

## Lab3

### 1. /etc/passwd

```
[root@72c1d27a1b36 ~]# tail -n 8 /etc/passwd
Ali:x:1001:1001:CEO:/home/Ali:/bin/bash
Salem:x:1002:1002:HR, Manager:/home/Salem:/bin/bash
Sara:x:1003:1003:Shipping:/home/Sara:/bin/bash
Deem:x:1004:1004:HR Specialist:/home/Deem:/bin/bash
Hanan:x:1005:1005:sales representative:/home/Hanan:/bin/bash
Naif:x:1006:1006:Shipping:/home/Naif:/bin/bash
Nourah:x:1007:1007:HR:/home/Nourah:/bin/bash
Khaled:x:1008:1008:sales representative:/home/Khaled:/bin/bash
[root@72c1d27a1b36 ~]#
```

### 2. /etc/shadow

```
[root@72c1d27a1b36 ~]# tail -n 8 /etc/shadow
Ali:$6$KTYeNN7QafBkYK71$2Dg1kmvIPKceF0famYIEPFad13jIy7aZndCQEOTBUDZi3faPfcrI8iwo8mkjFYpYVdeUeHlCFMe/Op3igXf1t/:19592:0:99999:7::20089:
Salem:$6$mkao2XkIkJmznyXK$xaGfIggL7rswwLbyb9Hhr7oYmRPA.D/bjv6vxuhjxHUR/Fwg1ZYFjj0nkHTSVrf.Ee7NTHZG154klGudJcGE0:19592:0:99999:7::20089:
Sara:$6$2OyQTrz1aqp82zG0$4x2D3wQfXrPsuefVL9sbXISuBwkS7lfqkH8AQJX98YFqTYaJuxZLwCTbjEnlD6gEU4dx7f9888FXwE83mVFXH.:19592:0:99999:7::20089:
Deem:$6$hs0anL56htBD57m$toZkZ0j7kyktdUhy0HChjkoLMPbav1vu9kyxHAtipeO9RYg61neLBVUIF1RC.c1Dvcawk7qenPCkegm1g9G6k1:19592:0:99999:7::20089:
Hanan:$6$5Qpv.42H2Cni4U37M$yKrvdkgk7UG1ORgc3KZ8mqWnrI82x6nx8djx9WEWLpcjevplmkP.9Bh312yUvyDDzn8Jdk1bbJ5GIh3UEavDp0:19592:0:99999:7::20089:
Naif:$6$Ejuj8nIpFiDLGcn.$PSzXL0rSXjtohuQ6iUr1iYccRtoeh8mRLDfVx99/pA0P6bESwrxJuyjN8FSnffqD2nwkPQv6U1vB6wboCKQ.:19592:0:99999:7::20089:
Nourah:$6$5bt2aq.ygaqOGKX$6mK14d4xFeMwPwXj/wq2/OdoeocURWiAdgegwoOjPLnxcjVJ9wjgR7d.g6E1wxMnJV6sr/RMSLR4EMVHFeF6R/:19592:0:99999:7::20089:
Khaled:$6$axULEbj3F5F/Ayw$/aoZ3IEY1ppArfeMwYwnw22qhQDhea0hNPCSccOakm07s4E4fM1bfwHnB3LOE/Lkzp6ryzms/kKgYdkaOIZP0:19592:0:99999:7::20089:
[root@72c1d27a1b36 ~]#
```

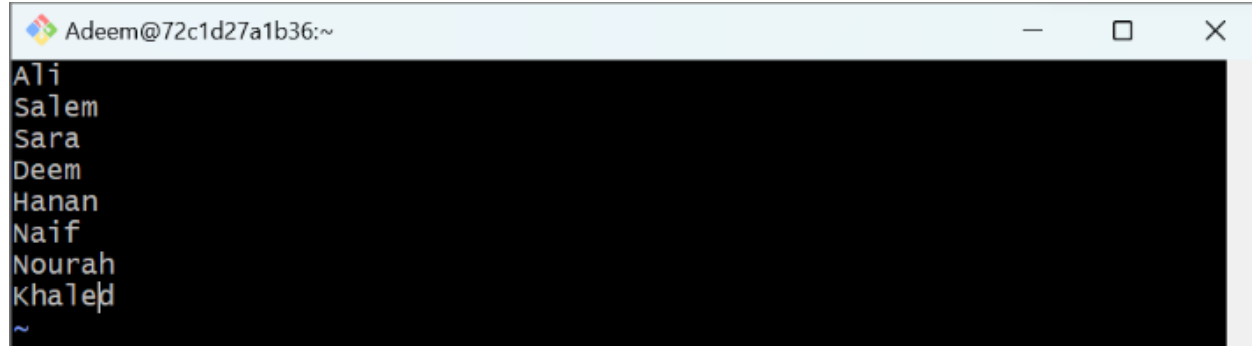
### 3. /etc/group

```
[root@72c1d27a1b36 ~]# tail -n 5 /etc/group
CEO:x:1010:Ali
Manager:x:1011:Salem
HR:x:1012:Salem,Nourah,Deem
Shipping:x:1013:Sara,Naif
Sales:x:1014:Hanan,Khaled
[root@72c1d27a1b36 ~]#
```

#### ○ Users Table:

1. I used the loop to add the users from file that I create “users.txt” with **useradd** command.

```
[root@72c1d27a1b36 ~]# vim users.txt
Adeem@72c1d27a1b36:~
```



```
Adeem@72c1d27a1b36:~
[root@72c1d27a1b36 ~]# cat users.txt
Ali
Salem
Sara
Deem
Hanan
Naif
Nourah
Khaled

[root@72c1d27a1b36 ~]# for i in `cat /root/users.txt`; do useradd $i; done

Ali:x:1001:1001::/home/Ali:/bin/bash
Salem:x:1002:1002::/home/Salem:/bin/bash
Sara:x:1003:1003::/home/Sara:/bin/bash
Deem:x:1004:1004::/home/Deem:/bin/bash
Hanan:x:1005:1005::/home/Hanan:/bin/bash
Naif:x:1006:1006::/home/Naif:/bin/bash
Nourah:x:1007:1007::/home/Nourah:/bin/bash
Khaled:x:1008:1008::/home/Khaled:/bin/bash
```

2. Then I go over the same file to set the password for each user with the same loop, **passwd** command.

```
Adeem@72c1d27a1b36:~
[root@72c1d27a1b36 ~]# for i in `cat /root/users.txt`; do passwd $i; done
Changing password for user Ali.
New password:
Retype new password:
passwd: all authentication tokens updated successfully.
Changing password for user Salem.
New password:
Retype new password:
passwd: all authentication tokens updated successfully.
Changing password for user Sara.
New password:
Retype new password:
passwd: all authentication tokens updated successfully.
Changing password for user Deem.
New password:
Retype new password:
passwd: all authentication tokens updated successfully.
Changing password for user Hanan.
New password:
Retype new password:
passwd: all authentication tokens updated successfully.
Changing password for user Naif.
New password:
Retype new password:
Sorry, passwords do not match.
New password:
Retype new password:
passwd: all authentication tokens updated successfully.
Changing password for user Nourah.
New password:
Retype new password:
passwd: all authentication tokens updated successfully.
Changing password for user Khaled.
New password:
Retype new password:
passwd: all authentication tokens updated successfully.
[root@72c1d27a1b36 ~]# cat /etc/passwd
root:x:0:0:root:/root:/bin/bash
bin:x:1:1:bin:/bin:/sbin/nologin
```

