-

**№4**

*:*
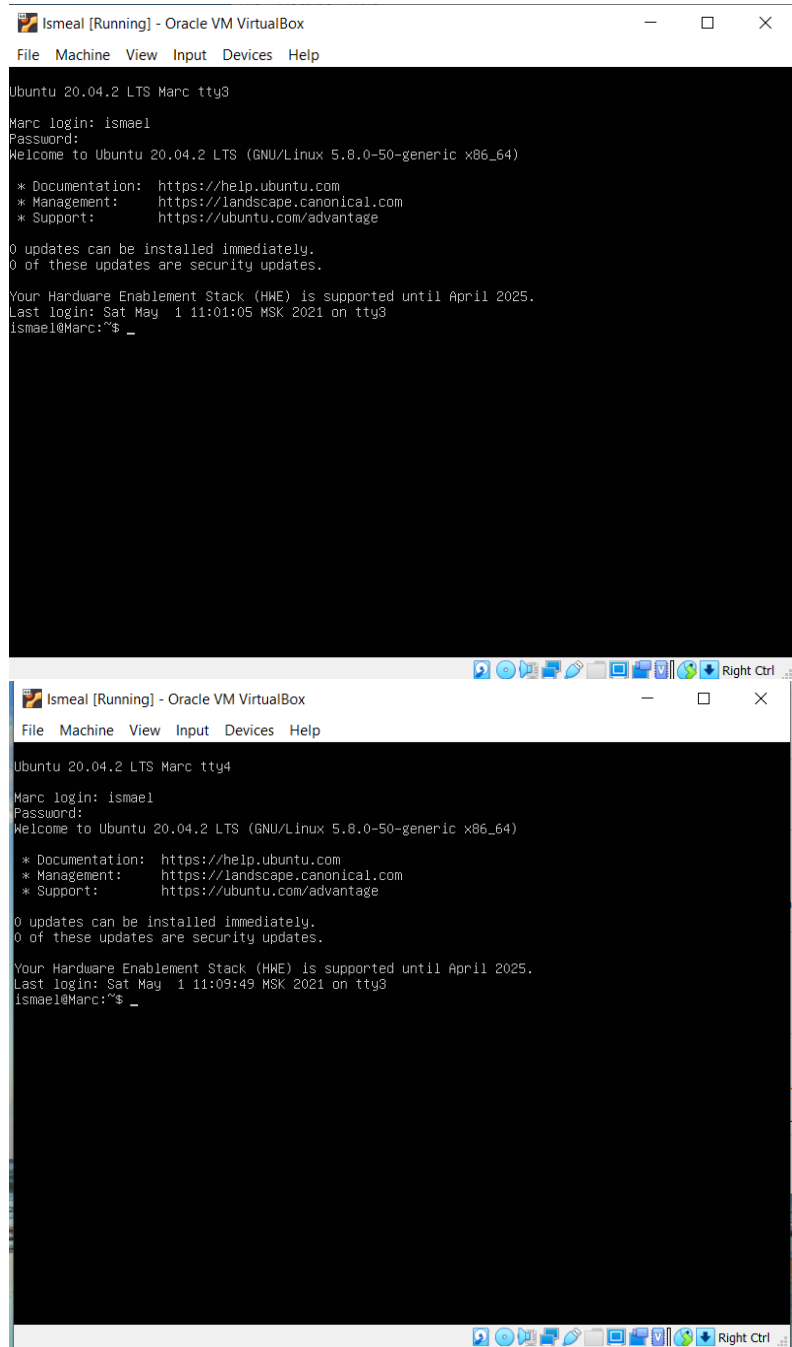
:         :    -02-20      2021 .

:

Linux,            -
· ######        :
1.             .   2.       .   3.
ctrl+alt+F3.         6
.   4.            .
alt+Fk,    k –     3    6 5.
.          ismael,
. 6.           .       logout
7.             .     (Alt+F2).

