Механизм изоляции

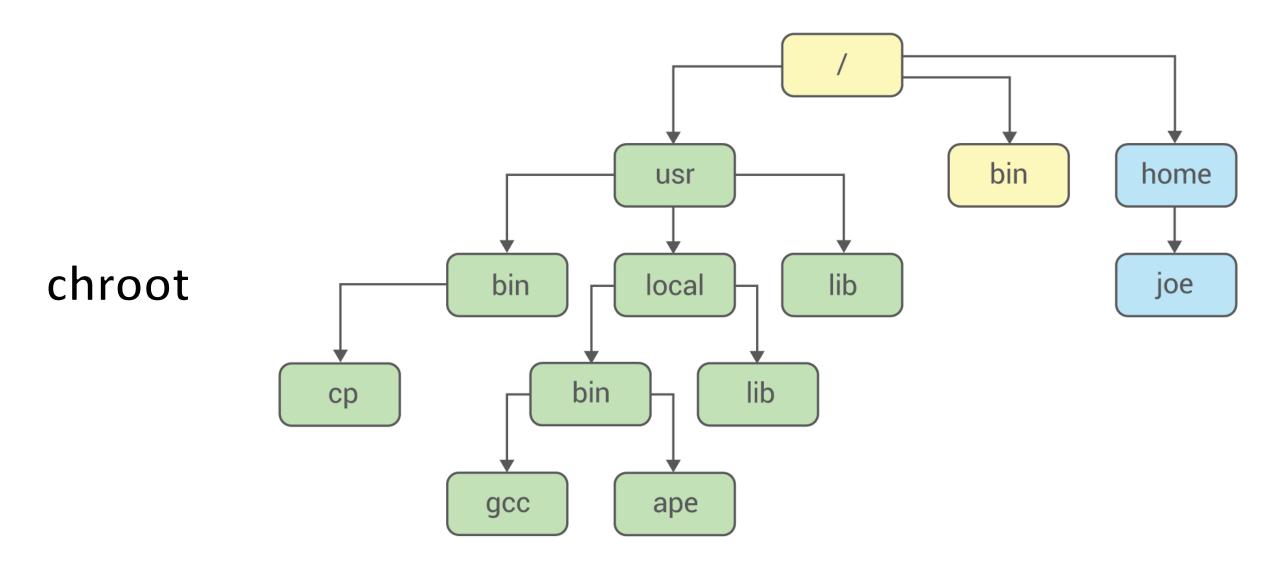
Как это работает?

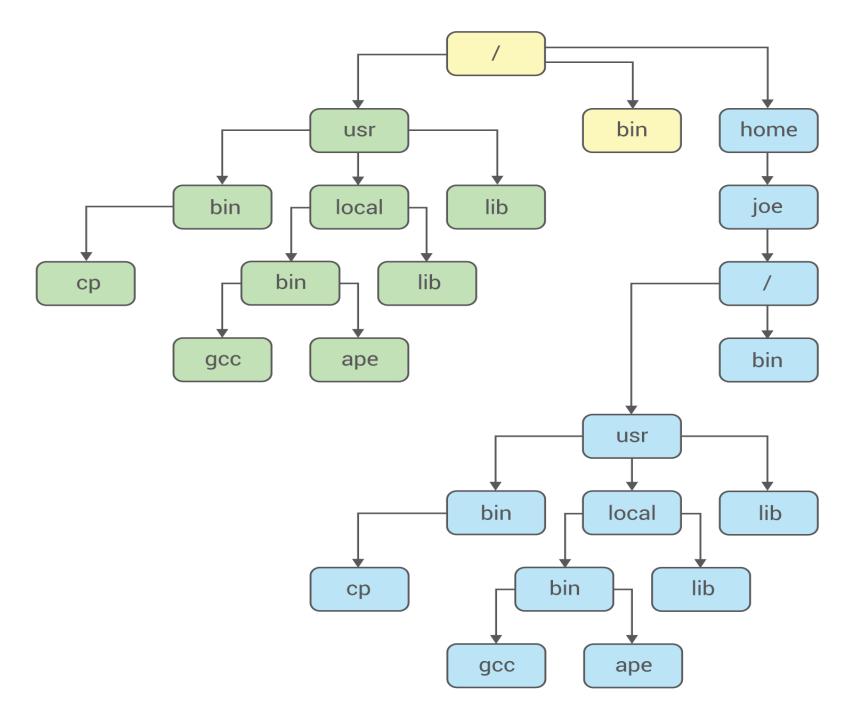
Namespaces

Cgroups

Docker daemon (Автоматизация управления)

• Вначале было слово chroot! (1982 год!)

