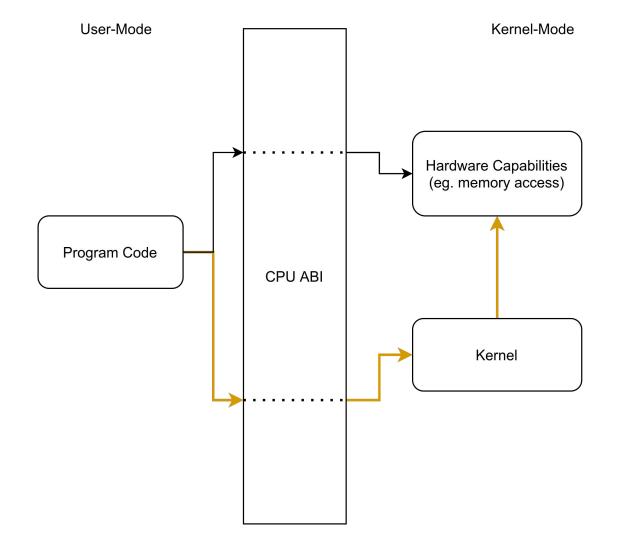
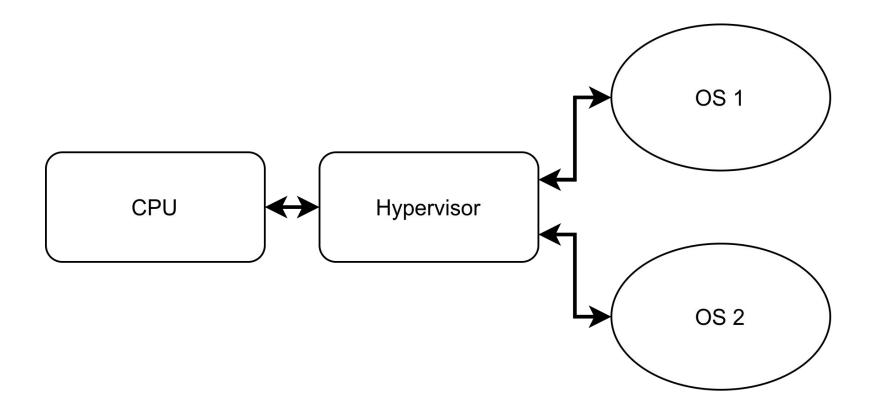
Containers

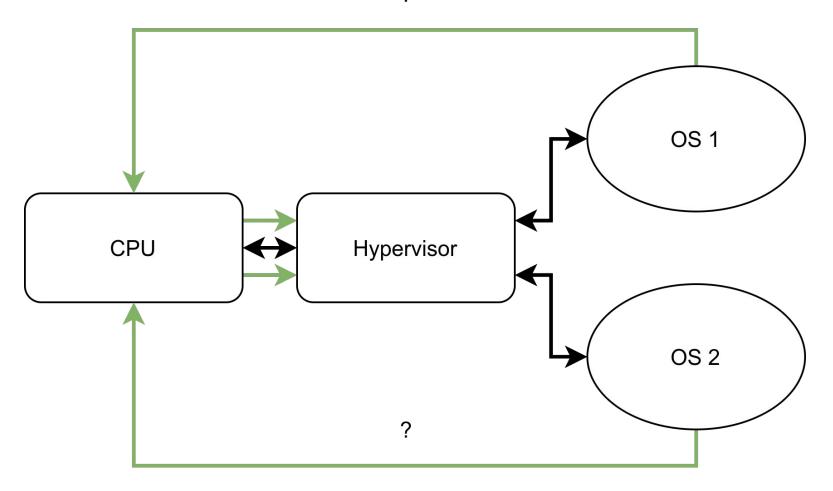
A History

The World



Virtual Machines





Back to the Drawing Board...

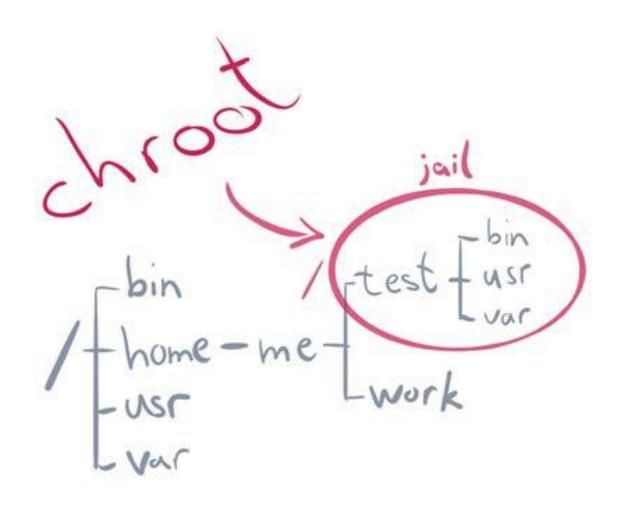
Problems with the OS

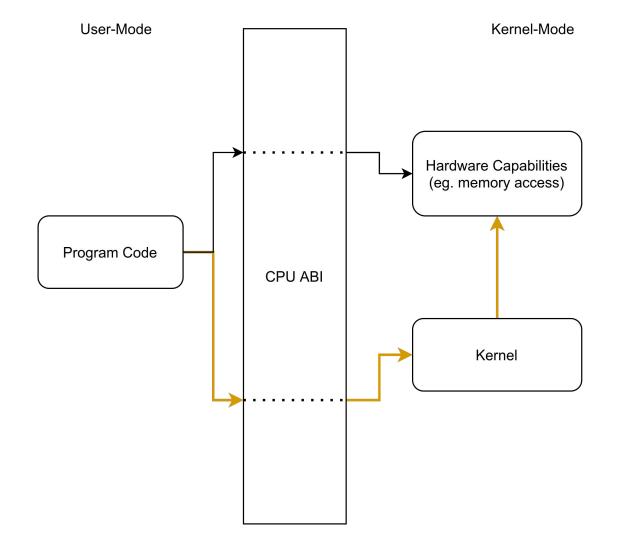
- 1. Security
- 2. Managing Resources
- 3. Versioning

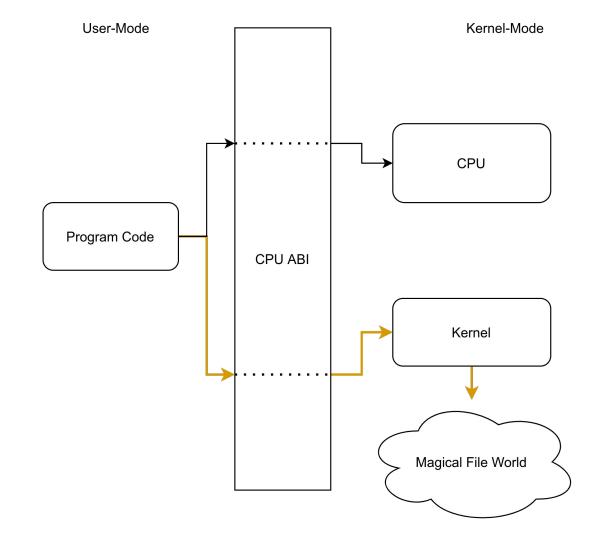
Solving Security with Capabilities

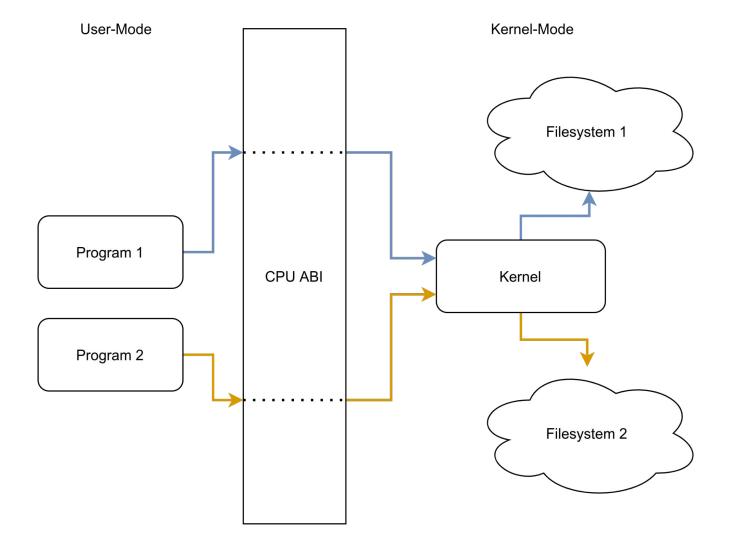
Solving Resource Management with Cgroups

Solving Versioning with Namespaces









Containers!

- 1. Are allowed to touch only certain things.
- 2. Can be controlled easily.
- 3. Don't mess up anybody else's files.

Containers: Packaged Applications?

Historical Parallels

- C's <include> to C++'s "using namespace std".
- Directories
- Invention of the Process