
sshd:x:74:74:Privilege-separated SSH:/var/empty/sshd:/sbin/nologin
chrony:x:988:982:/:var/lib/chrony:/sbin/nologin
tss:x:59:59:Account used by the trousers package to sandbox the tcsd daemon:/dev/null:/sbin/nologin
tcpdump:x:72:72:/:/sbin/nologin
marissa:x:1000:1000:Marissa:/home/marissa:/bin/bash
bozoette:x:666:1001:/:home/bozoette:/bin/bash
bsmith:x:733:1002:accounting manager:/home/bsmith:/bin/bash
```

b)

```
[root@server13 ~]# userdel jdoe
```

```
[root@server13 ~]# cat /etc/passwd
root:x:0:0:root:/root:/bin/bash
bin:x:1:1:bin:/bin:/sbin/nologin
daemon:x:2:2:daemon:/sbin:/sbin/nologin
adm:x:3:4:adm:/var/adm:/sbin/nologin
lp:x:4:7:lp:/var/spool/lpd:/sbin/nologin
sync:x:5:0:sync:/sbin:/bin/sync
shutdown:x:6:0:shutdown:/sbin:/sbin/shutdown
halt:x:7:0:halt:/sbin:/sbin/halt
mail:x:8:12:mail:/var/spool/mail:/sbin/nologin
operator:x:11:0:operator:/root:/sbin/nologin
games:x:12:100:games:/usr/games:/sbin/nologin
ftp:x:14:50:FTP User:/var/ftp:/sbin/nologin
nobody:x:99:99:Nobody:/:/sbin/nologin
apache:x:48:48:Apache:/usr/share/httpd:/sbin/nologin
systemd-coredump:x:999:998:systemd Core Dumper:/:/sbin/nologin
systemd-timesync:x:998:997:systemd Time Synchronization:/:/sbin/nologin
systemd-network:x:192:192:systemd Network Management:/:/sbin/nologin
systemd-resolve:x:193:193:systemd Resolver:/:/sbin/nologin
dbus:x:81:81:System message bus:/:/sbin/nologin
polkitd:x:997:996:User for polkitd:/:/sbin/nologin
qemu:x:107:107:qemu user:/:/sbin/nologin
rtkit:x:172:172:RealtimeKit:/proc:/sbin/nologin
avahi:x:70:70:Avahi mDNS/DNS-SD Stack:/var/run/avahi-daemon:/sbin/nologin
usbmuxd:x:113:113:usbmuxd user:/:/sbin/nologin
radvd:x:75:75:radvd user:/:/sbin/nologin
openvpn:x:996:994:OpenVPN:/etc/openvpn:/sbin/nologin
geoclue:x:995:993:User for geoclue:/var/lib/geoclue:/sbin/nologin
rpc:x:32:32:Rpcbind Daemon:/var/lib/rpcbind:/sbin/nologin
nm-openconnect:x:994:991:NetworkManager user for OpenConnect:/:/sbin/nologin
colord:x:993:990:User for colord:/var/lib/colord:/sbin/nologin
nm-openvpn:x:992:989:Default user for running openvpn spawned by NetworkManager:/:/sbin/nologin
sasauth:x:991:76:Sasauthd user:/run/sasauthd:/sbin/nologin
abrt:x:173:173:/:etc/abrt:/sbin/nologin
rpcuser:x:29:29:RPC Service User:/var/lib/nfs:/sbin/nologin
pulse:x:171:171:PulseAudio System Daemon:/var/run/pulse:/sbin/nologin
setroubleshoot:x:990:984:/:var/lib/setroubleshoot:/sbin/nologin
```

```
gdm:x:42:42:/:var/lib/gdm:/sbin/nologin
gnome-initial-setup:x:989:983:/:run/gnome-initial-setup:/sbin/nologin
sshd:x:74:74:Privilege-separated SSH:/var/empty/sshd:/sbin/nologin
chrony:x:988:982:/:var/lib/chrony:/sbin/nologin
tss:x:59:59:Account used by the trousers package to sandbox the tcsd daemon:/dev/null:/sbin/nologin
tcpdump:x:72:72:/:/sbin/nologin
marissa:x:1000:1000:Marissa:/home/marissa:/bin/bash
bozoette:x:666:1001:/:home/bozoette:/bin/bash
bsmith:x:733:1002:accounting manager:/home/bsmith:/bin/bash
wjones:x:1001:1003:shipping:/home/wjones:/bin/bash
wjenkins:x:1002:1004:/:home/wjenkins:/bin/bash
```


c)

