

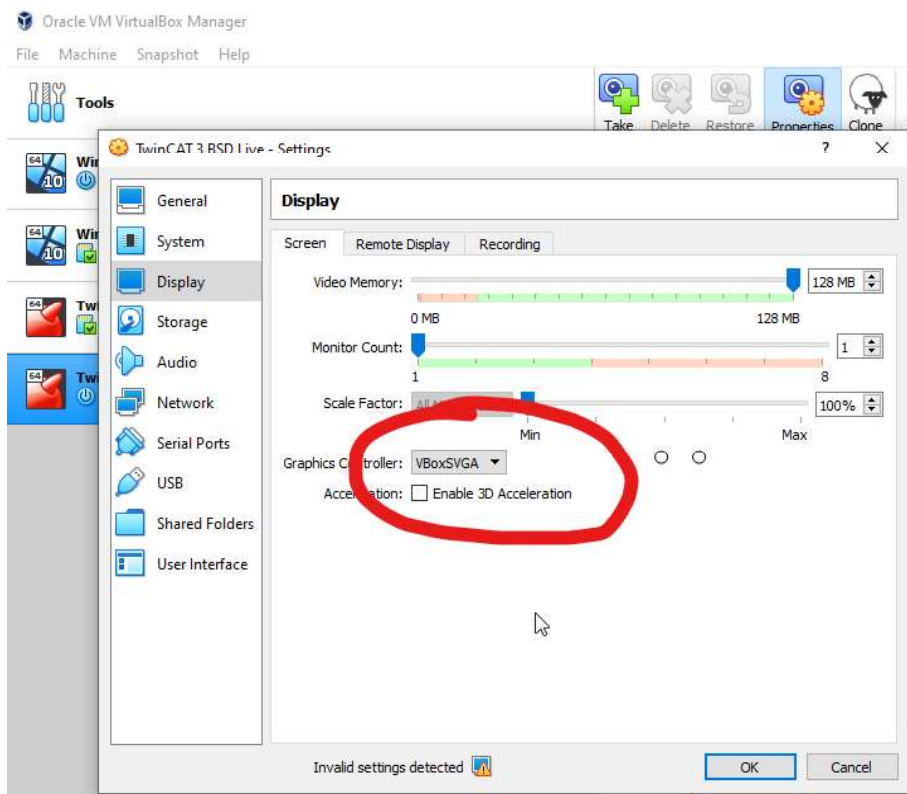
Installing Firefox on TwinCAT BSD (optional - in VirtualBox)

This guide is an early draft so may be subject to change. This is also designed to be run in VirtualBox so there may be some steps which can be omitted when running on an IPC.

Please ensure you have more than 3GB of HDD space before continuing.

VirtualBox initial settings

You must change the video driver to a compatible driver before starting the VM.



Getting Started

First install all of the required packages for Firefox

```
doas pkg install -y xorg firefox
```

(optional - in Virtualbox) Install the virtualbox graphic drivers

```
doas pkg install -y emulators/virtualbox-ose-additions
```

Add the following enable to rc.conf

```
doas sysrc dbus_enable="YES"
```

(optional - in Virtualbox) enable the auto start of the vbox services

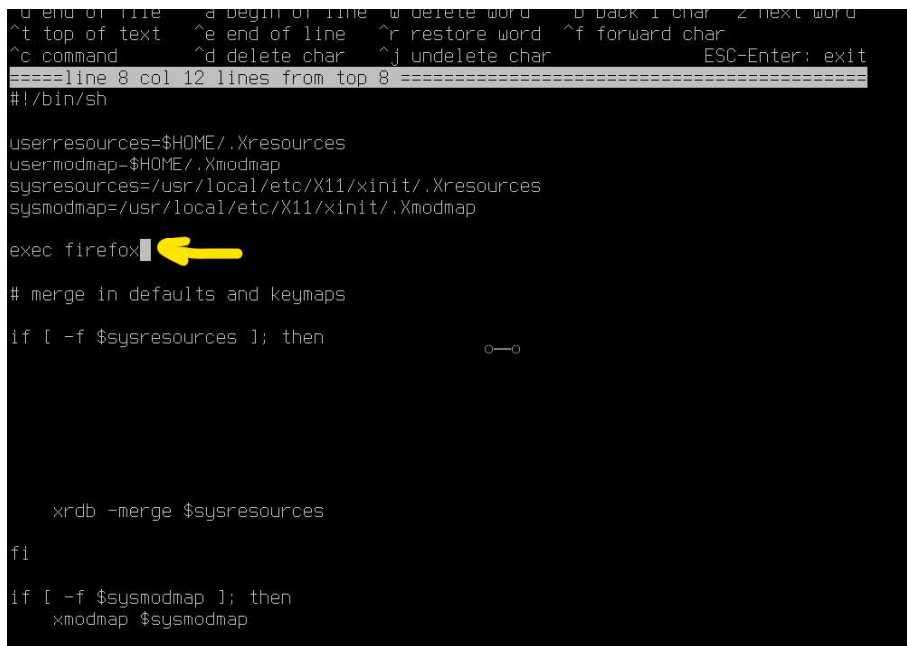
```
doas sysrc vboxguest_enable="YES"
doas sysrc vboxservice_enable="YES"
```

