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HOWTO: INSTALL XEN DOM0 ON DEBIAN STRETCH FROM SOURCE

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HowTo: Install XEN Dom0 on Debian Stretch from source

01 JUNE 2016 (HTTPS://WWW.TIDYHOSTS.COM/BLOG/2016/06/01/)

by: ADMIN (HTTPS://WWW.TIDYHOSTS.COM/BLOG/AUTHOR/ADMIN/)

in: XEN VIRTUALISATION (HTTPS://WWW.TIDYHOSTS.COM/BLOG/CATEGORY/XEN-VIRTUALISATION/)

note: NO COMMENTS (HTTPS://WWW.TIDYHOSTS.COM/BLOG/HOWTO-INSTALL-XEN-DOM0-ON-DEBIAN-STRETCH-FROM-SOURCE/#RESPOND)



This article assumes you have a clean install of Debian and have root level access to the server. Note this was performed on a minimal install with no desktop.

Prereqs

To be able to perform a successful kernel build, you will need to install the following packages:

```
apt-get install bc bcc bin86 gawk bridge-utils iproute libcurl3 libcurl4-openssl-dev bzip2 module-init-tools transfig texinfo texlive-latex-base gcc-multilib texlive-fonts-extra texlive-fonts-recommended pciutils-dev mercurial libncurses5-dev patch libvncserver-dev libsdl-dev gettext libaio1 libaio-dev libssl-dev iasl libbz2-dev git-core uuid-dev python python-dev python-twisted build-essential make gcc libc6-dev zlib1g-dev texlive-latex-recommended e2fslibs-dev libyajl-dev libpixmap-1-dev liblzma-dev
```

XEN Compile and install

Now lets get the XEN tarball and make XEN

```
cd /usr/src
```

```
wget https://downloads.xenproject.org/release/xen/4.9.0/xen-4.9.0.tar.gz
```

```
tar xvf xen-4.9.0.tar.gz
```

```
cd xen-4.9.0
```

```
./configure --enable-githttp --libdir=/usr/lib
```

```
make -j 5 xen
```

```
make -j 5 tools
```

```
make -j 5 stubdom
```

```
cd dist/install
```

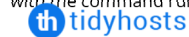
```
cp -R */
```

```
vi /etc/default/xendomains and comment out #XENDOMAINS_SAVE=/var/lib/xen/save
```

These tweaks should make XEN start at system startup and also create the bridge we need for the DomUs. Please note that rc3.d could be rc2.d depending on your runlevel, check



with the command `runlevel` at the prompt.



```
ln -s /etc/init.d/xendomains /etc/rc0.d/S10xendomains
(https://www.tidyhosts.com/)
```

```
ln -s /etc/init.d/xendomains /etc/rc6.d/S10xendomains
```

```
ln -s /etc/init.d/xencommons /etc/rc3.d/S98xencommons
```

```
ln -s /etc/init.d/xendomains /etc/rc3.d/S98xendomains
```

```
ln -s /root/xendom0caps /etc/rc3.d/S98xendom0caps
```

```
ln -s /root/iptables-enable /etc/rc3.d/S99iptables-enable (not required)
```

```
vi /root/xendom0caps (add xl sched-credit -d Domain-0 -w 512)
```

```
chmod +x /root/xendom0caps
```

```
vi /etc/rc.local (add /usr/bin/setterm -powersave off -blank 0)
```

```
vi /etc/xen/xend-config.sxp
```

find line `(network-script network-bridge)` and comment out

```
#network-script network-bridge
```

```
vi /etc/xen/xl.conf (disable autoballoon)
```

```
autoballoon=0
```

Interfaces

As newer versions of XEN can use the system bridge rather than its own script we need to edit the network configuration to invoke our new bridge interface. Replace the IP values with your settings.

```
vi /etc/network/interfaces
```

```
auto xenbr0
iface xenbr0 inet static
bridge_ports eth0
address 172.20.45.1
netmask 255.255.0.0
network 172.20.0.0
broadcast 172.20.255.255
gateway 172.20.0.1
```

Once done reboot to ensure the config applies successfully.