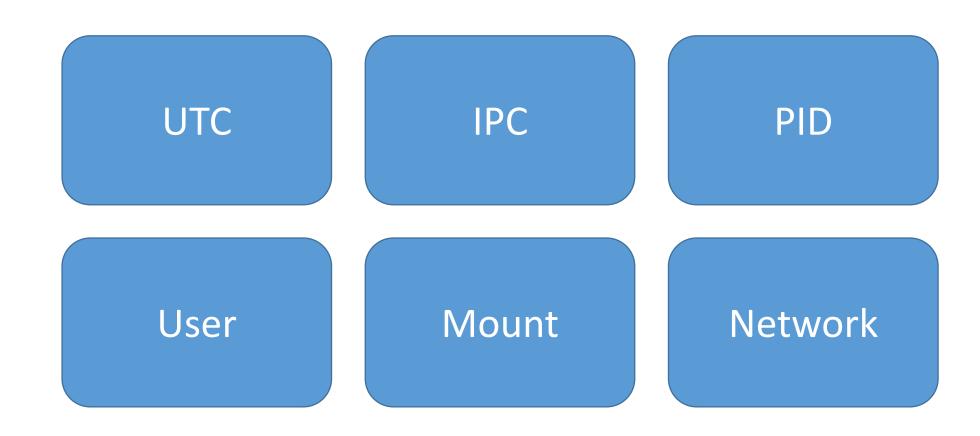




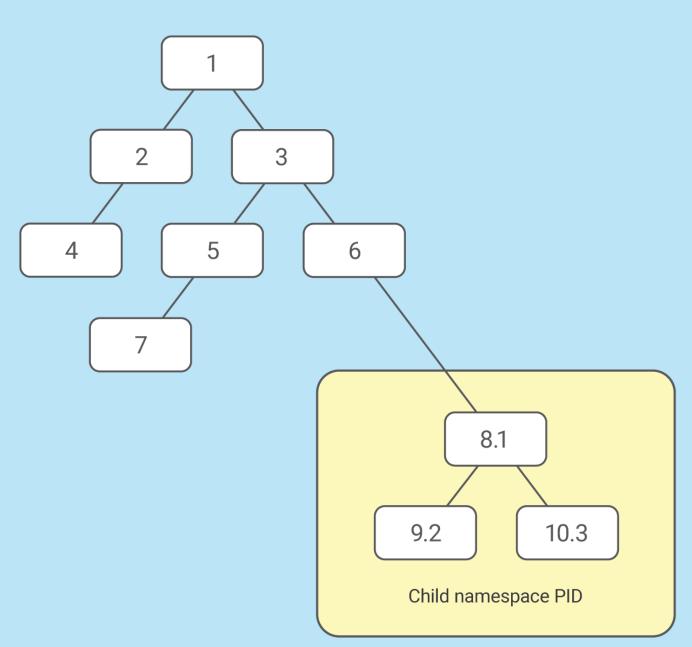
chroot

- Вначале было слово chroot! (1982 год!)
- И создал админ Jail

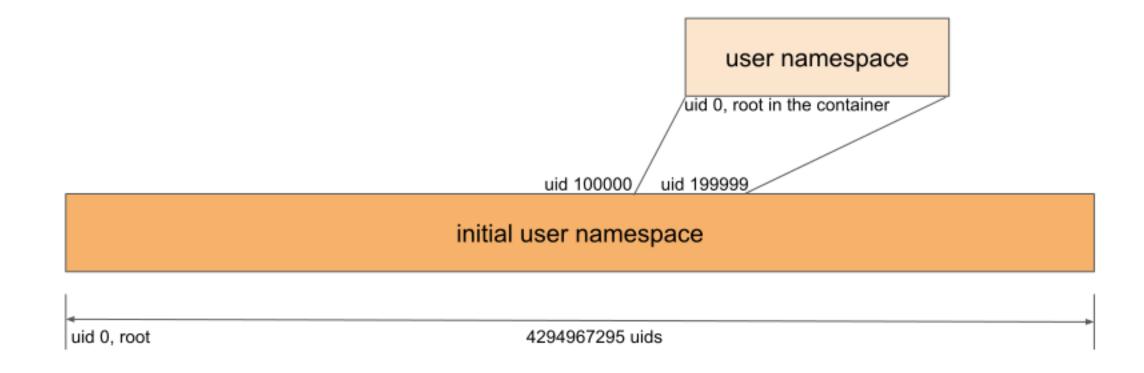
- Вначале было слово chroot!
- И создал админ Jail
- И наконец в Linux появились Namespace