Configure Firefox to auto start with startx

```
cp /usr/local/etc/X11/xinit/xinitrc ~/.xinitrc
ee ~/.xinitrc
```

In the editor add the following line then close/save the file with (ESC) > a > a

```
exec firefox
```



```

^_ end of file      ^_a begin of line  ^_w delete word    ^_b back 1 char   ^_z next word
^t top of text     ^e end of line    ^r restore word   ^f forward char
^c command         ^d delete char    ^j undelete char  ESC-Enter: exit
=====line 8 col 12 lines from top 8 =====
#!/bin/sh

userresources=$HOME/.Xresources
usermodmap=$HOME/.Xmodmap
sysresources=/usr/local/etc/X11/xinit/.Xresources
sysmodmap=/usr/local/etc/X11/xinit/.Xmodmap

exec firefox
# merge in defaults and keymaps

if [ -f $sysresources ]; then
    xresources -merge $sysresources
fi

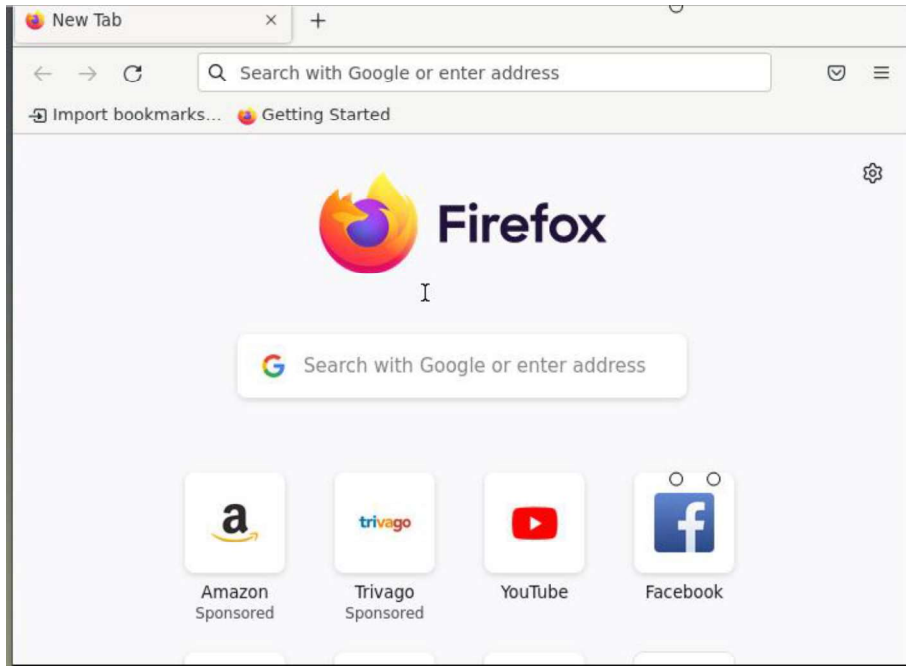
if [ -f $sysmodmap ]; then
    xmodmap $sysmodmap
fi
```

Now restart TwinCAT BSD

```
shutdown -r now
```

Log in and test using

```
startx
```



To start "startx" automatically you will need to create an rc.d script. Detailed information on creating rc.d scripts can be found in the FreeBSD documentation chapter [Practical rc.d scripting in BSD](#).