# 1.   Install Gnome in FreeBSD

Gnome is one of the most popular desktop environments. Gnome 3 is the latest version of this software. In this article, let us look at how to install Gnome 3 on FreeBSD 11.
FreeBSD 11 can be downloaded from this link. Install FreeBSD according to your requirements, and once the installation is complete, use the following steps to install Gnome3 desktop evironment.
You can find more details and documentation about Gnome 3 here.

Update the package list
```
# pkg update
```

Upgrade the packages, in case there are updates available
```
# pkg upgrade
```

Install the packages required.
```
# pkg install gnome-desktop gdm xorg xf86-video-fbdev
```

Add the following lines to /etc/rc.conf to enable mouse daemon, dbus daemon and hal daemon.
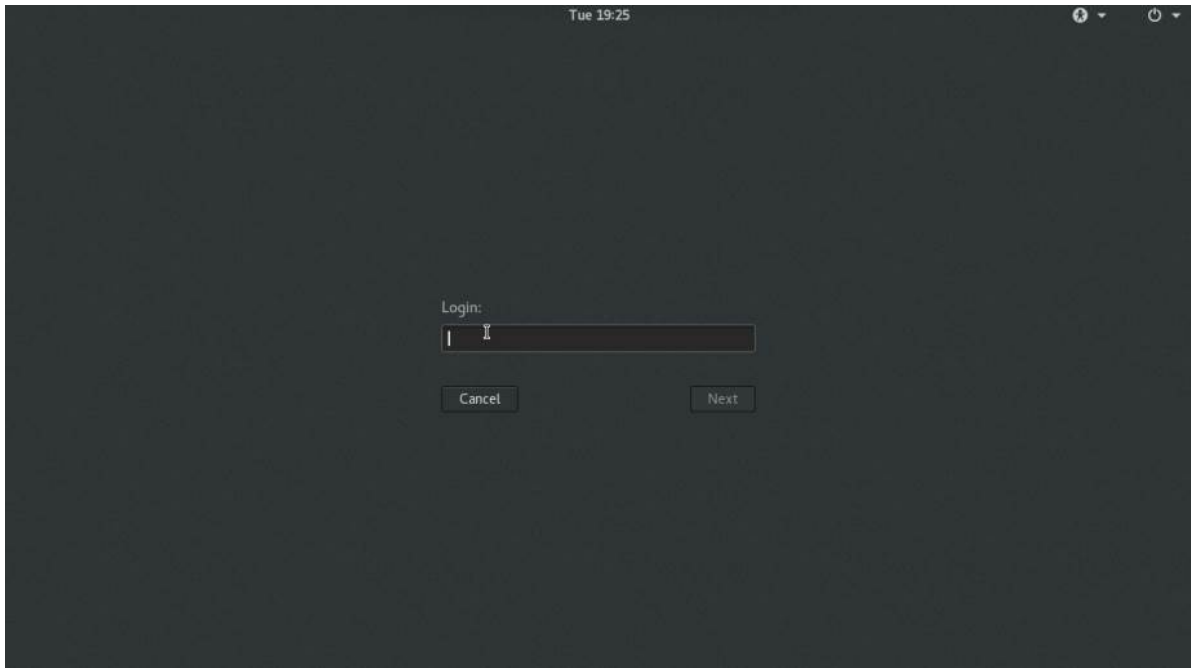```
gnome_enable="YES"
moused_enable="YES"
dbus_enable="YES"
hald_enable="YES"
gdm_enable="YES"
```

Reboot the machine. Now the machine will boot into GDM login screen, where you can login to Gnome 3  session. You will get a screen similar to the image below.

# 2. Climb privileges

Users you want to climb privileges

Wheel is famous for FreeBSD, if you want to need to use su command, you need to be member of wheel group, So pw groupadd get a groupName and -m get members of your group. Old style of the following command you needed to extra command.
```
# pw useradd wheel -m bernardo,pepe,john,Kate
```

# 3. FreeBSD as a Guest on VirtualBox™
The VirtualBox™ guest additions provide support for:
• Clipboard sharing.
• Mouse pointer integration.
• Host time synchronization.
• Window scaling.
• Seamless mode.
```
# pkg install virtualbox-ose-additions && make install clean
```
Add these lines to /etc/rc.conf:
```
vboxguest_enable="YES"
vboxservice_enable="YES"
```