```
[root@server13 ~]# usermod -c "shipping" -e "2022-03-23" wjones
```

```
[root@server13 ~]# cat /etc/shadow
root:$6$3s5xDiXqC6xSULQm$K10mkhaC.GCaLzLsy1RkKvKjYg1heUI2ZRX4zsH6x6We.j1MrQSz4Gw17w9LiKuFxpfgmaC11a1
faNrW4UrN10::0:99999:7:::
bin:*:17206:0:99999:7:::
daemon:*:17206:0:99999:7:::
adm:*:17206:0:99999:7:::
lp:*:17206:0:99999:7:::
sync:*:17206:0:99999:7:::
shutdown:*:17206:0:99999:7:::
halt:*:17206:0:99999:7:::
mail:*:17206:0:99999:7:::
operator:*:17206:0:99999:7:::
games:*:17206:0:99999:7:::
ftp:*:17206:0:99999:7:::
nobody:*:17206:0:99999:7:::
apache:!!:18522:::
systemd-coredump:!!:18522:::
systemd-timesync:!!:18522:::
systemd-network:!!:18522:::
systemd-resolve:!!:18522:::
dbus:!!:18522:::
polkitd:!!:18522:::
qemu:!!:18522:::
rtkit:!!:18522:::
avahi:!!:18522:::
usbmuxd:!!:18522:::
radvd:!!:18522:::
openvpn:!!:18522:::
geoclue:!!:18522:::
rpc:!!:18522:0:99999:7:::
nm-openconnect:!!:18522:::
colord:!!:18522:::
nm-openvpn:!!:18522:::
saslauth:!!:18522:::
abrt:!!:18522:::
rpcuser:!!:18522:::
pulse:!!:18522:::
```

```
setroubleshoot:!!:18522:::
gdm:!!:18522:::
gnome-initial-setup:!!:18522:::
sshd:!!:18522:::
chrony:!!:18522:::
tss:!!:18522:::
tcpdump:!!:18522:::
marissa:$6$RZmEaUJcUMFsP1bU$AhmsQBhvdSHC791wL8bshh7jD8XhT3WGOaydNDtC0pD/fkIjYmv77C8pNo8T98tIHISZjJow
lSuuF2XN6pSxk1:18523:0:99999:7:::
bozoette:$6$yRMzMW.3e.4IPHP$HnzlQUd6a29w6ArppLnQhuxfRiYL0932B5ex2SxIv2cHFg1iFGeKGBud.G.0IYMcF5UZhKI
0EA00oeocP5Jo0/:18591:0:99999:7:::
bsmith:$6$R522xQpIRr1JUzGT$EOpID8LtPJYhDEvRyhEie1TGpv1omIGKKfwwmfEh8tqtBymUwbDA80UGypxJFweqOCPRPS96I
rIdgXNdR.FKU1:18592:0:99999:7:::
wjones:!!:18592:0:99999:7:19074:
wjenkins:!!:18592:0:99999:7:::
```

