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Multistrap

```
sudo su -
mkdir /home/emonge/debian11
mount -t 9p -o trans=virtio fs0 /home/emonge/debian11 -
oversion=9p2000.L,posixacl,msize=5000000,cache=mmap
cat > /home/emonge/multistrap.conf <<EOF
[General]
unpack=true
debootstrap=Debian
aptsources=Debian

[Debian]
source=http://ftp.us.debian.org/debian
suite=bullseye
keyring=debian-archive-keyring
EOF
/usr/sbin/multistrap -a amd64 -d /home/emonge/debian11/ -f
/home/emonge/multistrap.conf
mount -o bind /proc /home/emonge/debian11/proc
mount -o bind /dev /home/emonge/debian11/dev
mount -o bind /dev/pts /home/emonge/debian11/dev/pts
mount -o bind /sys /home/emonge/debian11/sys
chroot /home/emonge/debian11 /bin/bash
mount -t tmpfs -o noatime,size=500M tmpfs /tmp
dpkg-reconfigure tzdata
dpkg-reconfigure locales
cd /etc/initramfs-tools
echo 9p >> modules
echo 9pnet >> modules
echo 9pnet_virtio >> modules
update-initramfs -u
passwd
echo 'tmpfs /tmp tmpfs rw,nosuid,nodev,size=524288k,nr_inodes=204800 0 0' >>
/etc/fstab
umount /tmp
exit
umount /home/emonge/debian11/proc
umount /home/emonge/debian11/dev/pts
umount /home/emonge/debian11/dev
umount /home/emonge/debian11/sys
```

```
/usr/bin/qemu-system-x86_64 \
-m machine pc,accel=kvm,usb=off,dump-guest-core=off -m 2048 \
-smp 4,sockets=4,cores=1,threads=1 -rtc base=utc \
-boot strict=on -kernel /home/emonge/debian11/boot/vmlinuz-5.10.0-13-
amd64 \
-initrd /home/emonge/debian11/boot/initrd.img-5.10.0-13-amd64 \
-append 'root=fsRoot rw rootfstype=9p
rootflags=trans=virtio,version=9p2000.L,msize=5000000,cache=mmap,posixacl
```

```
console=ttyS0 init=/bin/systemd' \  
-fsdev  
local,security_model=mapped,multidevs=remap,id=fsRoot,path=/home/emonge/debi  
an11/ \  
-device virtio-9p-pci,id=fsRoot,fsdev=fsRoot,mount_tag=fsRoot \  
-sandbox  
on,obsolete=deny,elevateprivileges=deny,spawn=deny,resourcecontrol=deny \  
-nographic
```

References

- <https://hamishcoleman.github.io/talk-containers1/example2/>
- <https://wiki.debian.org/Multistrap>
- <https://github.com/jubinson/debian-rootfs>

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