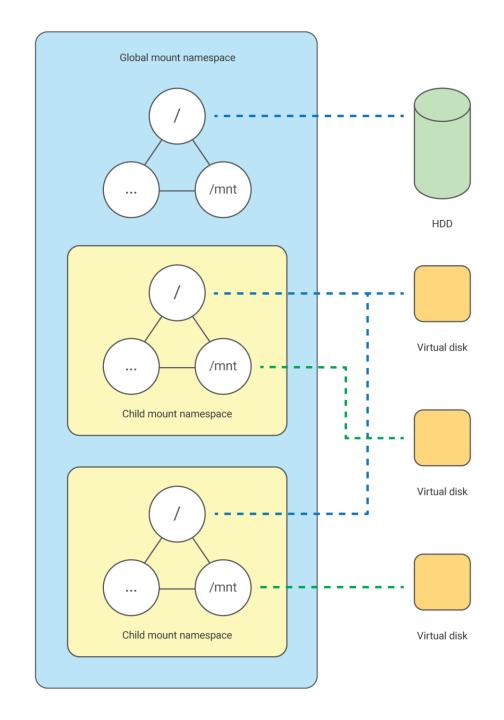
Linux namespaces -PID



Linux namespaces - User

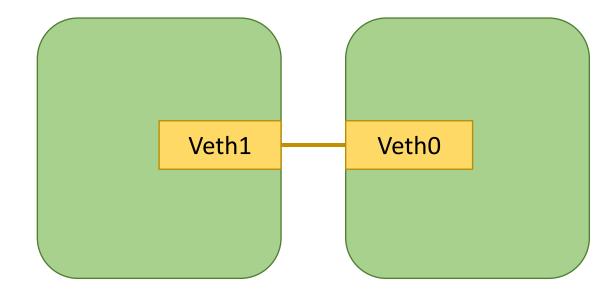


Linux namespaces – Mount

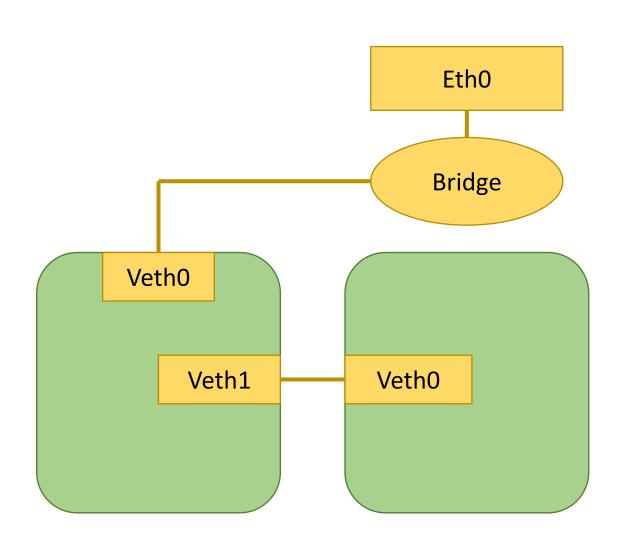