Kernel Compile

Now XEN is complete we need to get our kernel for Dom0. Replace the kernel number with the version you want to use.

```
cd /usr/src
```

(Please note the kernel version maybe significantly newer than detailed here)

```
wget https://cdn.kernel.org/pub/linux/kernel/v4.x/linux-4.12.3.tar.xz
```

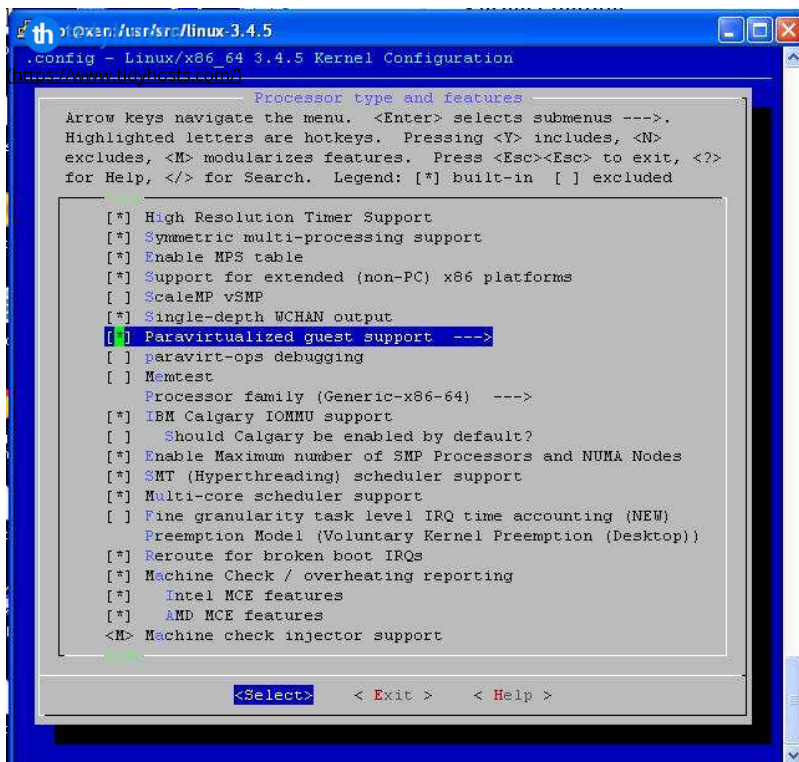
```
tar xvf linux-4.12.3.tar.gz
```

```
cd linux-4.12.3
```

