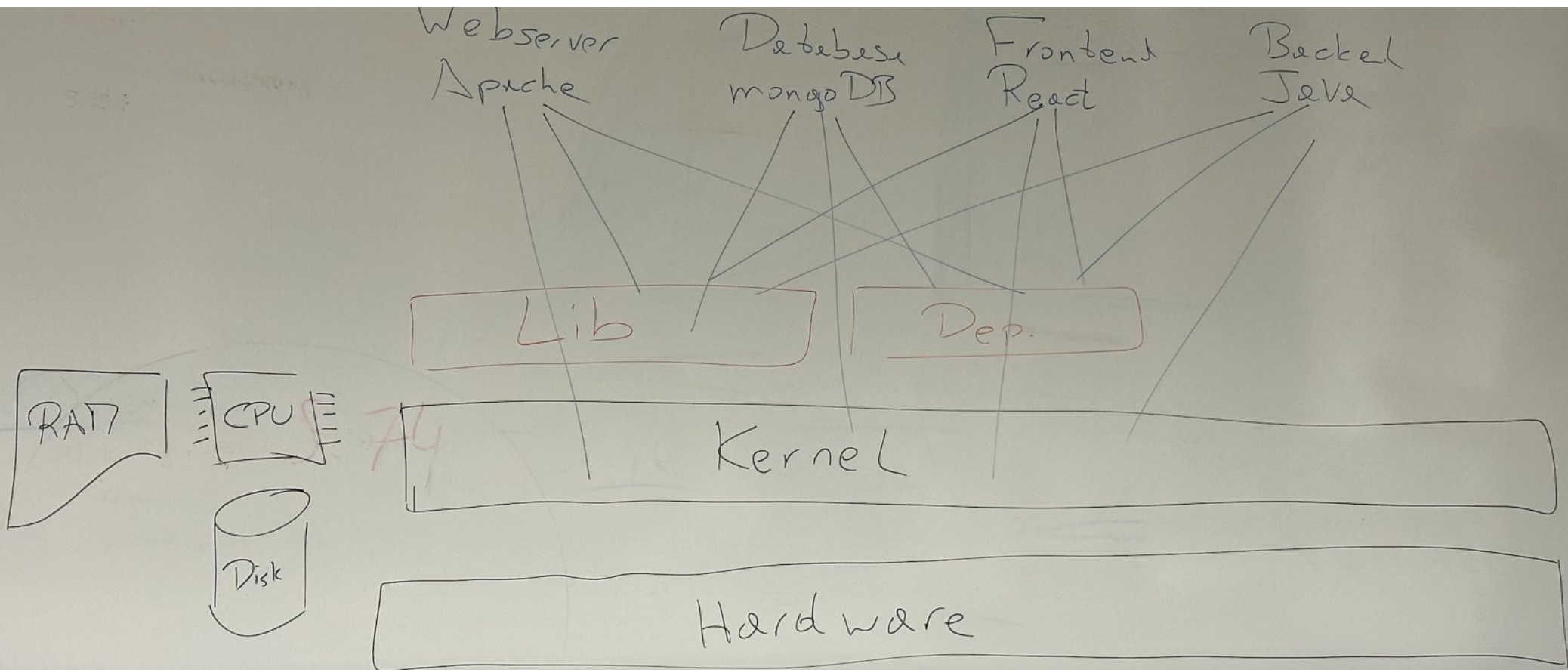


Architecture

Mag. Thomas Griesmayer

Compatibility / dependency Classical software development
Setuptime
Different environments



