

# Linphone

<https://www.raspberrypi.org/forums/viewtopic.php?p=890408#p890408>

This next part focuses on installing a GUI on top of Raspbian Lite. In order to have a GUI, we need these 4 things: 1. Display Server 2. Desktop Environment 3. Window Manager 4. Login Manager

1. Xorg Display Server 2. Raspberry Pi Desktop (RPD) or Lightweight X11 Desktop Environment (LXDE) or XFCE Desktop Environment (XFCE) or MATE Desktop Environment (MATE) 3. Openbox Window Manager (RPD/LXDE) or XFWM Window Manager (XFCE) or Marco Window Manager (MATE) 4. LightDM Login Manager

```
sudo apt-get install --no-install-recommends xserver-xorg xserver-xorg-legacy
```

#When not using login manager, install xinit:

```
sudo apt-get install --no-install-recommends xinit
```

Stripped down version of RPD (Raspberry Pi Desktop):

```
sudo apt-get install --no-install-recommends raspberrypi-ui-mods lxsession
```

optional:

pi-greeter : The Raspberry Pi LightDM login theme

rpd-icons : The Raspberry Pi Desktop icon theme

gtk2-engines-clearlookspix : GTK Theme Engine (used to render Raspberry Pi LightDM login/desktop theme properly)

Openbox WM is installed by default when using RPD.

with xinit, system starts in command line. When required, use startx to start GUI

Single application setup:

```
sudo apt-get install --no-install-recommends xserver-xorg
```

```
# sudo apt-get install xserver-xorg-input-evdev
```

```
sudo apt-get install --no-install-recommends xinit
```

```
sudo apt-get install openbox lxterminal
```

```
#sudo apt-get install lightdm
```

```
echo "exec openbox-session" | tee ~/.xinitrc
```

```
sudo apt-get install linphone
```

```
sudo dpkg-reconfigure xserver-xorg-legacy
```

set anybody

```
sudo vi /etc/X11/Xwrapper.config
```

```
allowed_users=anybody
```

```
needs_root_rights=yes
```

```
sudo usermod -a -G audio,tty,video,users pi
```

```
sudo vi /etc/xdg/openbox/autostart
```

```
/usr/bin/linphone & #set the program to start
```

```
#disable right-mousebutton in openbox:  
sudo vi /etc/xdg/openbox/rc.xml
```

```
#comment out these lines using <!-- and -->
```

```
<!--  
# <mousebind button="Right" action="Press">  
# <action name="Focus"/>  
# <action name="Raise"/>  
# <action name="ShowMenu"><menu>client-menu</menu></action>  
# </mousebind>  
-->
```

```
sudo vi /etc/systemd/system/kiosk.service
```

```
[Unit]  
Description=Kiosk  
  
[Service]  
Type=oneshot  
ExecStart=/usr/bin/sudo -u user /usr/bin/startx --  
  
[Install]  
WantedBy=multi-user.target
```

```
sudo systemctl enable kiosk  
sudo systemctl start kiosk
```

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