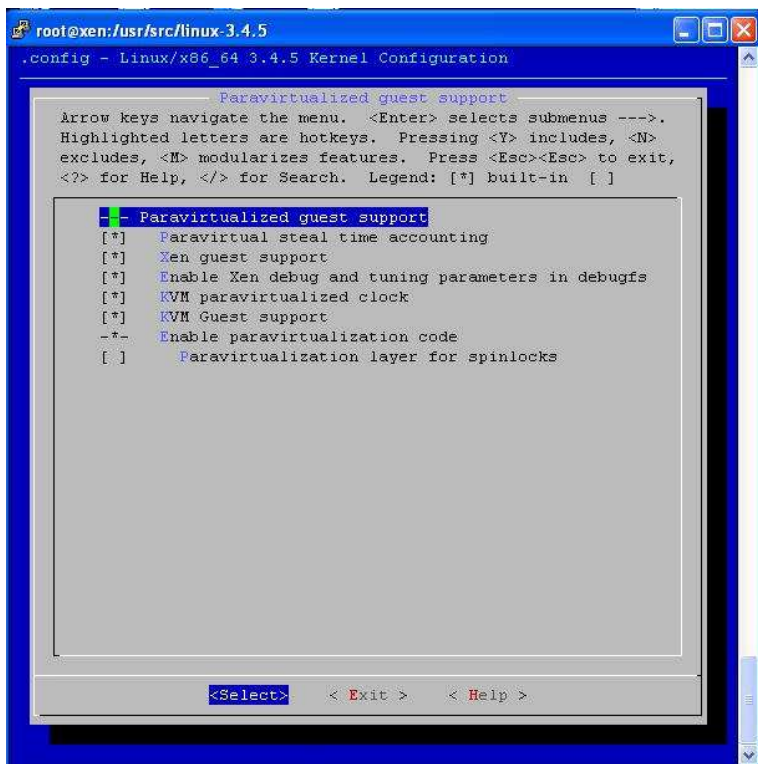
```
make menuconfig
```

Go into Processor type and features

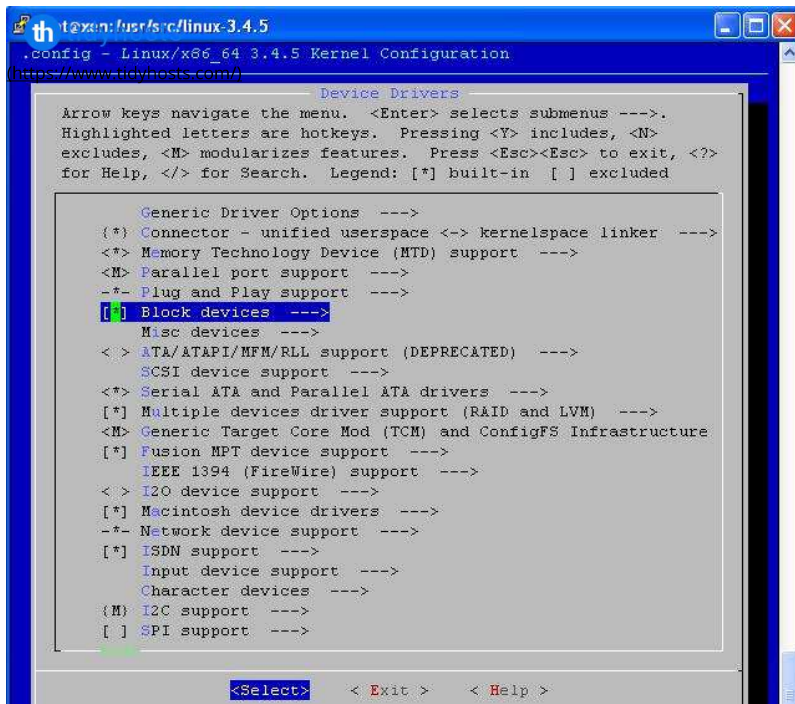




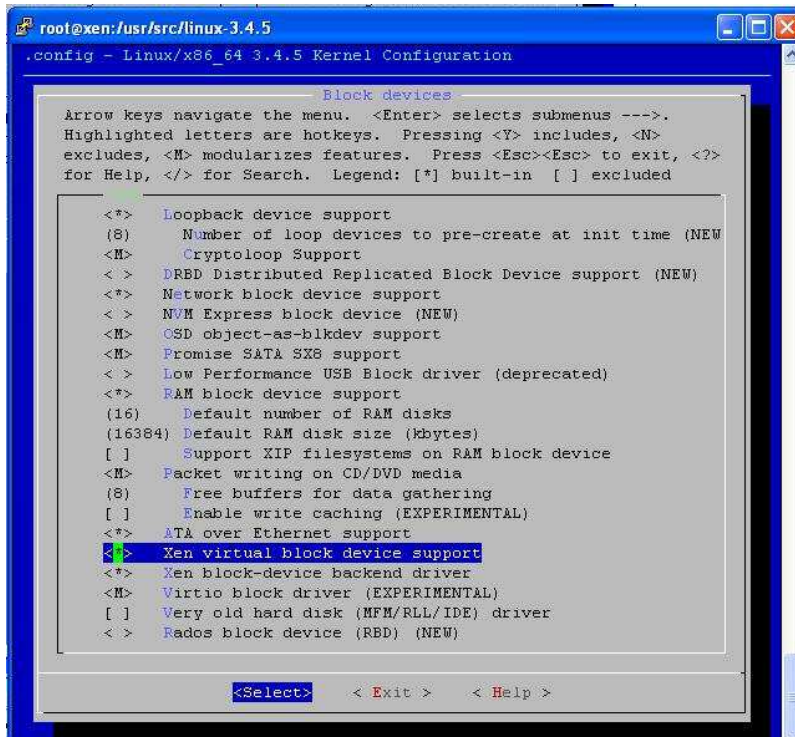
Statically enable all XEN features



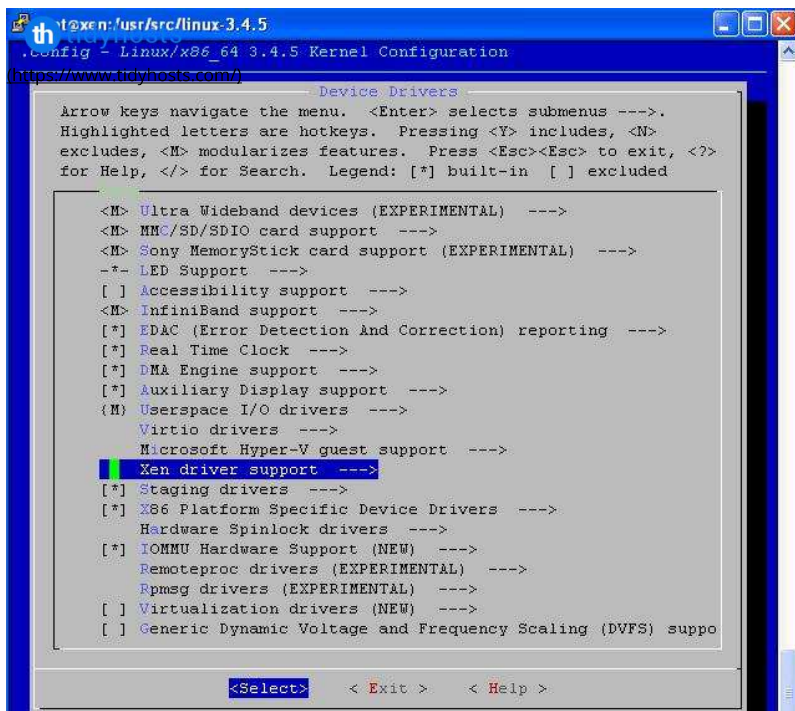