Classical software development

Projektsetup: austesten von Software

webserv
er
Apache
HTTP
Server

database
Oracle mysql
mongoDB Neo4J

frontend
React,
Javascript, CSS,
HTML, Angular,
jQuery

backend
Python, PHP,
Java, C#, Perl

same kernel



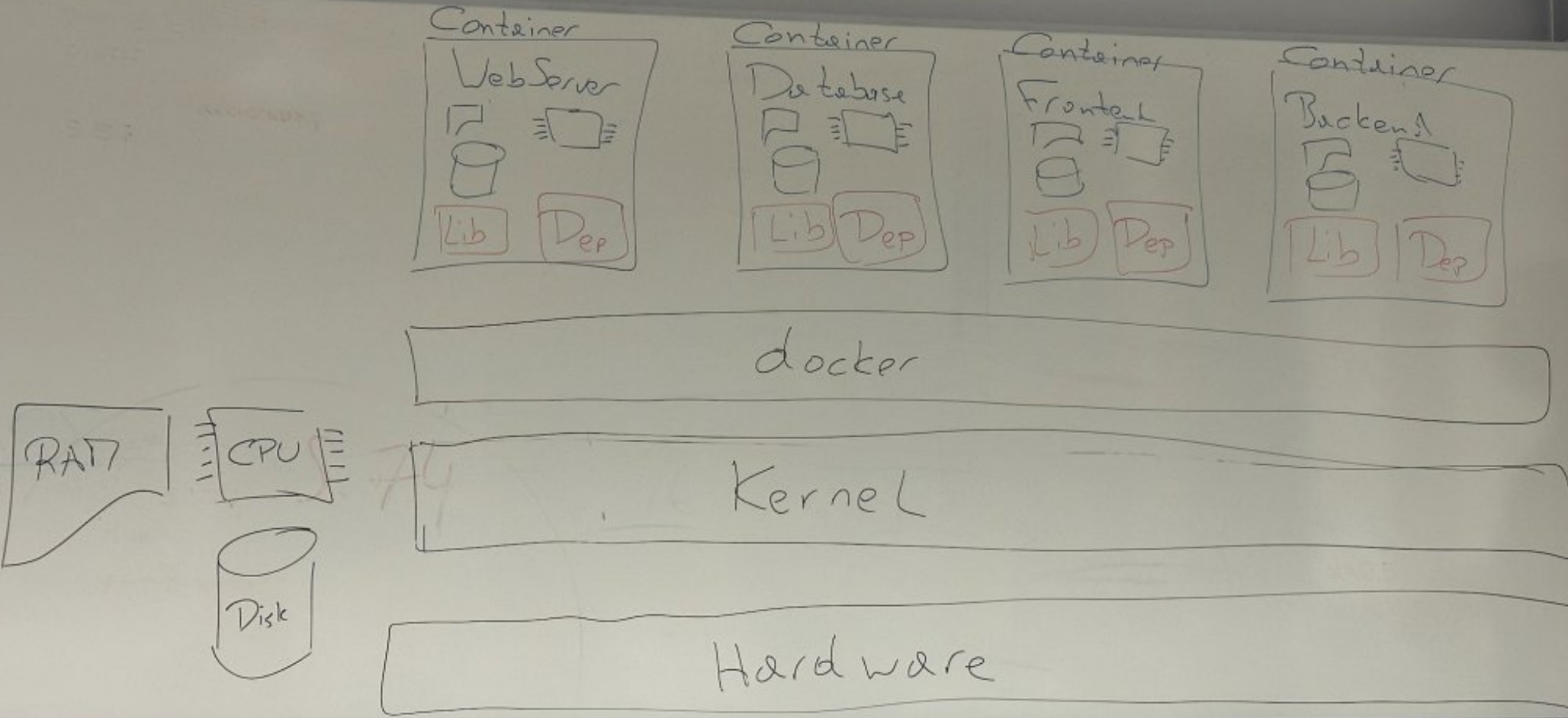
Software / Packages Office

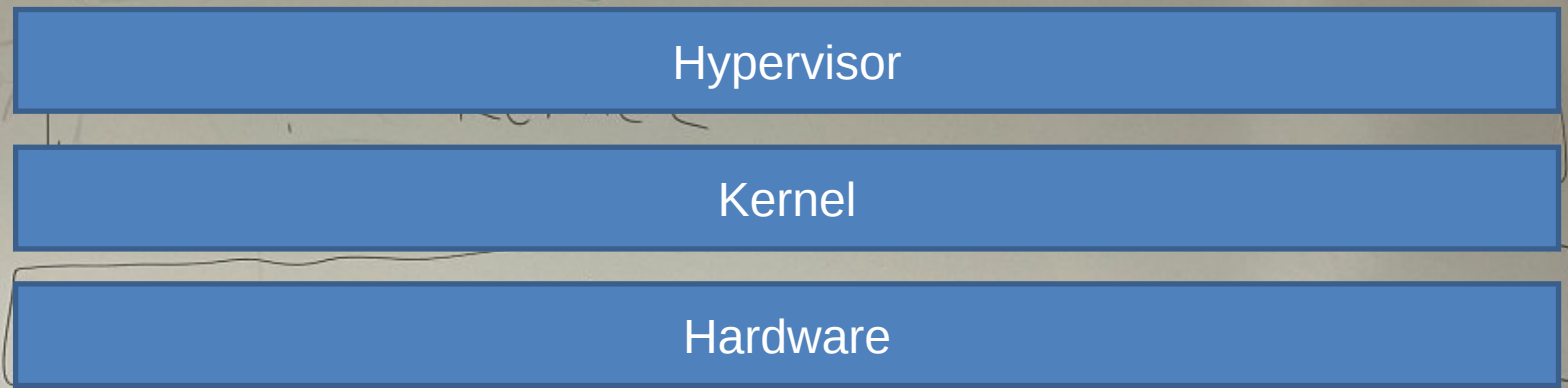
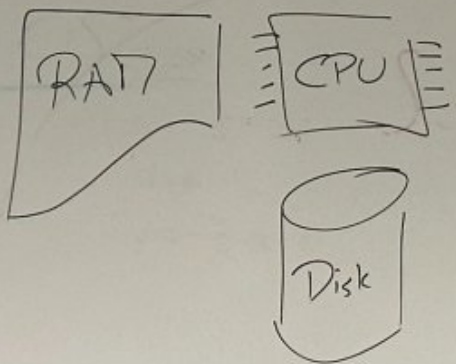
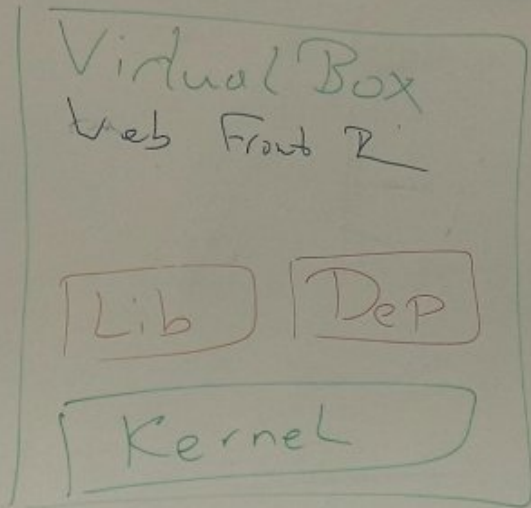
docker