Linux namespaces - Network

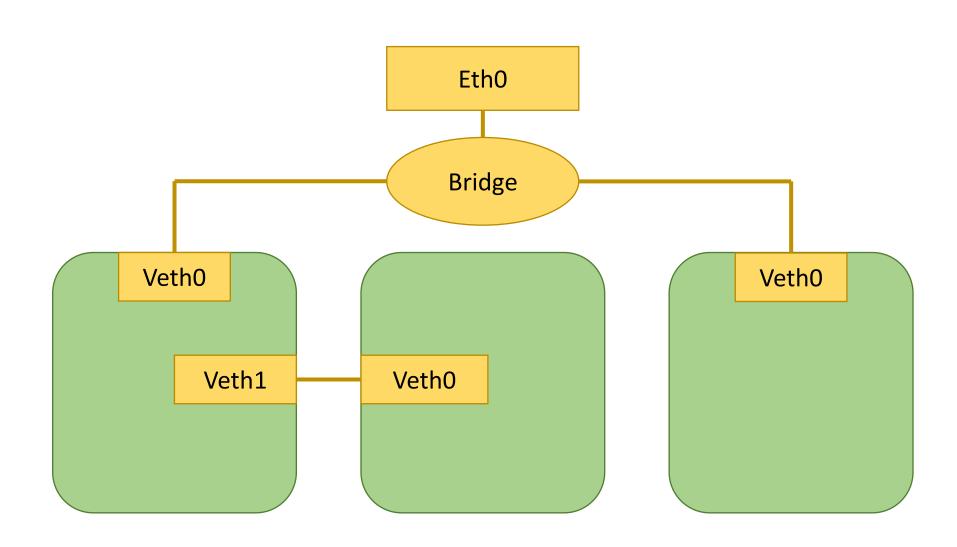
Eth0



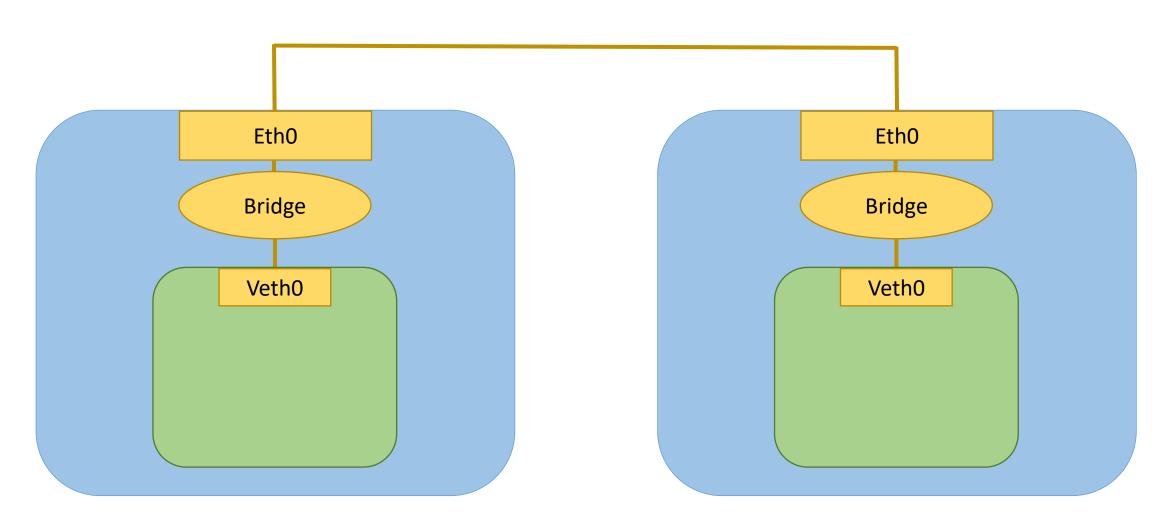
Linux namespaces - Network



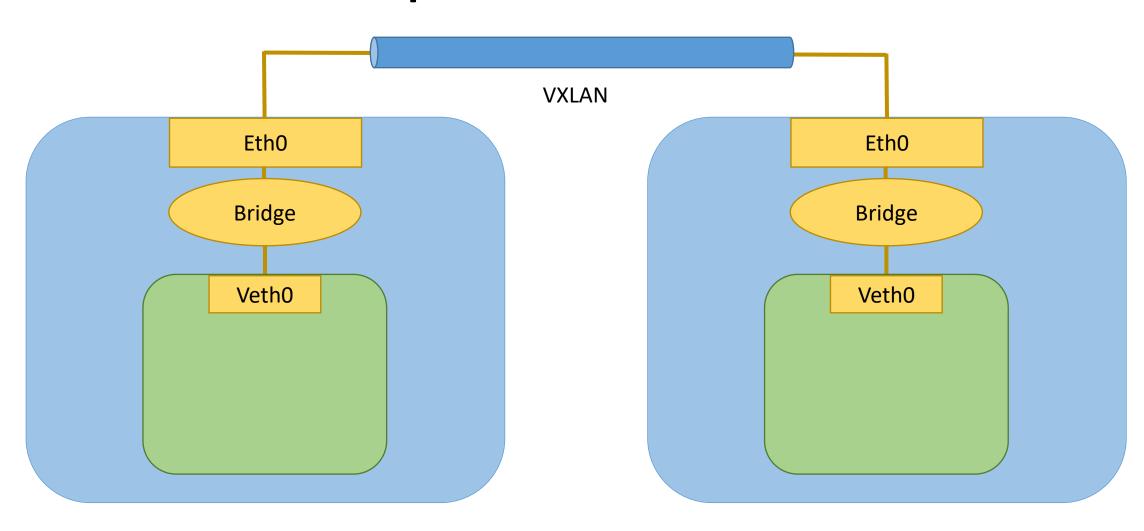
Linux namespaces - Network



