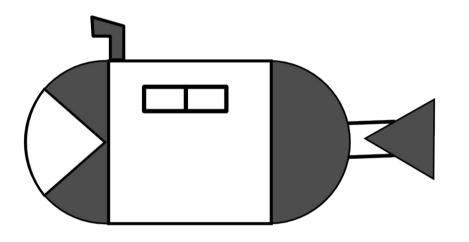
subuser.org



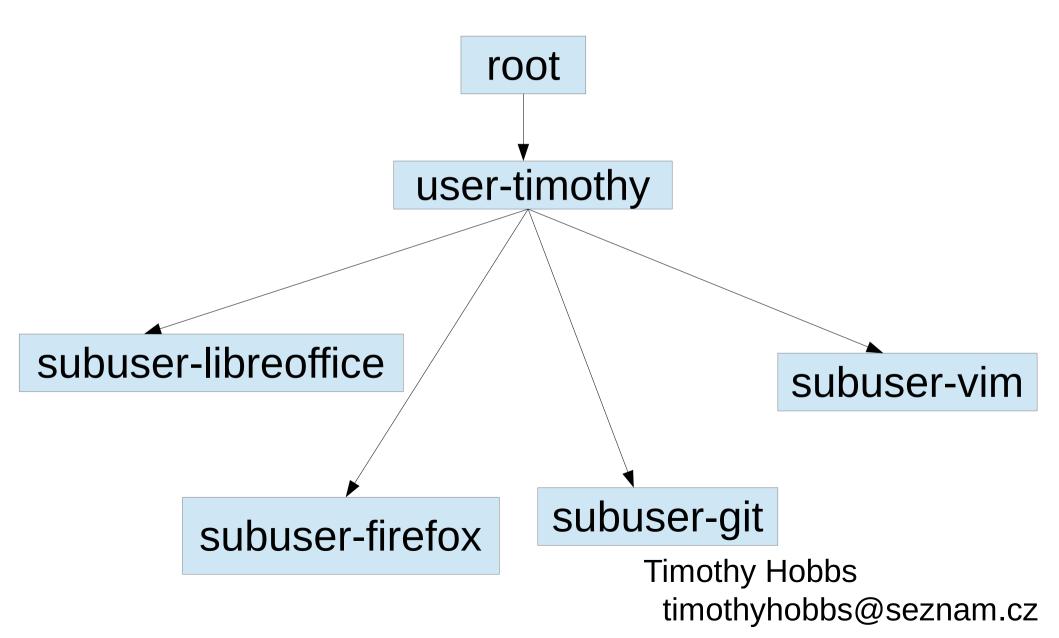
Timothy Hobbs

thobbs.cz

user

timothyhobbs@seznam.cz

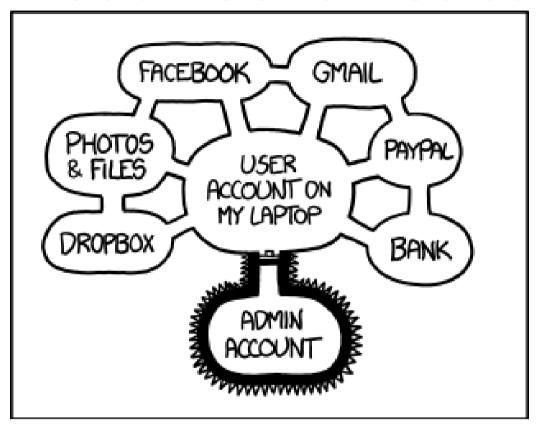
Docker[™] + subuser(not tm)



The problems:

- 1. Installing/Distributing software is hard
- 2. Downloading untrusted software is unsafe
- 3. The cloud will eat your soul