Kernel

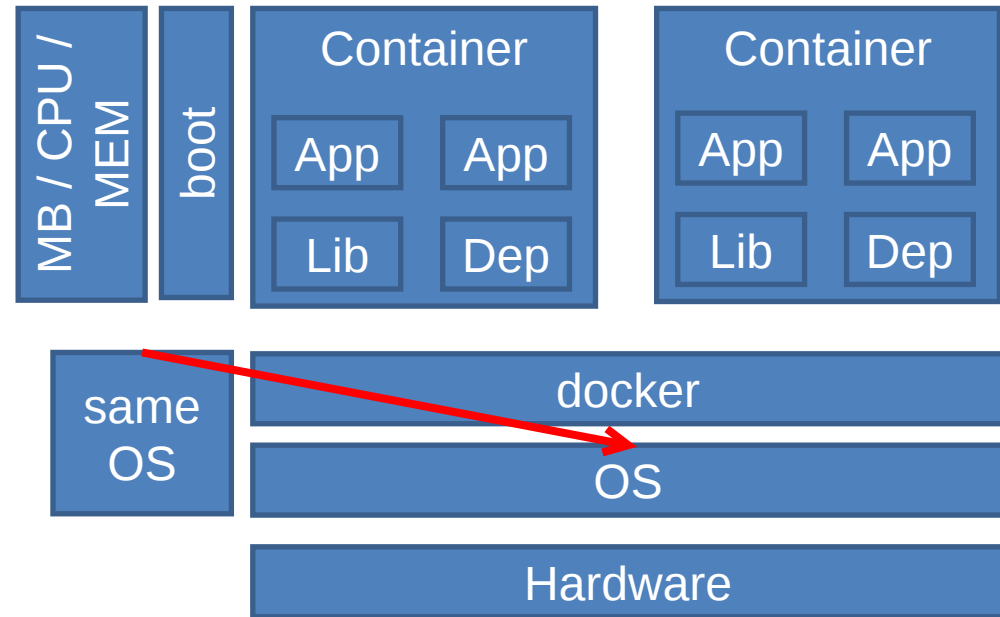
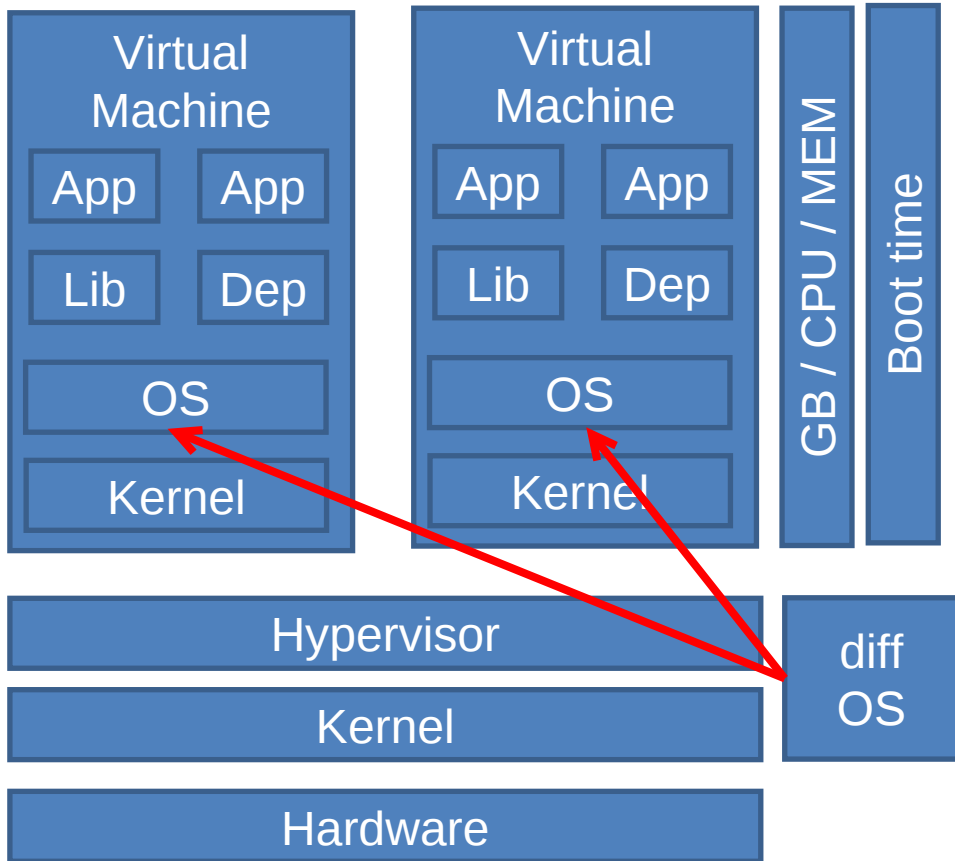
Hardware CPU Memory HD

