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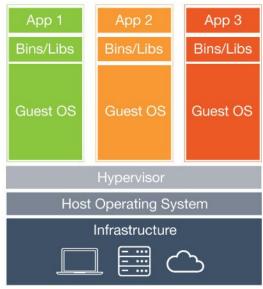


"Docker is the world's leading software containerization platform"

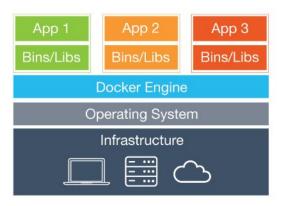


HAFT INFORMATIK 2014 ROCKET CoreOS released reference implementation of an open specification, standardizing the packaging of images and runtime environments for Linux containers 2013 DOCKER Process isolation using kernel cgroups and namespaces, combined with tools to build and retrieve named images IMCTFY 2013 Open source version of Google's container stack. Applications can be made 'container aware,' creating and manage their own subcontainers. 2011 CLOUD FOUNDRY WARDEN Initially an open source project at VMware, Warden developed a client-server model to manage a collection of containers across multiple hosts, and includes a service to manage cgroups, namespaces, LXC - LINUX CONTAINERS 2008 and process life cycle Provided userland tooling to take advantage of the cgroups and namespacing functionality in the Linux kernel 2007 **AIX WORKLOAD PARTITIONS (WPARS)** Released in AIX 6.1, allowed virtualization of an OS without creating a full LPAR on an IBM System. 2007 CONTROL GROUPS MERGED INTO LINUX KERNEL Process Containers were renamed Control Groups and merged into kernel version 2.624 2006 PROCESS CONTAINERS Developed by Google (primarily Paul Menage and Rohit Seth) to aggregate processes within the Linux kernel for resource management. **OPEN VIRTUZZO (OPENVZ)** 2005 Released by Parallels (formerly SWsoft), code was not released as part of the official Linux kernel, but offered a wide array of features include resource managements and live migration. 2004 **ORACLE SOLARIS ZONES** Similar to jails, but Zones were able to leverage features like snapshots and cloning from ZFS. LINUX VSERVER 2001 Operating System virtualization implemented by patching the Linux kernel. Experimental patches continue to be available, but the last stable patch was released in 2006. 2000 FREEBSD JAILS Introduced jails, early container technology, developed by Derrick Woolworth (R&D Associates) then adopted by Poul-Henning Kamp. 1979 UNIX V7 Developed chroot system call, which provided process isolation. Chroot was added to BSD in 1982.

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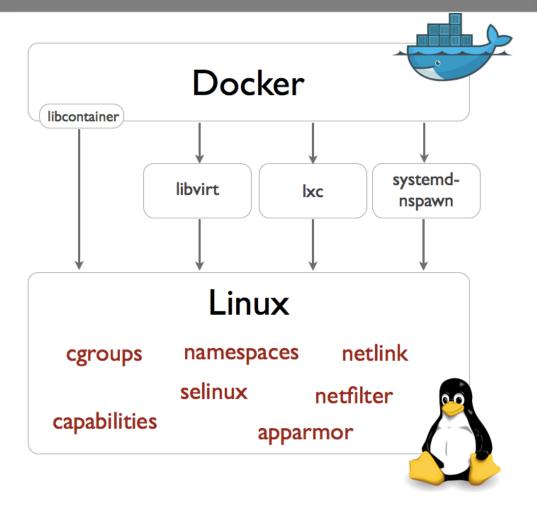




Containers



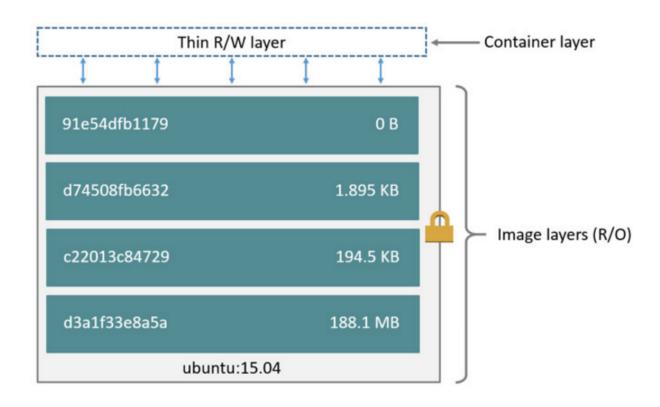
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Aufbau:

- Docker daemon
- Docker CLI
- · Docker Image Index
- Docker Images
- Docker Containers
- Dockerfiles

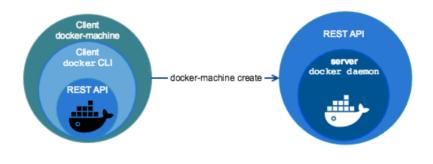
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Praktische Anwendung

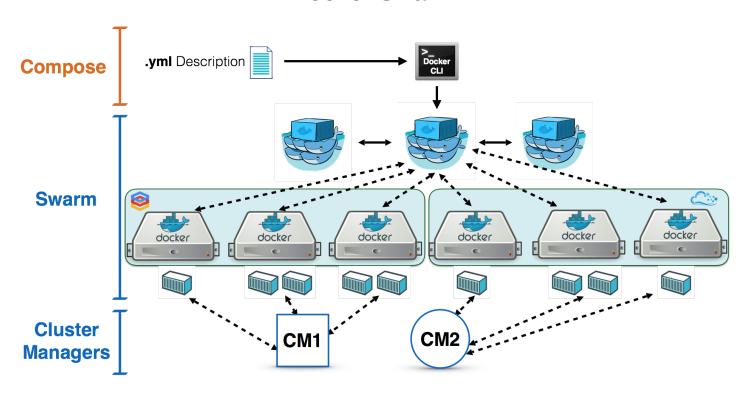
Tools – Docker Machine & Docker Compose:





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Docker Swarm





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