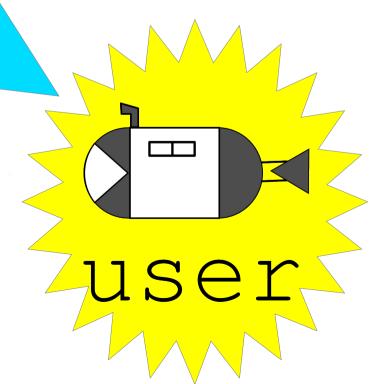
Without Docker+subuser



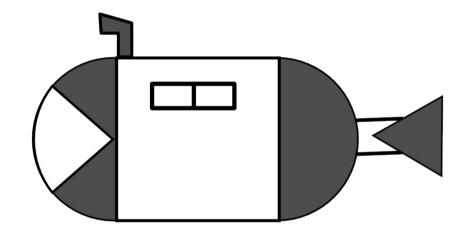
All programs on my computer have full access to my home directory.

Credit: xkcd.com

There is a solution!

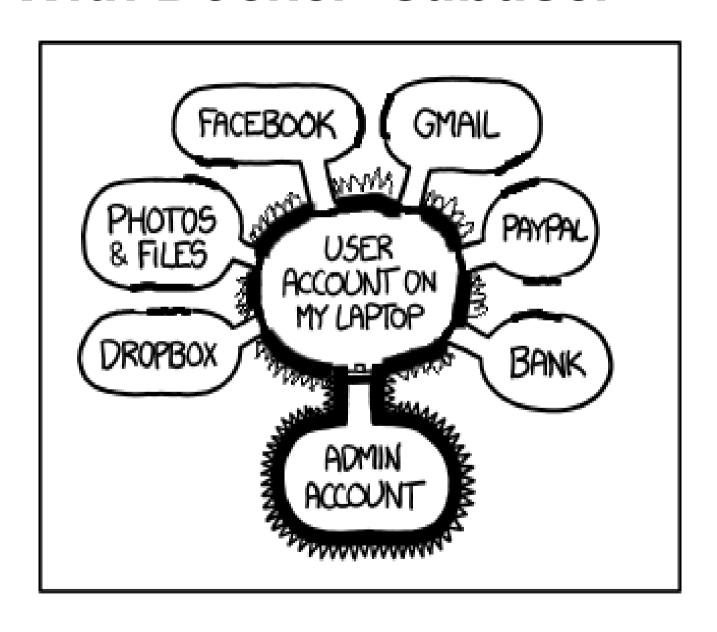


What is subuser?



user

With Docker+subuser

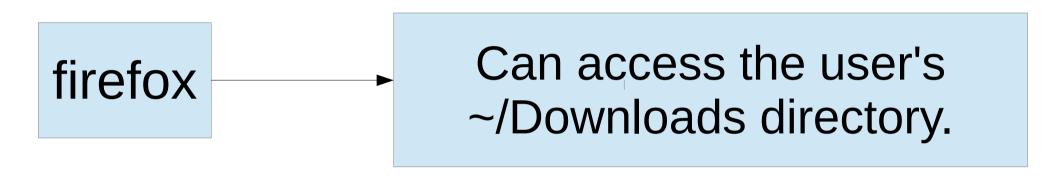


Every subuser has its own home directory

```
firefox
$ Is -a ~/
.cache Desktop
.gconf .mozilla
.dbus Downloads
.local
```

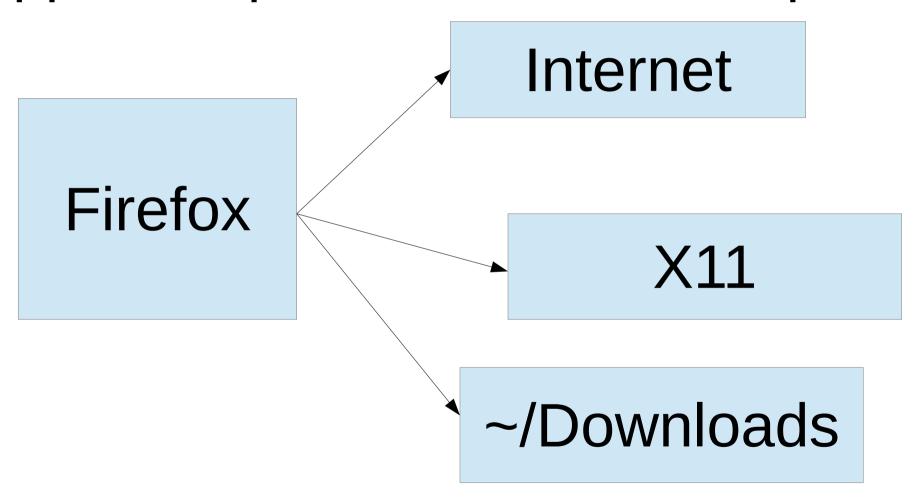
```
vim
$ ls -a ~/
. .. .vim .viminfo
```