Ismeal [Running] - Oracle VM VirtualBox

File  Machine  View  Input  Devices  Help

```
Ubuntu 20.04.2 LTS Marc tty3

Marc login: ismael
Password:
Welcome to Ubuntu 20.04.2 LTS (GNU/Linux 5.8.0-50-generic x86_64)

 * Documentation:  https://help.ubuntu.com
 * Management:     https://landscape.canonical.com
 * Support:        https://ubuntu.com/advantage

0 updates can be installed immediately.
0 of these updates are security updates.

Your Hardware Enablement Stack (HWE) is supported until April 2025.
Last login: Sat May  1 11:01:05 MSK 2021 on tty3
ismael@Marc:~$ _
```

Right Ctrl



Ismeal [Running] - Oracle VM VirtualBox

File  Machine  View  Input  Devices  Help

```
Ubuntu 20.04.2 LTS Marc tty4

Marc login: ismael
Password:
Welcome to Ubuntu 20.04.2 LTS (GNU/Linux 5.8.0-50-generic x86_64)

 * Documentation:  https://help.ubuntu.com
 * Management:     https://landscape.canonical.com
 * Support:        https://ubuntu.com/advantage

0 updates can be installed immediately.
0 of these updates are security updates.

Your Hardware Enablement Stack (HWE) is supported until April 2025.
Last login: Sat May  1 11:09:49 MSK 2021 on tty3
ismael@Marc:~$ _
```
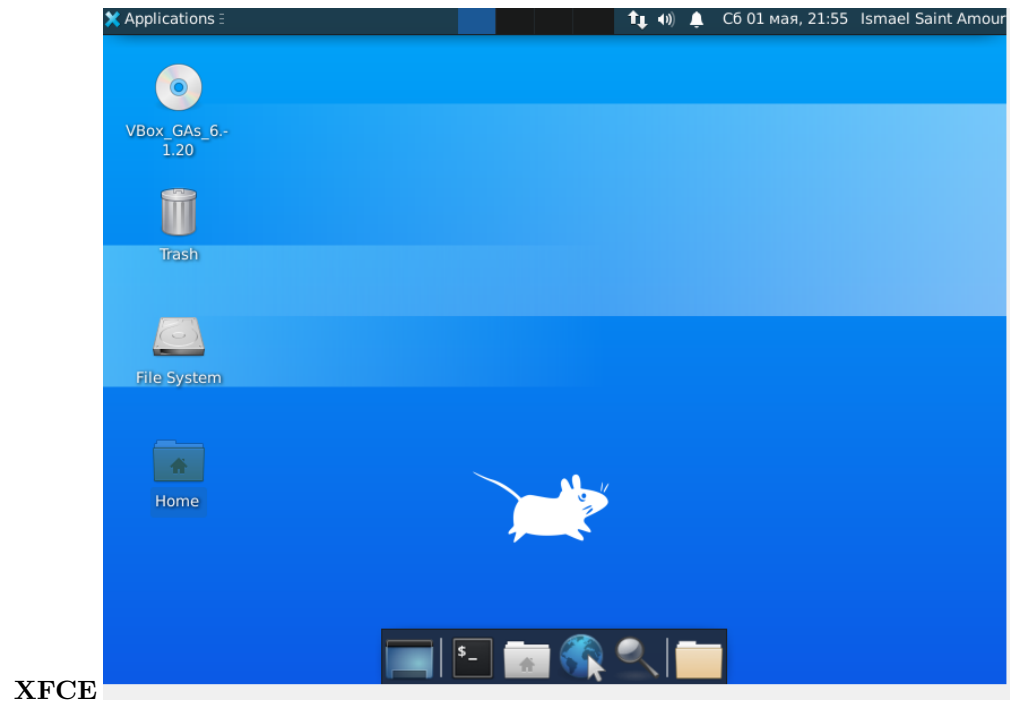
Right Ctrl

