

## VNC SERVER TUTORIAL

1) vncserver is a program for remote managing. It will be useful if one want to check graphics results from any vnc-clients ( from smartphone ), or simply work remotely ( install on both sides ):

```
#sudo apt-get install libvncserver-dev xtightvncviewer xfce4 xfce4-goodies tightvncserver autocutsel
```

autocutsel ensures proper clipboard pasting data from Windows client side on running Linux server

first start of vncserver for providing connections passwords:

```
#vncserver && vncserver -kill :1
```

2) starting graphical server enables remote signing in to system from clients:

sign in to remote system:

```
#ssh userName@IPv4Addr
```

start remote graphical server:

```
#vncserver
```

sign out:

```
#exit
```

3) sign to remote graphical server ( 1st session ):

```
#vncviewer IPv4Addr:1
```

4) first connection to graphical server needs setting graphical connection password

5) after finishing work close graphical server ( 1st session ):

```
#ssh userName@IPv4Addr
```

```
#vncserver -kill :1
```

6) in some cases there are blank screen after connecting, to fix that edit file \$HOME/.vnc/xstartup

```
#!/bin/sh
```

```
# Fix to make GNOME and GTK stuff work
```

```
export XKL_XMODMAP_DISABLE=1
```

```
unset SESSION_MANAGER
```

```
unset DBUS_SESSION_BUS_ADDRESS
```

```
# exec /etc/X11/xinit/xinitrc
```

```
xrdb $HOME/.Xresources
```

```
xsetroot -solid grey
```

```
xfce4-session &
```

```
# before Ubuntu 18.04:
```

```
# gnome-settings-daemon &
```

```
# Ubuntu 18.04 and later:
```

```
/usr/lib/gnome-settings-daemon/gsd-xsettings &
```

7) vncserver is quite configurable – f.e. default graphical server session geometry, changing active window with tab:

change default geometry at \$HOME( ~ ) directory file ( or touch new file if there are no such file ):

```
#vim .vncrc
```

```
$geometry = "1600x1024";
```

tab for active window:

```
# sudo vim ~/.config/xfce4/xfconf/xfce-perchannel-xml/xfce4-keyboard-shortcuts.xml
```

change line ~118 from:

```
# <property name="SuperTab" type="string" value="switch_window_key"/>
```

to line:

```
# <property name="&lt;Super&gt;Tab" type="empty"/>
```

restart remote graphical server

8) list active ongoing vnc graphical server sessions:

```
#ps -ef | grep vnc
```

9) copy text from client to server

```
#sudo aptitude install -y autocutsel
```

```
#vim ~/.vnc/xstartup
```

```
#autocutsel -s PRIMARY -fork
```