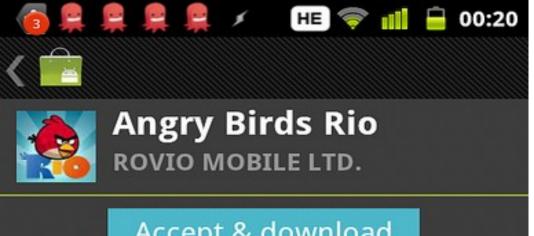
But they can share the stuff they need to share



vim Can access the \$PWD from which it was launched.

permissions.json: just like an apparmor profile but *much* simpler





Accept & download

Storage

NEW: Modify/delete USB storage contents

Phone calls

NEW: Read phone state and identity

Network communication
Full Internet access

Your location

NEW: Coarse (network-based) location

Think of app level permissions like on Android™

Angry Birds is a trademark of Rovio Mobile LTD

Image Credit: http://www.flickr.com/photos/yoav85/

What is Docker?



Docker is a sandbox

What is Docker like?

Docker is like a virtual machine.

Programs are shipped in Docker images

•Images are portable across all x86-64 linux distributions

How does Docker work?

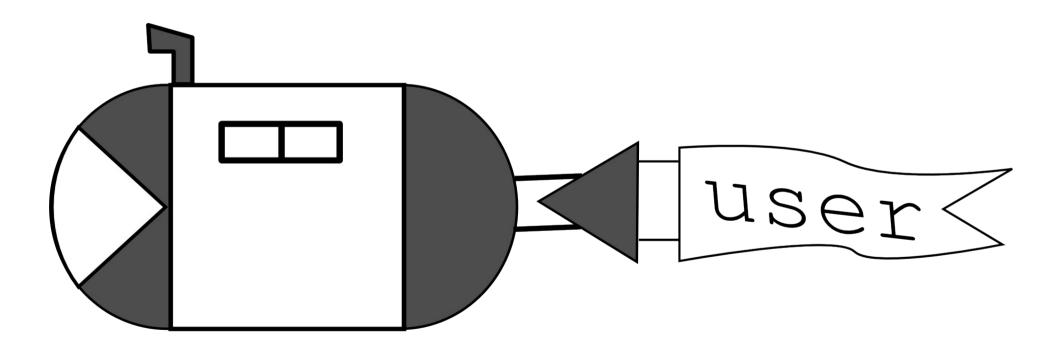
- It uses:
 - cgroups
 - chroot
 - Apparmor or SELinux

What does Docker solve?

- Install multiple versions of the same program with ease
- Build programs reliably across linux distributions
- Install bleeding edge programs on stable systems without compromising system stability

Separate processes into securely isolated containers

Back to subuser



Dependencies

- Docker 1.2
- Python > 2.7 without any external libraries
- Git
- In the future: ssh will be required for X11 programs

