Personal Photo Management Server with Immich

This will be a small "guide" to the installation of Tailscale and Immich.

After some time of paying for iCloud storage and recently running out of storage for Google Photos I decided to finally get rid of pay-to-play services by using Immich.

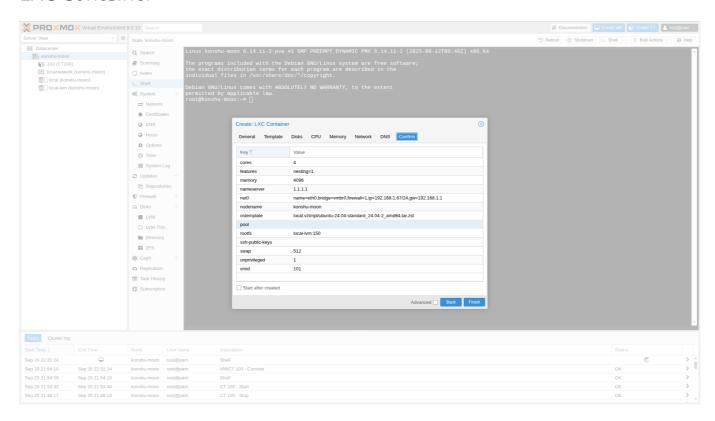
Immich is essentially a Google Photos clone but is free, open-source software that can be used on a home server to have your very own cloud with unlimited amounts of storage as long as you provide it.

Tailscale is an open-source WireGuard-based VPN that connects users, services, and devices directly. Tailscale can be used anywhere in the world as long as you have internet access — and the best part is that it's FREE (with paid tiers available, but the free tier is more than enough for a regular user).

Specs

- Intel Core i5-7500 @ 3.40GHz
- 8GB DDR3 RAM
- 1TB HDD (Seagate)
- Proxmox (OS)

LXC Container

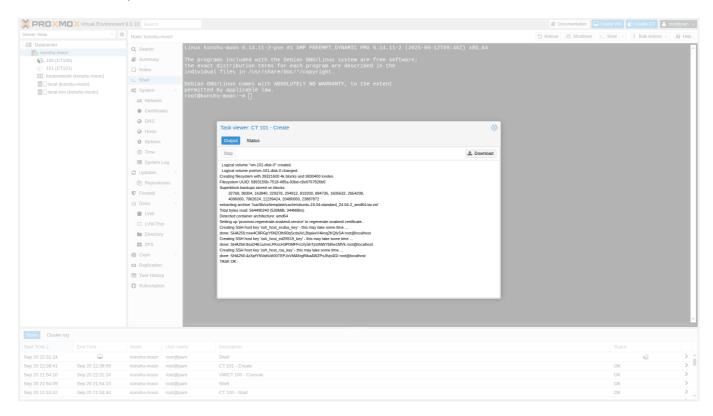


Inside of Proxmox I made an LXC container running Ubuntu so that it can house our Immich and Docker programs.

In my screenshot above you'll see exactly what settings I am using for this container to run Immich along with Tailscale.

Note: What I'm missing in the screenshot is the DNS and IP configuration.

- **DNS:** hostname set to host setting, DNS IP set to 1.1.1.1 (Cloudflare)
- **IP configuration:** can be automatically set, but I opted for a static IP (easier for the Tailscale installation).

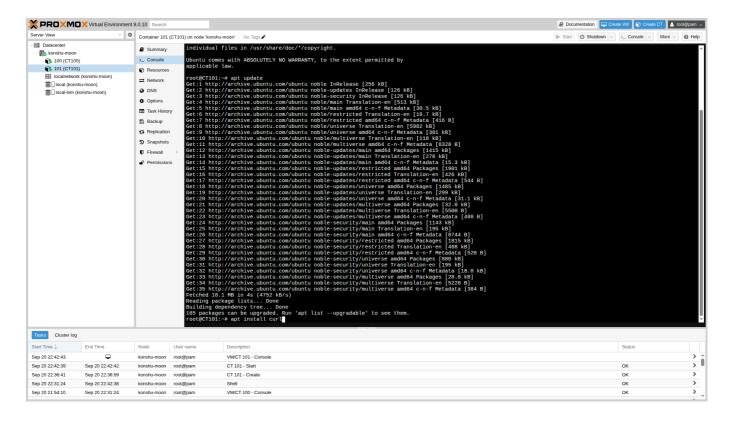


Once the fields were filled in with our appropriate settings, we click on **Create**.

When finished, you'll see what's shown above letting us know that our container is now ready to use.

Before starting installations, update the container:

```
apt update
apt install curl
```

