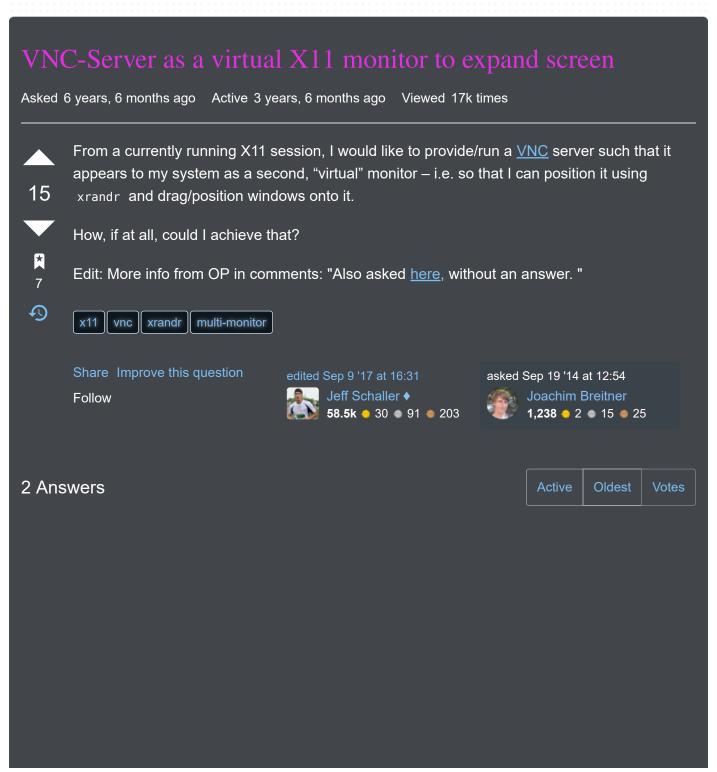


## Unix & Linux





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tl;dr: Force a "virtual" output of your gfx card to a display mode, and export that with x11vnc.





You can achieve this, but there are a few prerequisites:



- A graphics card with multi-head capabilities (= can render several "desktop" surfaces). Which is most cards these days.
- x11vnc , a mature software ( x11vnc ) to export X11 surfaces (among others) to VNC clients.

Most consumer cards these days can render several different outputs. Mine can do 3, out of the 5 that xrandr shows (eDP1,HDMI[12],DP[12]).

- Pick an unused output from | xrandr |, in my example HDMI2.
- Pick a resolution for the screen of the vnc client, and generate a mode:

```
$ cvt 1920 1080
# 1920x1080 59.96 Hz (CVT 2.07M9) hsync: 67.16 kHz; pclk: 173.00 MHz
Modeline "1920x1080 60.00" 173.00 1920 2048 2248 2576 1080 1083 1088 1120
-hsync +vsync
```

Add that mode to xrandr

```
xrandr --newmode "1920x1080 60" 173.00 1920 2048 2248 2576 1080 1083 1088
1120 -hsync +vsync
```

Put e.g. HDMI2 in that mode, and attach to the right of eDP1 (Main screen)

```
xrandr --addmode HDMI2 1920x1080 60
--output HDMI2 --mode 1920x1080_60 --right-of eDP1
```

Now export that with x11vnc, choosing the appropriate offset:

```
x11vnc -display :0 -clip 1920x1080+1600+0 <other options>
```

Note: Add desired encryption/authentication/other options to that command.

• Now connect to with a VNC client to your "virtual monitor". (or modify above command to connect to a "listening" VNC-client.

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With the notebook screen and a VGA monitor it fails saying xrandr: Configure crtc 2 failed . If I use only one screen (either VGA or embedded one) it works. How can I make it work with both screens? – Zhigalin - Reinstate CMs Oct 13 '17 at 18:50

2 of 3 25/03/2021, 02:35 See this answer to be able to use VIRTUAL1 instead of a real output like HDMI2, and be able to manage it (select resolution, arrange desktop geometry, clone or extend) in the desktop environment screen settings like any other physical monitor.



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answered Sep 11 '17 at 10:11

Rafael Godínez Pérez **191 •** 2 • 4

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