

# LXC Guest Setup

As I discussed in [Introduction: Novice to Network Admin](#) the goal is to run a router/firewall inside a *LXC* guest so there is little to no overhead when routing packets. So I created an **unprivileged** *LXC* guest with a *Debian 10* template.

## Resources

The [mini PC](#) this will run on isn't a powerhouse but should provide more than enough resources and have a few spare cycles leftover for something useful like running *Pi-hole*.

<b>Cores</b>	<i>unlimited</i> (4 cores)
<b>Memory</b>	2048 MiB
<b>Swap</b>	512 MiB
<b>Root Disk</b>	2 GB

## Networking

Device	ID	Name
physical	net0	eth0
virtio	net1	eth1

Because there is some overhead with using an [Ethernet Bridge](#) I only wanted to use one where it made the most sense. Since the Ethernet connection from the modem will only ever talk directly to this *LXC* guest I am "passing" one of the physical Ethernet interfaces from *Proxmox* to this *LXC* guest. This makes it unavailable to the host and allows the *LXC* guest direct access to it similar to how [PCI\(e\) Passthrough](#) would work on a virtual machine.

This can be accomplished with *Proxmox/LXC* configuration similar to what is shown below.

```
# /etc/pve/lxc/100.conf
net1: name=eth1,bridge=vmbr0,hwaddr=D6:A9:67:D5:66:22,type=veth
```

```
+ lxc.net.0.type: phys
+ lxc.net.0.link: enp1s0
+ lxc.net.0.name: eth0
```

Be careful to not reuse the same index for ``lxc.net.[index]`` and ``net[index]`` values or the guest will fail to boot.

# Operating System

I didn't have to do much to the system itself other than making sure the timezone was correct and that it was up to date.

```
$ dpkg-reconfigure tzdata
$ apt update
$ apt upgrade
```

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