Go back to the main menu and enter Device Drivers menu, then enter block devices menu



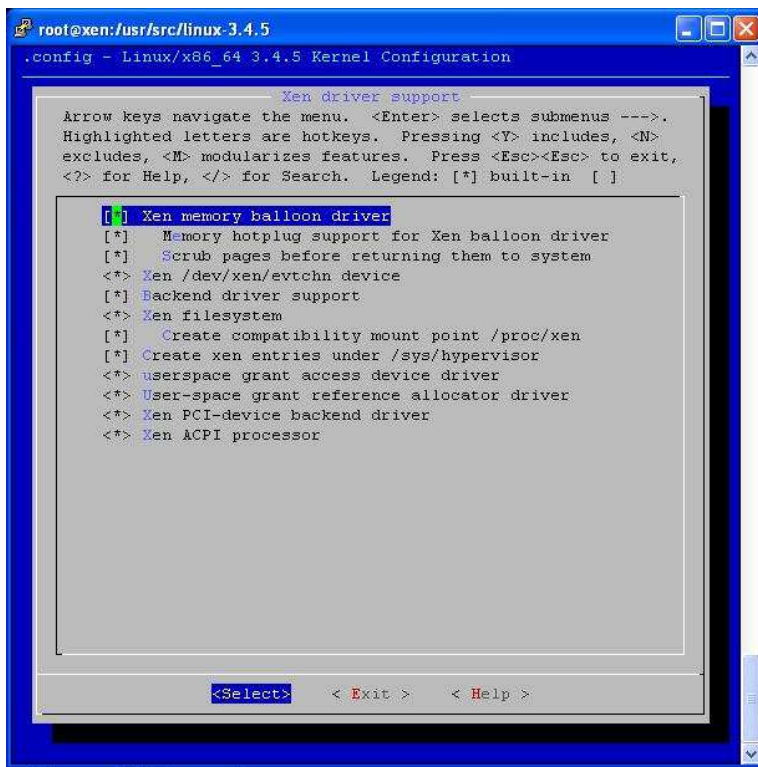
Statically enable the 2 XEN options



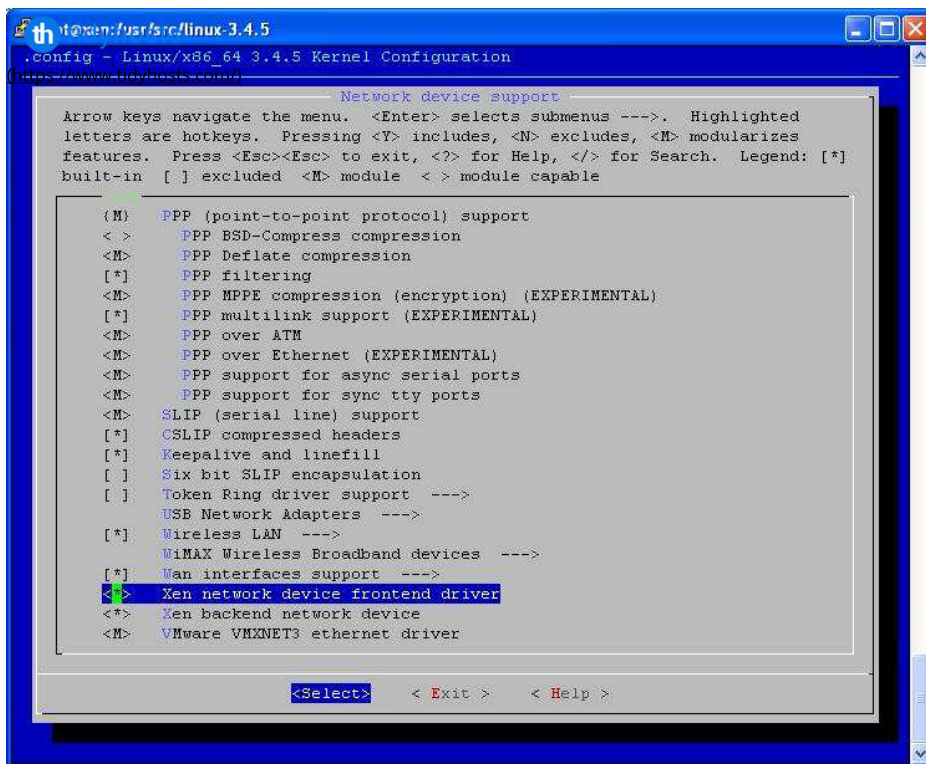
Go back to the Device Drivers menu and go down to XEN driver support