```
[root@server13 ~]# cat /etc/passwd
root:x:0:0:root:/root:/bin/bash
bin:x:1:1:bin:/bin:/sbin/nologin
daemon:x:2:2:daemon:/sbin:/sbin/nologin
adm:x:3:4:adm:/var/adm:/sbin/nologin
lp:x:4:7:lp:/var/spool/lpd:/sbin/nologin
sync:x:5:0:sync:/sbin:/bin/sync
shutdown:x:6:0:shutdown:/sbin:/sbin/shutdown
halt:x:7:0:halt:/sbin:/sbin/halt
mail:x:8:12:mail:/var/spool/mail:/sbin/nologin
operator:x:11:0:operator:/root:/sbin/nologin
games:x:12:100:games:/usr/games:/sbin/nologin
ftp:x:14:50:FTP User:/var/ftp:/sbin/nologin
nobody:x:99:99:Nobody:/:/sbin/nologin
apache:x:48:48:Apache:/usr/share/httpd:/sbin/nologin
systemd-coredump:x:999:998:systemd Core Dumper:/:/sbin/nologin
systemd-timesync:x:998:997:systemd Time Synchronization:/:/sbin/nologin
systemd-network:x:192:192:systemd Network Management:/:/sbin/nologin
systemd-resolve:x:193:193:systemd Resolver:/:/sbin/nologin
dbus:x:81:81:System message bus:/:/sbin/nologin
polkitd:x:997:996:User for polkitd:/:/sbin/nologin
qemu:x:107:107:qemu user:/:/sbin/nologin
rtkit:x:172:172:RealtimeKit:/proc:/sbin/nologin
avahi:x:70:70:Avahi mDNS/DNS-SD Stack:/var/run/avahi-daemon:/sbin/nologin
usbmuxd:x:113:113:usbmuxd user:/:/sbin/nologin
radvd:x:75:75:radvd user:/:/sbin/nologin
openvpn:x:996:994:OpenVPN:/etc/openvpn:/sbin/nologin
geoclue:x:995:993:User for geoclue:/var/lib/geoclue:/sbin/nologin
rpc:x:32:32:Rpcbind Daemon:/var/lib/rpcbind:/sbin/nologin
nm-openconnect:x:994:991:NetworkManager user for OpenConnect:/:/sbin/nologin
colord:x:993:990:User for colord:/var/lib/colord:/sbin/nologin
nm-openvpn:x:992:989:Default user for running openvpn spawned by NetworkManager:/:/sbin/nologin
sasauthd:x:991:76:Sasauthd user:/run/sasauthd:/sbin/nologin
abrt:x:173:173:/:etc/abrt:/sbin/nologin
rpcuser:x:29:29:RPC Service User:/var/lib/nfs:/sbin/nologin
pulse:x:171:171:PulseAudio System Daemon:/var/run/pulse:/sbin/nologin
setroubleshoot:x:990:984:/:var/lib/setroubleshoot:/sbin/nologin
```

```
gdm:x:42:42:/:var/lib/gdm:/sbin/nologin
gnome-initial-setup:x:989:983:/:run/gnome-initial-setup:/sbin/nologin
sshd:x:74:74:Privilege-separated SSH:/var/empty/sshd:/sbin/nologin
chrony:x:988:982:/:var/lib/chrony:/sbin/nologin
tss:x:59:59:Account used by the trousers package to sandbox the tcsd daemon:/dev/null:/sbin/nologin
tcpdump:x:72:72:/:/sbin/nologin
marissa:x:1000:1000:Marissa:/home/marissa:/bin/bash
bozoette:x:666:1001:/:home/bozoette:/bin/bash
bsmith:x:733:1002:accounting manager:/home/bsmith:/bin/bash
wjones:x:1001:1003:shipping:/home/wjones:/bin/bash
wjenkins:x:1002:1004:/:home/wjenkins:/bin/bash
```

d)

```
[root@server13 ~]# passwd -l wjenkins
Locking password for user wjenkins.
passwd: Success
```

```
Fedora 26 (Workstation Edition)
Kernel 4.16.11-100.fc26.x86_64 on an x86_64 (tty5)

server13 login: wjenkins
Password:
Login incorrect

server13 login: _
```

```
[root@server13 ~]# cat /etc/shadow
root:$6$3s5xDiXqC6xSULQm$K10mkhaC.GCaLzLsy1RkkUKjYg1heUI2ZR4zsH6x6We.j1MrQSz4Gw17w9LiKuFxp9fmaC11a1
faNrW4UrN10::0:99999:7:::
bin:!:17206:0:99999:7:::
daemon:!:17206:0:99999:7:::
adm:!:17206:0:99999:7:::
lp:!:17206:0:99999:7:::
sync:!:17206:0:99999:7:::
shutdown:!:17206:0:99999:7:::
halt:!:17206:0:99999:7:::
mail:!:17206:0:99999:7:::
operator:!:17206:0:99999:7:::
games:!:17206:0:99999:7:::
ftp:!:17206:0:99999:7:::
nobody:!:17206:0:99999:7:::
apache:!!:18522:::
systemd-coredump:!!:18522:::
systemd-timesync:!!:18522:::
systemd-network:!!:18522:::
systemd-resolve:!!:18522:::
dbus:!!:18522:::
polkitd:!!:18522:::
qemu:!!:18522:::
rtkit:!!:18522:::
avahi:!!:18522:::
usbmuxd:!!:18522:::
radvd:!!:18522:::
openvpn:!!:18522:::
geoclue:!!:18522:::
rpc:!!:18522:0:99999:7:::
nm-openconnect:!!:18522:::
colord:!!:18522:::
nm-openvpn:!!:18522:::
saslauth:!!:18522:::
abrt:!!:18522:::
rpcuser:!!:18522:::
pulse:!!:18522:::
```