2

. **(GNOME, KDE, XFCE).**

\> (GNOME, KDE, XFCE)
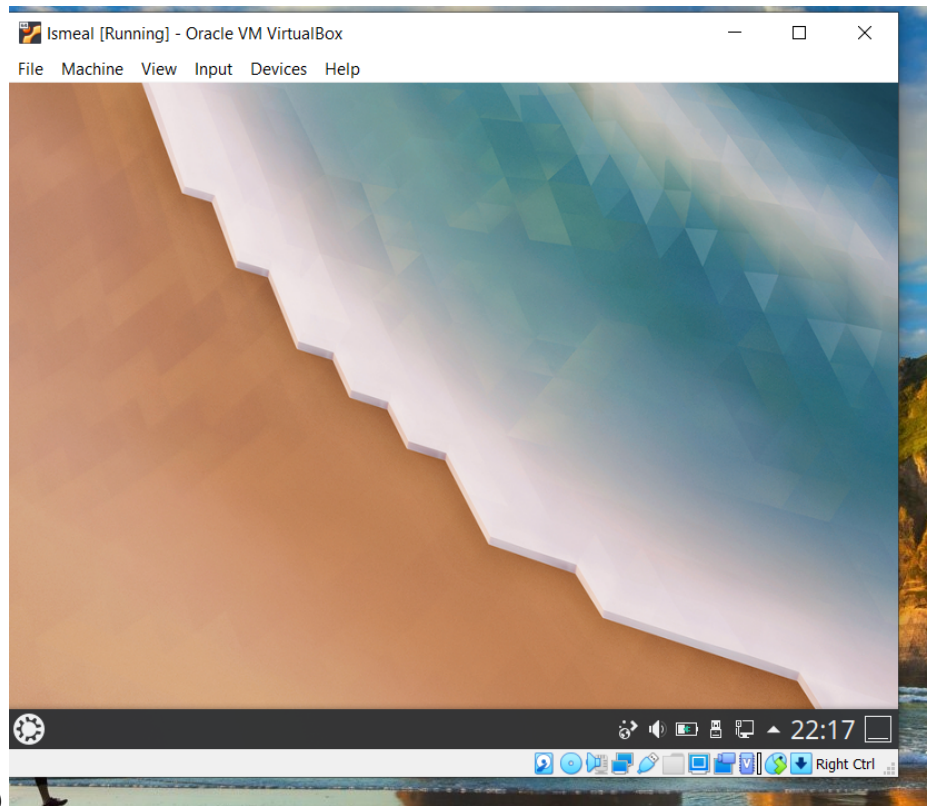