3. Set the comment according to role for each user, **usermod -c "comment" username**.

```
Adeem@72c1d27a1b36:~
[root@72c1d27a1b36 ~]# usermod -c "HR,Manager" Salem
[root@72c1d27a1b36 ~]# usermod -c "Shipping" Sara
[root@72c1d27a1b36 ~]# usermod -c "" Deem
usermod: no changes
[root@72c1d27a1b36 ~]# usermod -c "HR Specialist" Deem
[root@72c1d27a1b36 ~]# usermod -c "Sales representative" Hanan
[root@72c1d27a1b36 ~]# usermod -c "Shipping" Naif
[root@72c1d27a1b36 ~]# usermod -c "HR" Nourah
[root@72c1d27a1b36 ~]# usermod -c "Sales representative" Khaled
```

```
[root@72c1d27a1b36 ~]# tail -n 8 /etc/passwd
Ali:x:1001:1001:CEO:/home/Ali:/bin/bash
Salem:x:1002:1002:HR,Manager:/home/Salem:/bin/bash
Sara:x:1003:1003:Shipping:/home/Sara:/bin/bash
Deem:x:1004:1004:HR Specialist:/home/Deem:/bin/bash
Hanan:x:1005:1005:Sales representative:/home/Hanan:/bin/bash
Naif:x:1006:1006:Shipping:/home/Naif:/bin/bash
Nourah:x:1007:1007:HR:/home/Nourah:/bin/bash
Khaled:x:1008:1008:Sales representative:/home/Khaled:/bin/bash
[root@72c1d27a1b36 ~]#
```

4. Set the expiration date for all users to be 2025-01-01 using for loop, **usermod -e "date" username**.

```
Adeem@72c1d27a1b36:~
[root@72c1d27a1b36 ~]# for i in `cat /root/users.txt`; do usermod -e 2025-01-01 $i; done
[root@72c1d27a1b36 ~]# chage -l Ali
Last password change           : Aug 23, 2023
Password expires                : never
Password inactive              : never
Account expires                : Jan 01, 2025
Minimum number of days between password change : 0
Maximum number of days between password change : 99999
Number of days of warning before password expires : 7
[root@72c1d27a1b36 ~]# chage -l Salem
Last password change           : Aug 23, 2023
Password expires                : never
Password inactive              : never
Account expires                : Jan 01, 2025
Minimum number of days between password change : 0
Maximum number of days between password change : 99999
Number of days of warning before password expires : 7
[root@72c1d27a1b36 ~]# chage -l Sara
Last password change           : Aug 23, 2023
Password expires                : never
Password inactive              : never
Account expires                : Jan 01, 2025
Minimum number of days between password change : 0
Maximum number of days between password change : 99999
Number of days of warning before password expires : 7
[root@72c1d27a1b36 ~]# chage -l Nourah
bash: Nourah: command not found
[root@72c1d27a1b36 ~]# chage -l Nourah
Last password change           : Aug 23, 2023
Password expires                : never
Password inactive              : never
Account expires                : Jan 01, 2025
Minimum number of days between password change : 0
Maximum number of days between password change : 99999
Number of days of warning before password expires : 7
[root@72c1d27a1b36 ~]# chage -l Hanan
Last password change           : Aug 23, 2023
Password expires                : never
Password inactive              : never
Account expires                : Jan 01, 2025
Minimum number of days between password change : 0
Maximum number of days between password change : 99999
Number of days of warning before password expires : 7
```

## ○ Groups Table:

1. I applied the same way that I did with the users before, but with a new file called "groups.txt" with **groupadd** command.

```
[root@72c1d27a1b36 ~]# vim groups.txt
```

```
Adeem@72c1d27a1b36:~
CEO
Manager
HR
Shipping
Sales
~
~
~
~

[root@72c1d27a1b36 ~]# cat groups.txt
CEO
Manager
HR
Shipping
Sales
[root@72c1d27a1b36 ~]#

Adeem@72c1d27a1b36:~

[root@72c1d27a1b36 ~]# for i in `cat /root/groups.txt`; do groupadd $i; done
[root@72c1d27a1b36 ~]# tail -n 5 /etc/group
CEO:x:1010:
Manager:x:1011:
HR:x:1012:
Shipping:x:1013:
Sales:x:1014:
[root@72c1d27a1b36 ~]#
```

## 2. Set the password for CEO, HR, and SALES groups, **gpasswd groupname**.

```
[root@72c1d27a1b36 ~]# gpasswd CEO
Changing the password for group CEO
New Password:
Re-enter new password:
[root@72c1d27a1b36 ~]# gpasswd HR
Changing the password for group HR
New Password:
Re-enter new password:
[root@72c1d27a1b36 ~]# gpasswd Sales
Changing the password for group Sales
New Password:
Re-enter new password:
[root@72c1d27a1b36 ~]# tail -n 5 /etc/gshadow
CEO:$6$0xxS7f6v05WnD0b$dx1xpivXqhjAMg1lZg2bTUDjAMPNd4epUxxttc3N3XzD2Gvnz1aKm5RfZ1HncMgDKdFCXZfvSUjLBVGpKcFkz0::
Manager:::
HR:$6$aQwhb/etCoJbd06$Pmo1cLC2KOpzQKxiwcxF8Hcdw12lwb7cTBMkgfjSXQnp6CSnPi6af9M6Cwz1gxMLNhsJxBQQ0Q//ieGKQRUP1::
Shipping:::
Sales:$6$Gx/SS/Ur.jxMu8$Rk6scR5NkeKwK36hGpAhBQ7MPQazHvhtg02Hg6Lgk2VTM27lZgMIr.QCwt7wSzyLRME0Hgmm1KOaFsw0FpRve0::
aaa:$6$jDeKFez/ex/PyLG$RzXwh2/HpFRQhkEgEYV/dkpdJUSUcMHdzj6cL8yAgzha0I//sctFiSoY2duLvF8rsxJ0UNpFNVuRziiumTL3p1::
[root@72c1d27a1b36 ~]# groupdel aaa
[root@72c1d27a1b36 ~]# tail -n 5 /etc/gshadow
CEO:$6$0xxS7f6v05WnD0b$dx1xpivXqhjAMg1lZg2bTUDjAMPNd4epUxxttc3N3XzD2Gvnz1aKm5RfZ1HncMgDKdFCXZfvSUjLBVGpKcFkz0::
Manager:::
HR:$6$aQwhb/etCoJbd06$Pmo1cLC2KOpzQKxiwcxF8Hcdw12lwb7cTBMkgfjSXQnp6CSnPi6af9M6Cwz1gxMLNhsJxBQQ0Q//ieGKQRUP1::
Shipping:::
Sales:$6$Gx/SS/Ur.jxMu8$Rk6scR5NkeKwK36hGpAhBQ7MPQazHvhtg02Hg6Lgk2VTM27lZgMIr.QCwt7wSzyLRME0Hgmm1KOaFsw0FpRve0::
[root@72c1d27a1b36 ~]#
```

## 3. Add users to the groups, using **gpasswd -a username groupname** for single user, and using **gpasswd -M username, username... groupname** for multiple users.

```
[root@72c1d27a1b36 ~]# gpasswd -a Ali CEO
Adding user Ali to group CEO
[root@72c1d27a1b36 ~]# gpasswd -a Salem Manager
Adding user Salem to group Manager
[root@72c1d27a1b36 ~]# gpasswd -M Salem,Nourah,Deem HR
[root@72c1d27a1b36 ~]# gpasswd -a Salem,Nourah,Deem HR
gpasswd: user 'Salem,Nourah,Deem' does not exist
[root@72c1d27a1b36 ~]# gpasswd -M Sara,Naif Shipping
[root@72c1d27a1b36 ~]# gpasswd -M Hanan,Khalid Sales
gpasswd: user 'Khalid' does not exist
[root@72c1d27a1b36 ~]# gpasswd -M Hanan,Khaled Sales
[root@72c1d27a1b36 ~]# tail -n 5 /etc/group
CEO:x:1010:Ali
Manager:x:1011:Salem
HR:x:1012:Salem,Nourah,Deem
Shipping:x:1013:Sara,Naif
Sales:x:1014:Hanan,Khaled
[root@72c1d27a1b36 ~]#
```