LXC for Devs

What is it?

Cheap virtualization

- No security (who needs it)
- No resource limits (unless you turn them on)

Like a slightly more polished chroot

How do I get going?

assumes you are on ubuntu

use -d to daemonize

Some technical details

- Shares the same kernel
 - assuming same architecture
 - you can see the processes running in the main os
- Linux only
- Alternative architectures via gemu
- Uses debootstrap for minimal debian flavour os downloads
- File system stored in /var/lib/lxc or can use LVVM volumes
 - BTRFS recommended for quick snapshots

General use

- See commands starting lxc-*
- I avoid lxc-halt, run halt from the machine
- Ixc-console attaches you to a console, useful if you can't ssh

Creating machines

- The general scripts for creating the machines are in /usr/share/lxc/templates.
 I've modified mine to do some extra wiring.
- Be careful about the caching of os images if you do modify them
- Ixc-clone -o original -n new-machine is an alternative way to create machines

Networking

- On Ubuntu things setup to just work
- A NAT bridge is setup for the boxes to talk to the internet
- Your box can talk to them too since it's hosting the bridge
- I've never tried to make the boxes running accessible from outside, but there's no reason you can not

General advice

 Set the boxes up to use something like aptcacher. That should save on downloading packages again and again