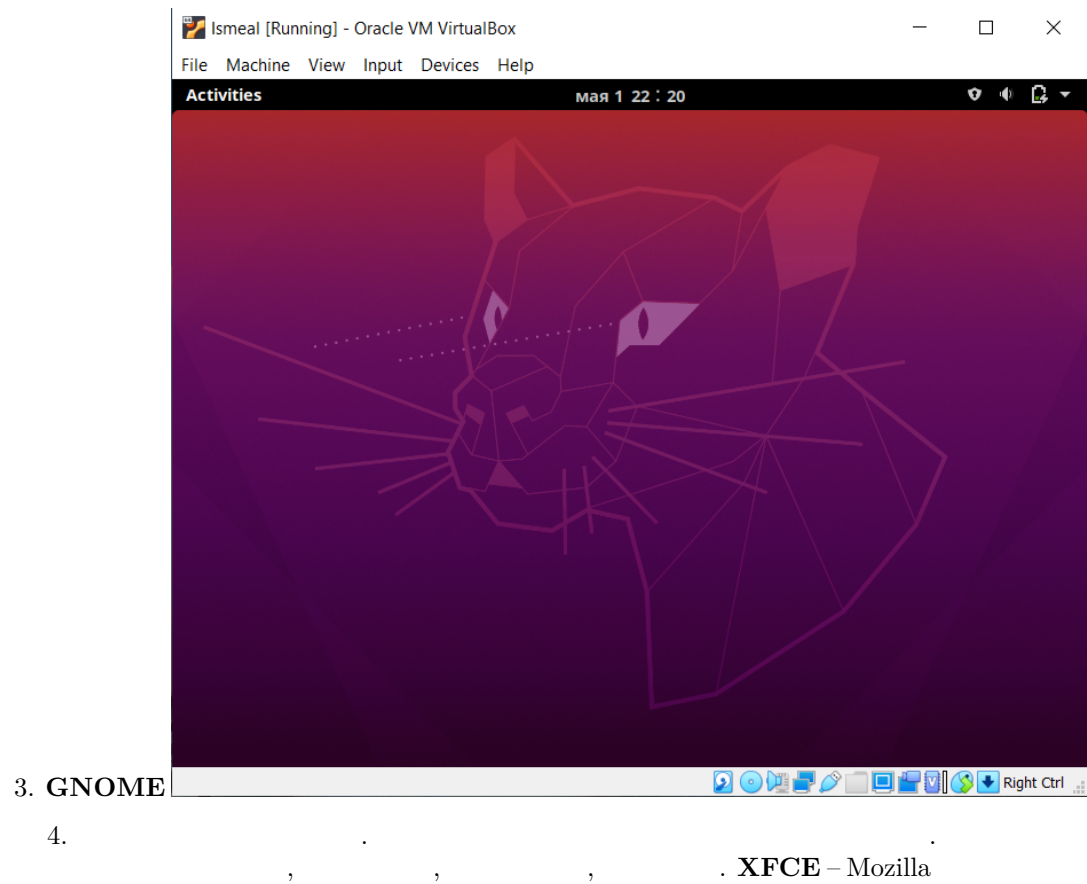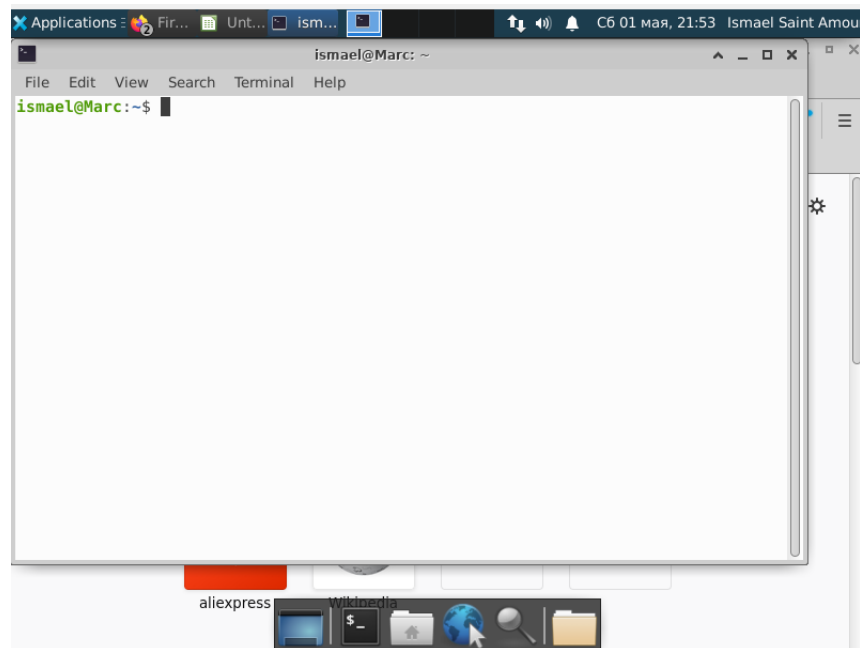