docker container

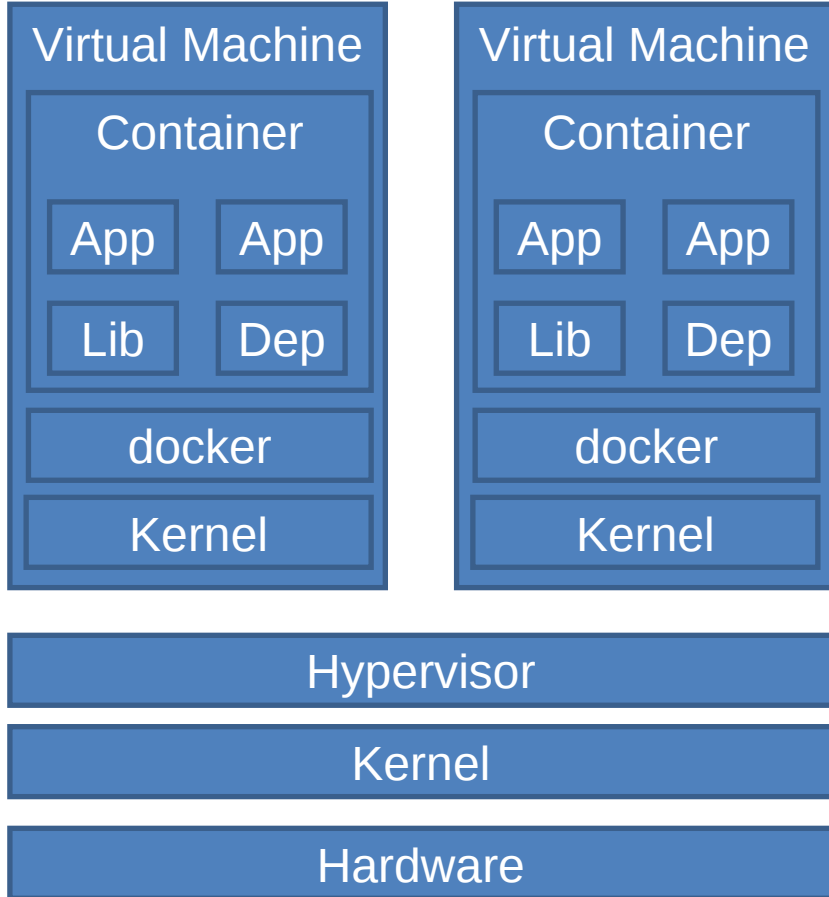




VM vs. docker



VM and docker



<https://hub.docker.com>

Image vs. Container

```
$ docker pull hello-world  
$ docker pull mongo-express  
$ docker pull apache  
$ docker pull python
```

```
$ docker run hello-world  
$ docker run mongo-express  
$ docker run hello-world  
$ docker run apache  
$ docker run python
```

>hello
world

hello-world

Updated 7 hours ago



mongo-express

Updated 19 days ago



httpd

Updated 3 hours ago

The Apache HTTP Server Project



python

Updated 10 hours ago

Container

>hello
world



>hello
world

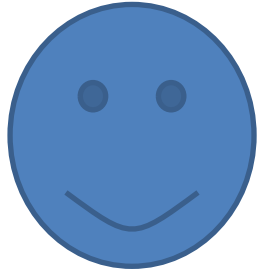


docker

Kernel

Hardware

Go-Live



Developer



Software
Lib. & Dep.
Migration Script

Go Live Manual



Operator



Image
Migration Script