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## Chroot to pi sd card

```
    ○ chroot-to-pi.sh

       #!/bin/bash
      # This script allows you to chroot ("work on")
      # the raspbian sd card as if it's the raspberry pi
      # on your Ubuntu desktop/laptop
   6
      # just much faster and more convenient
      # credits: https://gist.github.com/jkullick/9b02c2061fbdf4a6c4e8a78f1312a689
   8
   9
  10
      # make sure you have issued
      # (sudo) apt install qemu qemu-user-static binfmt-support
      # Write the raspbian image onto the sd card,
  14
      # boot the pi with the card once
      # so it expands the fs automatically
      # then plug back to your laptop/desktop
      # and chroot to it with this script.
  19
      # Invoke:
  20
      # (sudo) ./chroot-to-pi.sh /dev/sdb
      # assuming /dev/sdb is your sd-card
      # if you don't know, when you plug the card in, type:
      # dmesg | tail -n30
  24
      # Note: If you have an image file instead of the sd card,
  26
      # you will need to issue
      # (sudo) apt install kpartx
      # (sudo) kpartx -v -a 2017-11-29-raspbian-stretch-lite.img
  29
  30
      # (sudo) ./chroot-to-pi.sh /dev/mapper/loop0p
      # With the vanilla image, you have very little space to work on
      # I have not figured out a reliable way to resize it
  34
      # Something like this should work, but it didn't in my experience
      # https://gist.github.com/htruong/0271d84ae81ee1d301293d126a5ad716
  36
      # so it's better just to let the pi resize the partitions
      mkdir -p /mnt/raspbian
  40
      # mount partition
  41
      mount -o rw ${1}2 /mnt/raspbian
      mount -o rw ${1}1 /mnt/raspbian/boot
  42
  43
  44
       # mount binds
  45
      mount --bind /dev /mnt/raspbian/dev/
      mount --bind /sys /mnt/raspbian/sys/
  46
  47
       mount --bind /proc /mnt/raspbian/proc/
       mount --bind /dev/pts /mnt/raspbian/dev/pts
  50
      # ld.so.preload fix
      sed -i 's/^/#CHROOT /g' /mnt/raspbian/etc/ld.so.preload
      # copy qemu binary
  54
       cp /usr/bin/qemu-arm-static /mnt/raspbian/usr/bin/
       echo "You will be transferred to the bash shell now."
       echo "Issue 'exit' when you are done."
  58
       echo "Issue 'su pi' if you need to work as the user pi."
  60
       # chroot to raspbian
  61
       chroot /mnt/raspbian /bin/bash
```

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# Clean up
# revert ld.so.preload fix
sed -i 's/^#CHROOT //g' /mnt/raspbian/etc/ld.so.preload
# unmount everything
umount /mnt/raspbian/{dev/pts,dev,sys,proc,boot,}
```



akhepcat commented a day ago

Just in case somebody has previously commented out a line in /etc/ld.so.preload, you should change your prefixing:

sed -i 's/^/#CHROOT /g' /mnt/raspbian/etc/ld.so.preload and

sed -i 's/^#CHROOT //g' /mnt/raspbian/etc/ld.so.preload

so that only your specific changes get unwrapped - and if there's an issue, it's obvious what was touched.



htruong commented 23 hours ago

Owner

@akhepcat: Great idea, added to the script. Thanks!