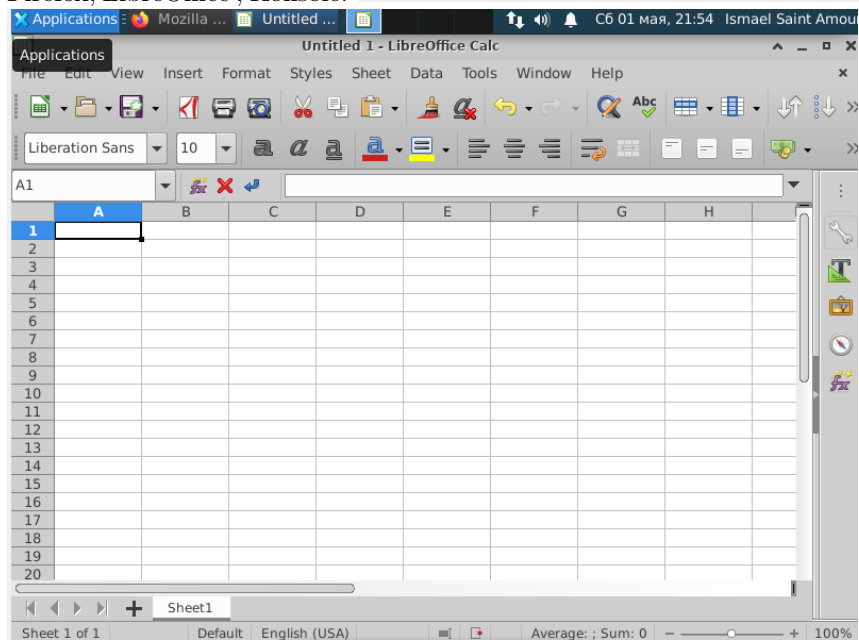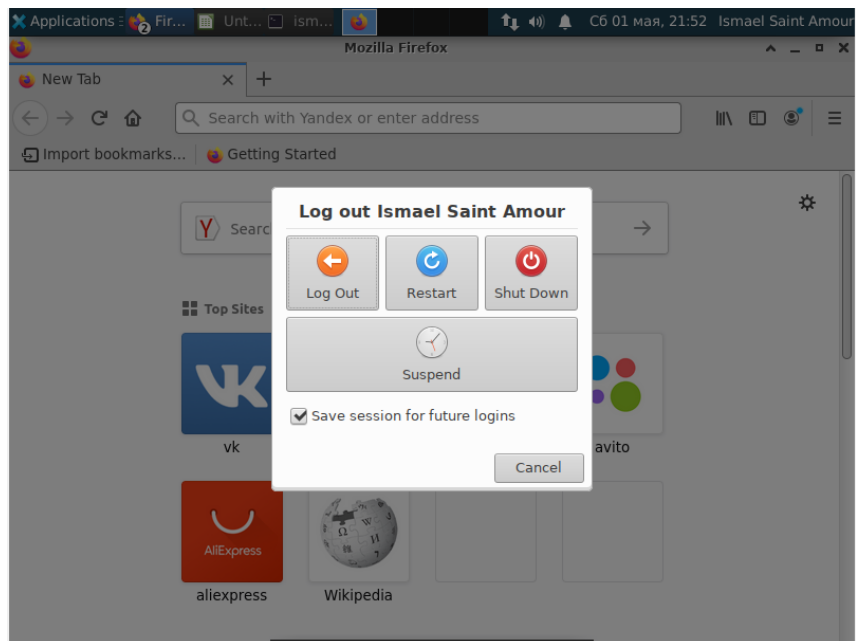
(Openbox). XFCE, GNOME, KDE. 1.