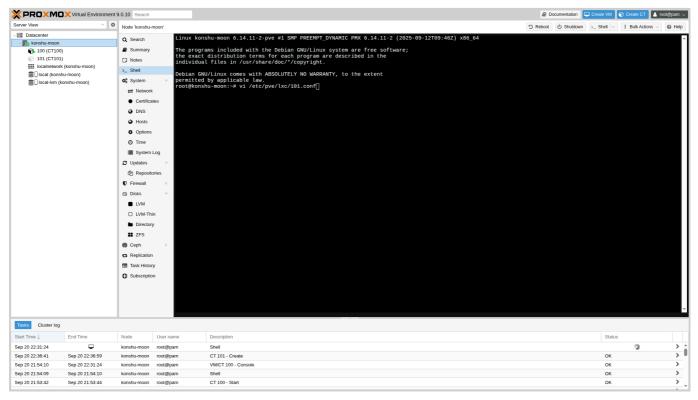


Tailscale Install

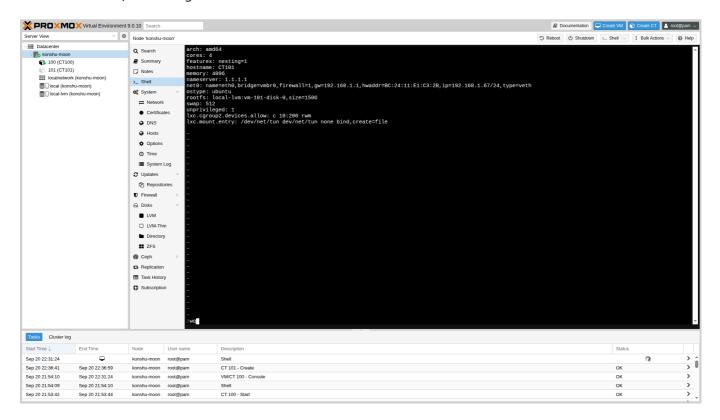
In our **host shell**, we need to edit a config file to let Tailscale use a tun device. Add these lines:

```
lxc.cgroup2.devices.allow: c 10:200 rwm
lxc.mount.entry: /dev/net/tun dev/net/tun none bind,create=file
```

To edit the file, run the command shown in the screenshot below:



Inside of the file, the configuration will look like this:



Now that our config file is ready, we can install Tailscale inside the LXC container:

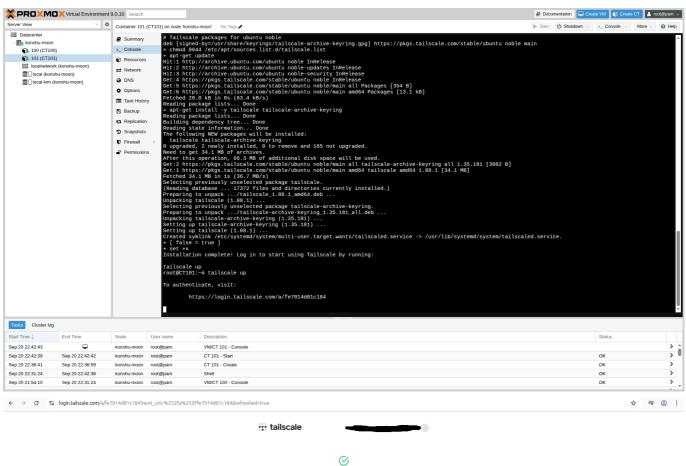
```
curl -fsSL https://tailscale.com/install.sh | sh
```

After the installation completes, run:

```
tailscale up
```

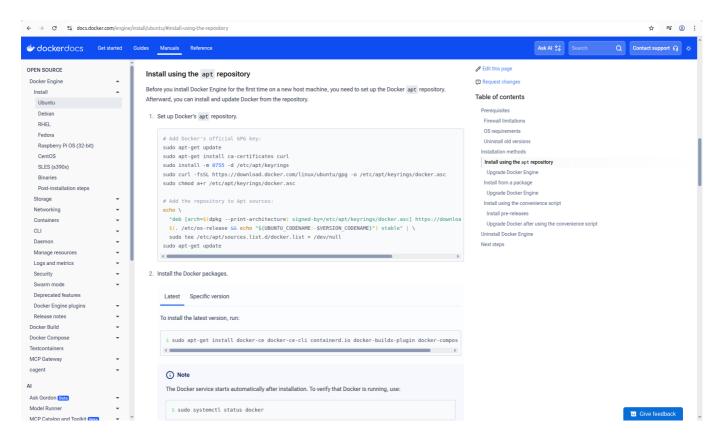
Tailscale will then present a login link you can open in your browser to set up Tailscale with your email.

Screenshots below:



Login successful Your device CT101 is logged in to the ■ tailnet. If this is not what you meant to do, you can remove the device from your tailnet. If you need help, contact support. You will be redirected to your console shortly. Or, you can visit the console immediately.

Docker Installation



To properly run Immich, we must first install Docker Compose.

We'll use the Docker official apt repository instructions.

Installing Immich

Now for the golden egg: **Immich**.

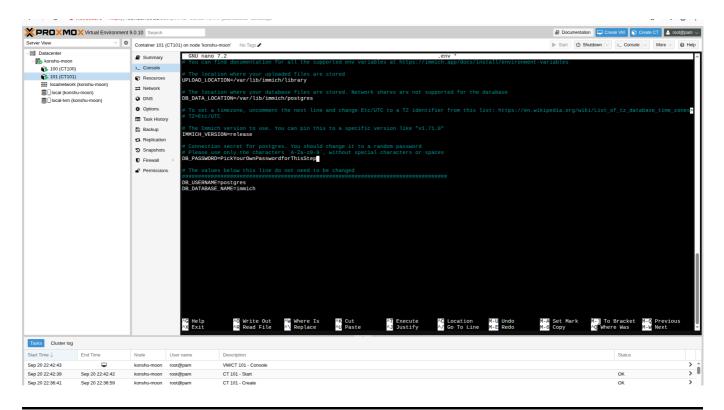
The installation steps are available on the Immich website.

While following the steps, I ran into some confusion when editing the configuration files (not mentioned in the docs).

To access the files, run:

nano .env

Inside the editor, fill out the configuration values as shown in the screenshot below (remember to create your own password).



The Finished Product

After completing the installation of Docker, Tailscale (so we can access it anywhere), and Immich, the last step is the post-installation setup.

Follow Immich post-install instructions to download the mobile app.

This is what my finished product looks like:

