

Linux Administration Day 2 Lab

Mohamed Emary

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1 Questions

Create a user account with the following attributes:

- Username: `islam`
- Fullname/comment: `Islam Askar`
- Password: `islam`

```
liveuser@localhost-live:~$ sudo useradd islam -p "islam" -c "Islam Askar"
liveuser@localhost-live:~$ cat /etc/passwd | grep islam
islam:x:1001:1001:Islam Askar:/home/islam:/bin/bash
```

Figure 1: Command Result

Create a user account with the following attributes:

- Username: `baduser`
- Full name/comment: `Bad User`
- Password: `baduser`

```
liveuser@localhost-live:~$ sudo useradd baduser -p "baduser" -c "Bad User"
liveuser@localhost-live:~$ cat /etc/passwd | grep baduser
baduser:x:1002:1002:Bad User:/home/baduser:/bin/bash
```

Figure 2: Command Result

As a superuser, set or change the password of root.

```
liveuser@localhost-live:~$ sudo passwd root
New password:
Retype new password:
passwd: password updated successfully
```

Figure 3: Command Result

Create a supplementary (secondary) group called `pgroup` with a group ID of 30000.

```
liveuser@localhost-live:~$ sudo groupadd pgroup --gid 30000
liveuser@localhost-live:~$ sudo cat /etc/group | grep pgroup
pgroup:x:30000:
```

Figure 4: Command Result

Create a supplementary group called `badgroup`.

```
liveuser@localhost-live:~$ sudo groupadd badgroup
liveuser@localhost-live:~$ sudo cat /etc/group | grep badgroup
badgroup:x:30001:
```

Figure 5: Command Result

Add the `islam` user to the `pgroup` group as a supplementary group.

```
liveuser@localhost-live:~$ sudo usermod islam -aG pgroup
liveuser@localhost-live:~$ sudo cat /etc/group | grep islam
islam:x:1001:
pgroup:x:30000:islam
```

Figure 6: Command Result

Modify the password of `islam`'s account to `password`.

```
liveuser@localhost-live:~$ sudo usermod islam --password "password"
```

Figure 7: Command Result

Modify `islam`'s account so the password expires after 30 days.

```
liveuser@localhost-live:~$ sudo chage --maxdays 30 islam
liveuser@localhost-live:~$ sudo cat /etc/shadow | grep islam
islam:islam:20102:0:30:7:::
```

Figure 8: Command Result

Modify `islam`'s account so the account expires after 30 days.

```
liveuser@localhost-live:~$ sudo chage islam --expiredate 2025-2-14
```

Figure 9: Command Result

Modify `islam`'s account so the password warning appears 10 days before expiration.

```
liveuser@localhost-live:~$ sudo chage islam --warndays 10
```

Figure 10: Command Result

Lock `baduser` account to prevent login.

```
liveuser@localhost-live:~$ sudo passwd --lock baduser
passwd: password changed.
```

Figure 11: Command Result

Delete `baduser` account.

```
liveuser@localhost-live:~$ sudo userdel baduser
```

Figure 12: Command Result

Delete the supplementary group called `badgroup`.

```
liveuser@localhost-live:~$ sudo groupdel badgroup
```

Figure 13: Command Result

Log out and log in as another user.

```
liveuser@localhost-live:~$ sudo su - islam
islam@localhost-live:~$ logout
```

Figure 14: Command Result

List the available shells in your system.

```
liveuser@localhost-live:~$ cat /etc/shells
/bin/sh
/bin/bash
/usr/bin/sh
/usr/bin/bash
/usr/bin/tmux
/bin/tmux
```

Figure 15: Command Result

List the environment variables in your current shell.

```
liveuser@localhost-live:~$ env
SHELL=/bin/bash
IMSETTINGS_INTEGRATE_DESKTOP=yes
SESSION_MANAGER=local/unix:@/tmp/.ICE-unix/1712,unix/unix:/tmp/.ICE-unix/1712
WINDOWID=4
COLORTERM=truecolor
XDG_CONFIG_DIRS=/home/liveuser/.config/kdedefaults:/etc/xdg:/usr/share/kde-settings/kde-profile/default/xdg
XDG_SESSION_PATH=/org/freedesktop/DisplayManager/Session0
HISTCONTROL=ignoredups
XDG_MENU_PREFIX=plasma-
HOSTNAME=localhost-live
HISTSIZE=1000
LANGUAGE=
SSH_AUTH_SOCK=/run/user/1000/ssh-agent.socket
SHELL_SESSION_ID=6262021694da45b5b03d998c008f7cff
MEMORY_PRESSURE_WRITE=c29tZSAyMDAwMDAgMjAwMDAwMAA=
XMODIFIERS=@im=none
DESKTOP_SESSION=plasma
GTK_RC_FILES=/etc/gtk/gtkrc:/home/liveuser/.gtkrc:/home/liveuser/.config/gtkrc
GDK_CORE_DEVICE_EVENTS=1
EDITOR=/usr/bin/nano
XDG_SEAT=seat0
PWD=/home/liveuser
XDG_SESSION_DESKTOP=KDE
LOGNAME=liveuser
XDG_SESSION_TYPE=wayland
```

Figure 16: Command Result

List all environment variables for the bash shell.

```
liveuser@localhost-live:~$ printenv
SHELL=/bin/bash
IMSETTINGS_INTEGRATE_DESKTOP=yes
SESSION_MANAGER=local/unix:@/tmp/.ICE-unix/1698,unix/unix:/tmp/.ICE-unix/1698
WINDOWID=4
COLORTERM=truecolor
XDG_CONFIG_DIRS=/home/liveuser/.config/kdedefaults:/etc/xdg:/usr/share/kde-settings/kde-profile/default/xdg
XDG_SESSION_PATH=/org/freedesktop/DisplayManager/Session0
HISTCONTROL=ignoredups
XDG_MENU_PREFIX=plasma-
HOSTNAME=localhost-live
HISTSIZE=1000
LANGUAGE=
SSH_AUTH_SOCK=/run/user/1000/ssh-agent.socket
SHELL_SESSION_ID=cc202136cebe4c7893e4cd68d2c9e59c
MEMORY_PRESSURE_WRITE=c29tZSAyMDAwMDAgMjAwMDAwMAA=
XMODIFIERS=@im=none
DESKTOP_SESSION=plasma
GTK_RC_FILES=/etc/gtk/gtkrc:/home/liveuser/.gtkrc:/home/liveuser/.config/gtkrc
GDK_CORE_DEVICE_EVENTS=1
EDITOR=/usr/bin/nano
XDG_SEAT=seat0
PWD=/home/liveuser
XDG_SESSION_DESKTOP=KDE
LOGNAME=liveuser
XDG_SESSION_TYPE=wayland
SYSTEMD_EXEC_PID=1737
XAUTHORITY=/run/user/1000/xauth_TsDoPP
GTK2_RC_FILES=/home/liveuser/.gtkrc-2.0-kde4
```

Figure 17: Command Result

List commands that can display the value of a specific variable.

```
liveuser@localhost-live:~$ echo $HOME  
/home/liveuser
```

Figure 18: Command Result

Display your current shell name.

```
liveuser@localhost-live:~$ echo $SHELL  
/bin/bash
```

Figure 19: Command Result