```
setroubleshoot:!!:18522::::::
gdm:!!:18522::::::
gnome-initial-setup:!!:18522::::::
sshd:!!:18522::::::
chrony:!!:18522::::::
tss:!!:18522::::::
tcpdump:!!:18522::::::
marissa:$6$RZmEaUJcUMFsP1bU$AhmsQBhvdSHC791wL8bshh7jD8XhT3WG0aydNDtC0pD/fkIjYmv77C8pNo8T98tIHISZjJow
lSuuF2XN6pSxK1:18523:0:99999:7:::
bozoette:$6$yRMzMW.3e.4IPHPH$HnzlQUd6a29w6ArppLnQhuxfRigL0932B5ex2SxIv2cHFg1iFGeKGBud.G.0IYMcF5UZhKI
0EA00oeocP5Jo0/:18591:0:99999:7:::
bsmith:$6$Sr522xQpIRr1JUzgT$EOpID8LtPJYhDEvRyhEie1TGpvlomIGKKfwWmfEh8tqtBymUwbDA8OUGypxJFweqOCPRPS96I
rIdgXNdR.FKU1:18592:0:99999:7:::
wjones:!!:18592:0:99999:7::19074:
wjenkins:!!:18592:0:99999:7:::
```

e)

```
[root@server13 ~]# passwd bsmith
Changing password for user bsmith.
New password:
BAD PASSWORD: The password is shorter than 8 characters
Retype new password:
passwd: all authentication tokens updated successfully.
```

```
[root@server13 ~]# cat /etc/shadow
root:$6$3s5xDiXqC6xSULQm$K10mkhaC.GCaLzLsy1RkKUKjYgIheUI2ZRX4zsH6x6We.jlMrQSz4Gw17w9LiKuFxpfgmaC1la1
faNrW4UrN10::0:99999:7:::
bin:!:17206:0:99999:7:::
daemon:!:17206:0:99999:7:::
adm:!:17206:0:99999:7:::
lp:!:17206:0:99999:7:::
sync:!:17206:0:99999:7:::
shutdown:!:17206:0:99999:7:::
halt:!:17206:0:99999:7:::
mail:!:17206:0:99999:7:::
operator:!:17206:0:99999:7:::
games:!:17206:0:99999:7:::
ftp:!:17206:0:99999:7:::
nobody:!:17206:0:99999:7:::
apache:!!:18522::::::
systemd-coredump:!!:18522::::::
systemd-timesync:!!:18522::::::
systemd-network:!!:18522::::::
systemd-resolve:!!:18522::::::
dbus:!!:18522::::::
polkitd:!!:18522::::::
qemu:!!:18522::::::
rtkit:!!:18522::::::
avahi:!!:18522::::::
usbmuxd:!!:18522::::::
radvd:!!:18522::::::
openvpn:!!:18522::::::
geoclue:!!:18522::::::
rpc:!!:18522:0:99999:7:::
nm-openconnect:!!:18522::::::
```

```
colord:!!:18522:~~~~:
nm-openvpn:!!:18522:~~~~:
saslauth:!!:18522:~~~~:
abrt:!!:18522:~~~~:
rpcuser:!!:18522:~~~~:
pulse:!!:18522:~~~~:
setroubleshoot:!!:18522:~~~~:
gdm:!!:18522:~~~~:
gnome-initial-setup:!!:18522:~~~~:
sshd:!!:18522:~~~~:
chrony:!!:18522:~~~~:
tss:!!:18522:~~~~:
tcpdump:!!:18522:~~~~:
marissa:$6$RZmEaUcUMFsP1bU$AhmsQBhvdSHC79lwL8bshh7jD8XhT3WGOaydNDtC0pD/fkIjYmw77C8pNo8T98tIHISZjJolw
lSuuF2XN6pSxK1:18523:0:99999:7::
bozoette:$6$yRMzMW.3e.4IPHPH$HnzlQUd6a29w6ArppLnQhuxfRiyL0932B5ex2Sxlv2cHFg1iFGeKGBud.G.0IYMcF5UZhKI
0EA00oeocP5Jo0/:18591:0:99999:7::
bsmith:$6$uaymjql1ezTDW6BWh$28UBZETFSFo8LMtX6b6fA9gtAfmc4G2.uA.oLSJisP/kmGG2MGefnUroB9xUQ85UDTBV9t9L4
0.3pye.yOrwe1:18592:0:99999:7::
wjones:!!:18592:0:99999:7::19074:
wjenkins:!!:18592:0:99999:7::
```