Distributed: Image Source addresses

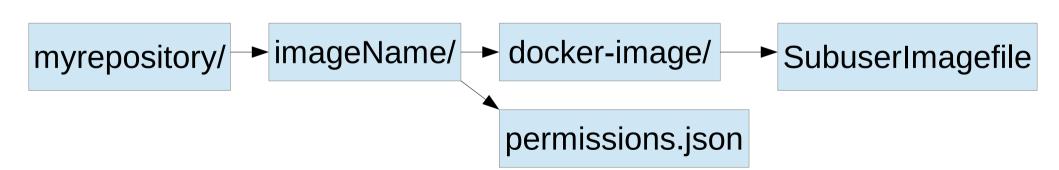
image-source-name@repository-name

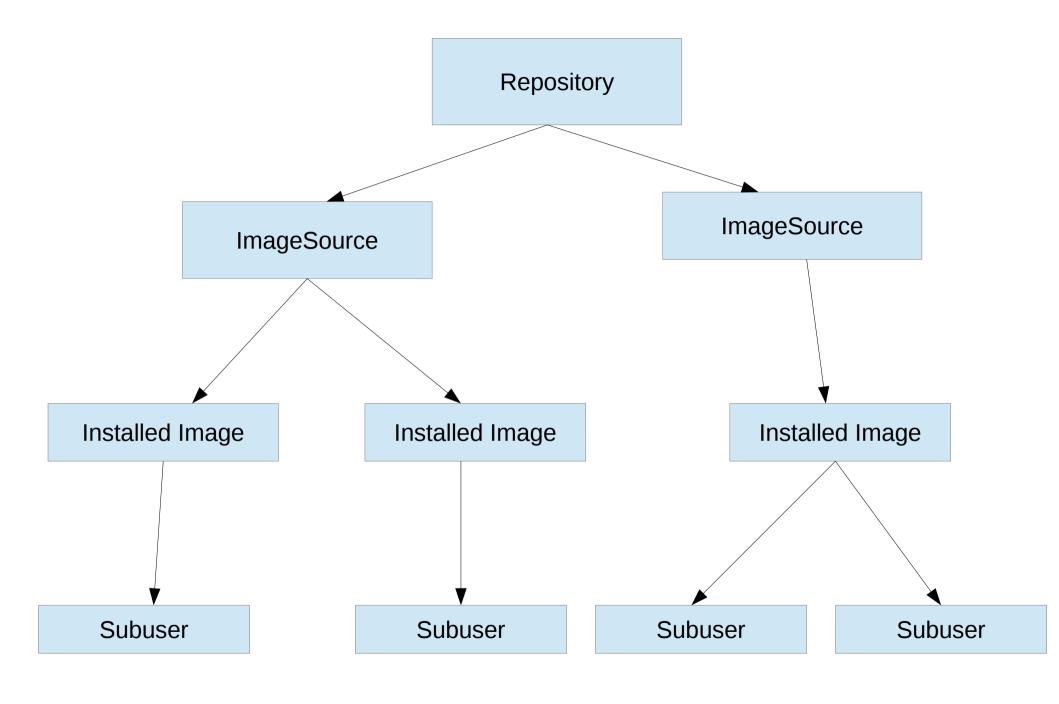
image-source-name@repository-url

subuser subuser add subuser-name source-name@http://example.com/subuser-repo.git

Creating your own subuser repository

A subuser repository is a git repo

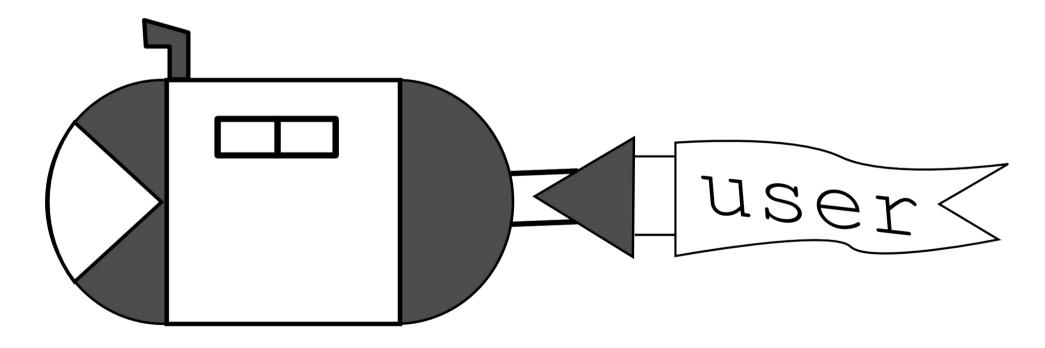




Download:



Demo!



Goodbye

subuser.org