**XFCE**

2. **KDE (PLASMA)**

3. **GNOME**

4. _____.          _____.
_____, _____, _____, _____. **XFCE** – Mozilla

Firefox, LibreOffice , Konsole.
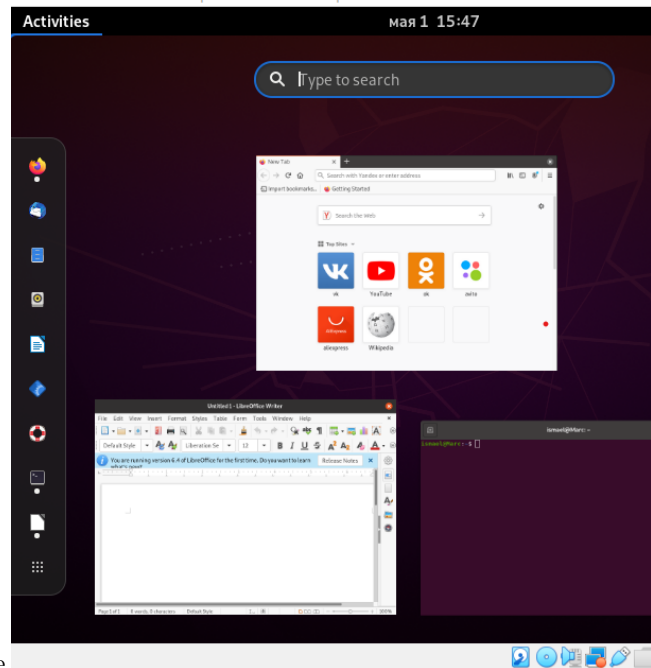
**GNOME**– Mozilla Firefox, LibreOffice , Konsole
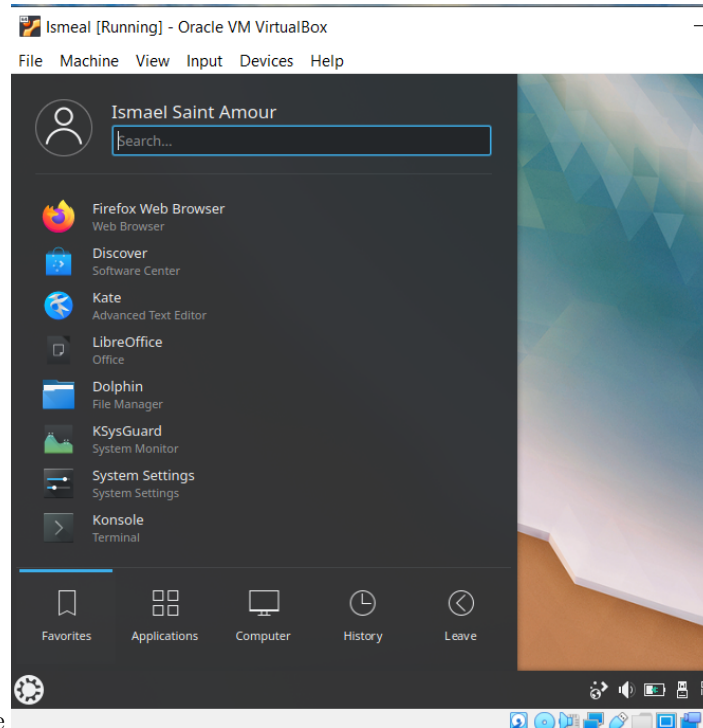
**KDE**– Mozilla Firefox, LibreOffice , Konsole
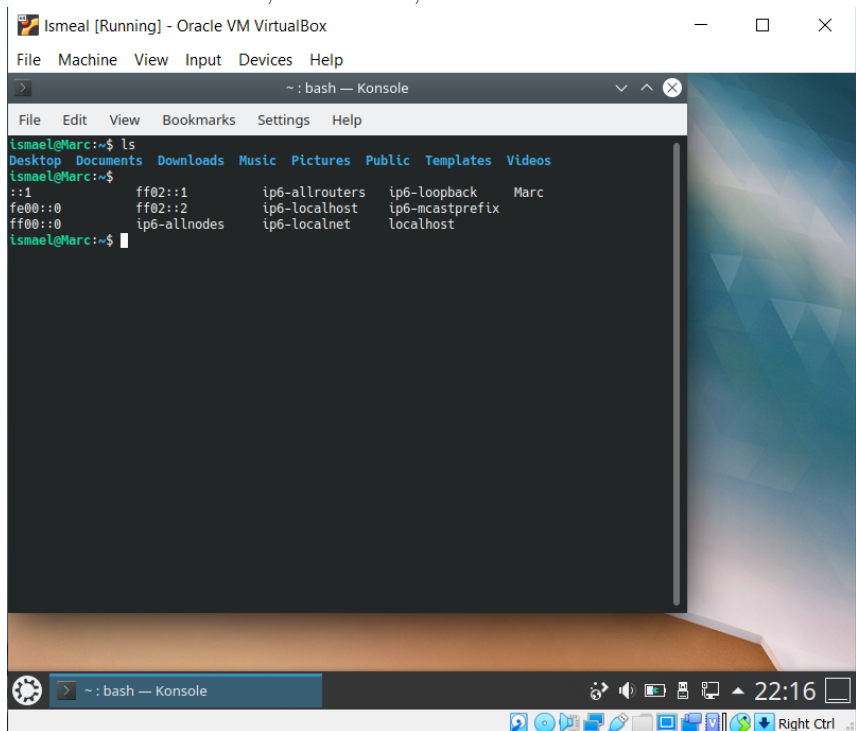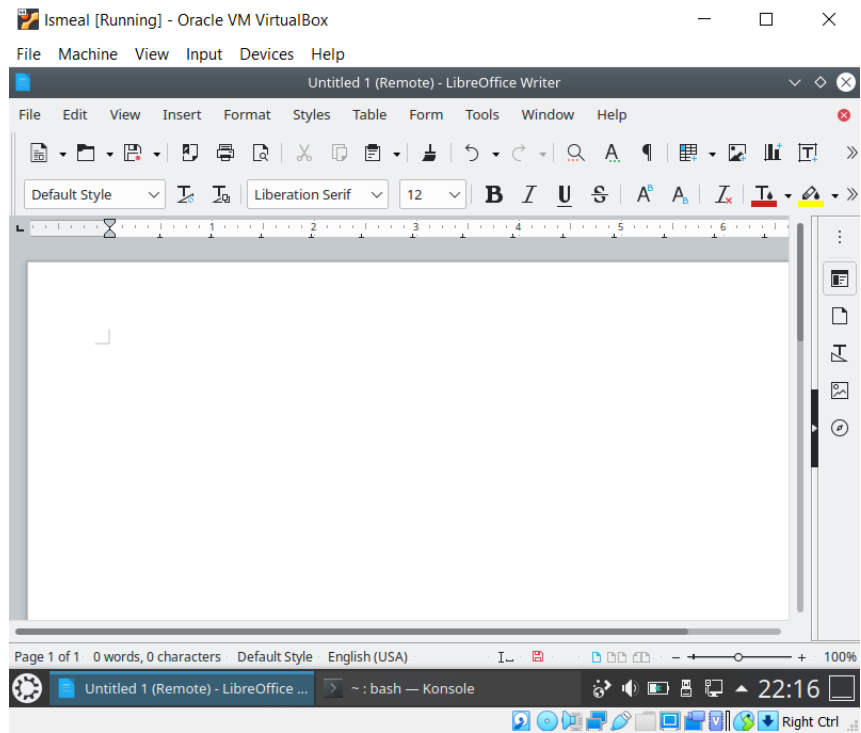
: Linux,
.                                                                    :

5.                    —            —      ,
      .        ,                                                      .
            .

6.                          —                                ,
            .

7.                          /etc/shadow,                                    .
                  .          passwd,                                          ,
      x    * (                                              ).

8.                                                          .                  ,
                                          .

9.                    Unix - root

10.                                            ,              ,                                    .

11.
            .                                                            ,
                                          .
                                    —                          .

12.                                            (Login Name),        (Password),
                  (User ID),                      (Group ID),
            (General Information),                (Home Dir),
      (Shell).

13. UID – User ID -                                             -
    0    65535,                                                    . GID – Group
ID –                       .
      ,                                               .
14. GECOS – General Information -                                  -
                      .                                    (      ,    ),        ,         .
15.                                       –                                                          .
                                          .                                  (      )               ,
               .                                                        ,               ,               ,
                      .
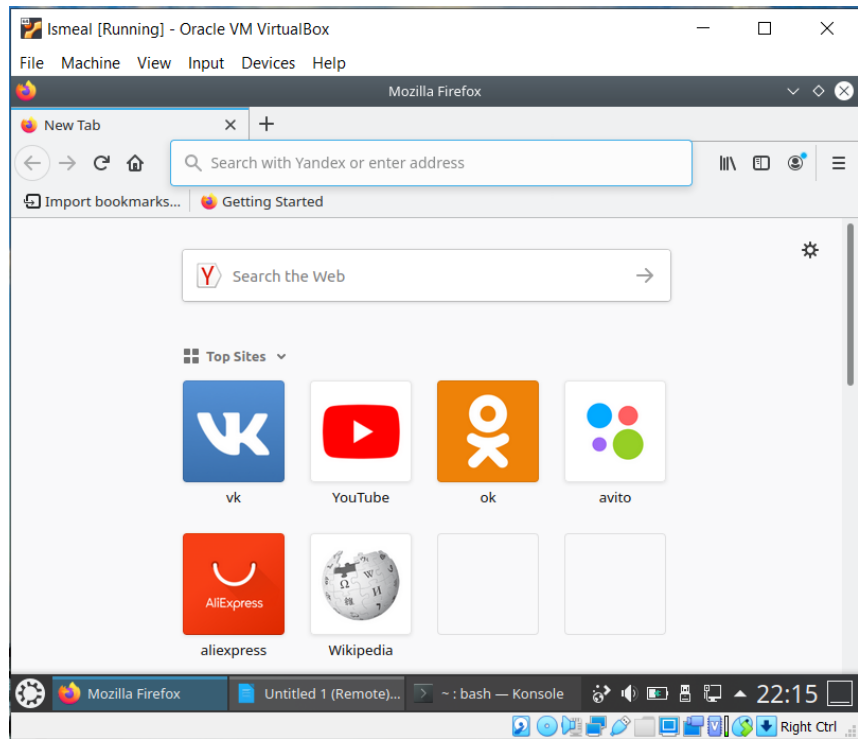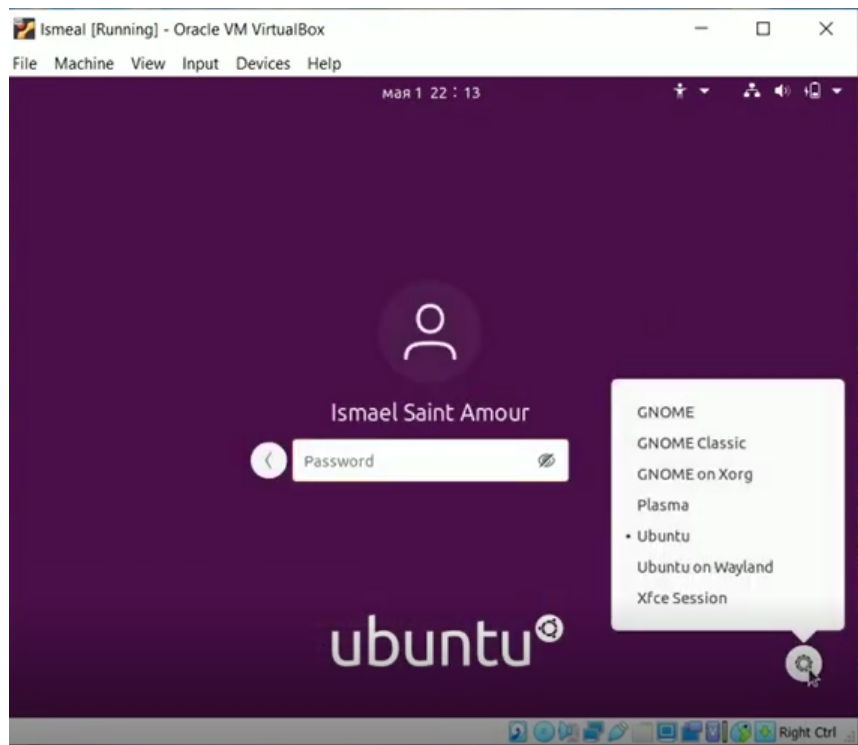16.                                     naburova.
17.                                                            ,
(                    ,                                              ).
18.          /etc/passwd                            .                                                 : lo-
    gin:password:UID:GID:GECOS:home:shell.
19.             ,          password                    *,                            .
20.                                  —                                                        .                        ,
        «           »                                  «               », . .                           «           » «           »
                .                                                          .
21.            getty                                                        .
                                          «login»                                   . Getty
                                              .
22.                      –                                                                          .
23.          - Toolkit (Tk, «                    », «                    »)—
                              ,                                                .
24.                  UNIX                                            :
      1. GTK+ (                 GIMP Toolkit) —
          GTK+                                      :

a)  GTK —                                                                        ;
b)  GDK —                                              .


  2. Qt —                                                                                              C++