Statically enable all features



Go back to Device Drivers, go into Network device support and statically enable the 2 XEN options at the bottom



Exit out and save.

Note to make sure all options are selected run

```
cat /usr/src/linux-4.12.3/.config | grep XEN
```

You should see the same as

```
CONFIG_XEN=y
CONFIG_XEN_DOM0=y
CONFIG_XEN_PRIVILEGED_GUEST=y
CONFIG_XEN_PVHVM=y
CONFIG_XEN_MAX_DOMAIN_MEMORY=500
CONFIG_XEN_SAVE_RESTORE=y
CONFIG_XEN_DEBUG_FS=y
CONFIG_PCI_XEN=y
CONFIG_XEN_PCIDEV_FRONTEND=y
CONFIG_XEN_BLKDEV_FRONTEND=y
CONFIG_XEN_BLKDEV_BACKEND=y
CONFIG_NETXEN_NIC=m
CONFIG_XEN_NETDEV_FRONTEND=y
CONFIG_XEN_NETDEV_BACKEND=y
CONFIG_INPUT_XEN_KBDDEV_FRONTEND=y
CONFIG_HVC_XEN=y
CONFIG_HVC_XEN_FRONTEND=y
# CONFIG_XEN_WDT is not set
CONFIG_XEN_FBDEV_FRONTEND=y
CONFIG_XEN_BALLOON=y
CONFIG_XEN_BALLOON_MEMORY_HOTPLUG=y
CONFIG_XEN_SCRUB_PAGES=y
CONFIG_XEN_DEV_EVTCHN=y
CONFIG_XEN_BACKEND=y
CONFIG_XENFS=y
CONFIG_XEN_COMPAT_XENFS=y
CONFIG_XEN_SYS_HYPERVISOR=y
CONFIG_XEN_XENBUS_FRONTEND=y
CONFIG_XEN_GNTDEV=y
CONFIG_XEN_GRANT_DEV_ALLOC=y
CONFIG_XEN_SWIOTLB_XEN=y
CONFIG_XEN_PCIDEV_BACKEND=y
CONFIG_XEN_PRIVCMD=y
```

```
CONFIG_XEN_ACPI_PROCESSOR=y
```



If it looks good then continue otherwise please correct before hand.
(<https://www.tidyhosts.com/>)

```
make -j 5 bzImage
```

```
make -j 5 modules
```

```
make -j 5 INSTALL_MOD_STRIP=1 modules_install
```

```
cp -a arch/x86/boot/bzImage /boot/vmlinuz-4.12.3
```

```
cp -a System.map /boot/System.map-4.12.3
```

```
cp -a .config /boot/config-4.12.3
```

```
depmod -a
```

```
mkinitramfs -o /boot/initrd.img-4.12.3 4.12.3
```

Modify GRUB2 to boot in XEN mode

```
cd /etc/grub.d
```

```
mv 10_linux 50_linux
```

```
vi /etc/default/grub
```

add these lines under GRUB_CMDLINE_LINUX""

```
GRUB_CMDLINE_XEN_DEFAULT=dom0_mem=1024M,max:1024M
```

```
GRUB_CMDLINE_XEN=
```

save and exit

now issue

```
update-grub
```

reboot once complete.



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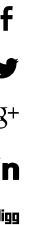
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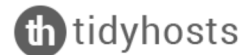
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