In your home right now, you probably have an old cell phone. Maybe you have a couple of old cell phones. Maybe a laptop, a desktop, a tablet, maybe even a smart TV or a smart refrigerator. Probably some of the devices are turned off. Maybe some of them are on and in "sleep" mode or standby.

You probably own dozens of CPU cores, dozens of gigabytes of RAM, and several screens, network connections, and terabytes of combined disk space. All of your devices combined are probably a super computer, even by today's standards. But your devices aren't combined. They are NOT a supercomputer. They run 5 different operating systems, they don't share a unified security model, and they all have different user interfaces.

When your laptop, cell phone, or desktop get an update, you are usually forced to accept it. Sometimes, even right in the middle of important work you were trying to get done.

Your data is stored in "the cloud". Giant corporations have built vast data warehouses that store your texts, your documents, and pictures of your loved ones. They use your data to make money. If they push an update to the app or platform: You are forced to accept it. Sometimes they make your older devices slow, forcing you to upgrade. Some of these services have fees that you are forced to pay monthly or annually. Most of these programs are constantly trying to corral you into a higher bracket that costs more.

Imagine the entire scenario was radically different and better.

In the data center, we rarely have one computer acting as one computer. Generally servers are hooked up together into a "Cluster" and all the CPUs, RAM, hard drives, and networking bandwidth can be given and shared to an array of different services and Virtual Machines real-time. If one service or process needs extra RAM or CPU cycles or Hard Drive space, it is automatically allocated and distributed across several physical machines. Even if one physical machine has a catastrophic failure, end users never notice because the cluster is still running, and has more than enough power to make up for the missing hardware.

Imagine we did the same thing for ALL of your devices. Imagine if your cell phone, your PC, your tablet, your laptop, your old cell phones, and even your smart fridge were all one megalithic super computer. If you are using the interface on the smart fridge, the network knows to give that user interface access to plenty of extra processing power and memory to make the experience as smooth and pleasant as possible.

Your old cell phone is just as fast as your new one, because they are using shared resources, and relying most of all on your more robust desktop and the efficiency and speed of it's more powerful CPU.

Your tablet has 20 cores at it's disposal, and 48 gb of ram.

How much better would the end user experience be in such a scenario?

Now imagine that with that shared resource pool, you could have your own cloud, storing all of your own data across all of your machines, prioritizing the files most important to you, such as your priceless family photos.

No more being spied on by giant corporations and government, your data is stored safely and securely on devices that can only be accessed with your thumbprint or other security measure that nobody else knows or has access to.

And you know your data is secure, because it's replicated across so many devices, and devices at other locations, like your work, or your mom's house, or in your car.

Imagine a dynamic, always improving operating system, as easy to use as Android, but without any corporate and government spyware, and without FORCING you to upgrade the interface if you are already comfortable with the existing version.

Imagine this interface looks and acts the same across all of your devices, constantly keeping the settings and configuration you enjoy most, even on brand new devices you have only just recently joind to the cluster.

Imagine never having to have anxiety about an upgrade, losing photos, contacts, music, or user interface settings.

Imagine never having to hire an IT firm or tech worker.

SuperMox is an operating system designed to work on ALL of your devices, joining them all into one supercomputer cluster, secured with blockchain encryption and biometrics, and designed to operate almost identically to the existing Android OS, but without all the corporate and government spyware.

SuperMox is based on existing open source software, including Devuan, ProxMox, LineageOS, OwnCloud, TOR, and Purism.

SuperMox will give over the most CPU and memory to whatever device you are actively using, making even your older retired android phone into a multi-core supercomputer with instant response and nearly unlimited disk space and memory.

SuperMox will also allow you to share your computing resources with friends and family, allowing them to use unused resources in the event that your are not capitalizing fully on your infrastructure.

SuperMox will also allow you to keep anonymous, blockchain encrypted remote backups of your software on other people's hardware in exchange for you storing an equivalent amount of data for them or even other 3rd parties.

SuperMox will offer real-time payment for access to resources you are willing to share with the network for profit when you are not requiring all that incredible combined computing power, memory, and disk space. While you're asleep, or hiking, or watching a movie, all of your unburdened devices are renting themselves out real time and earning you a constant stream of cryptocurrency in the background.

SuperMox will have an extremely easy install interface, making installing SuperMox on all of your devices a no-brainer, even for grandma or grandpa.

SuperMox will be 100% open source, allowing anyone to submit potential upgrades from anywhere in the world, and being rewarded on the blockchain for their efforts by any user willing to contribute for

the new features they are enjoying. In this way, we hope to radically decouple human innovation from the existing corporate hegemony of proprietary standards, forced upgrades and staged product roll-outs.

SuperMox will always be backwards compatible with older versions, ensuring a consistent and reliable experience for even the least tech savvy end users.

By abstracting the data and resources from any single individual device, this will rapidly drive down the costs of IT infrastructure globally, lowering the barrier to entry, and driving ever more adoption even in the most impoverished economies in the world, and driving a huge influx of users sharing their experiences, making small design improvements, logging collaborative feature requests, and helping other users either for free or for blockchain incentivized rewards. In this way, SuperMox will rapidly and radically improve constantly and organically, eventually supplanting all proprietary software and ecosystems with a highly superior free alternative.

It's time that we make computers work for you. Rather than forcing you to work for your computers. And it's time to take our data back and eliminate even the possibility of Big Brother, whether that be corporate or governmental.

The Design:

We will be using mostly existing Open Source Code, but combining it all into a very easy to use interface that is radically simpler than anything that exists today.

The back end will be a version of Devuan, utilizing ProxMox clustering and virtualization technologies, and the user interface will be the "Lawn Chair" launcher on a LineageOS vm.

Realtime monitoring and management of cluster resources will be handled by a lightweight and very simple modification of the Icinga Network Services platform.

Data will be stored on a distributed blockchain spread across all of the devices in the cluster. Assigning priority to specific data will have a simple and intuitive UI.

Installing a new node to the cluster (adding a device) will be as easy as scanning a QR code.

Security will be based on existing hardware biometrics, blockchain based encryption, and 12 word backups.

Traffic will be onion routed, both locally, and over the broader cryptographic network.