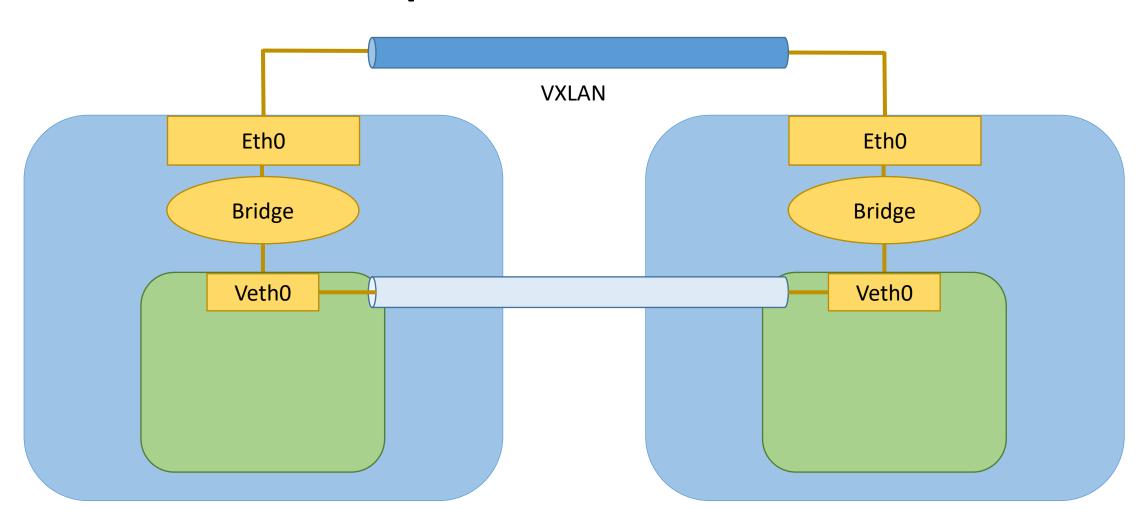
Linux namespaces – Network + VXLAN

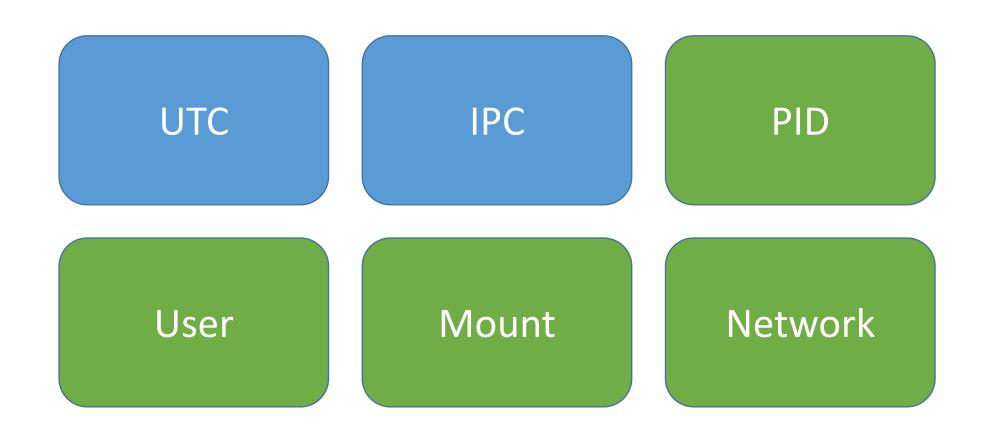


Linux namespaces - Network + VXLAN



Linux namespaces - Network + VXLAN



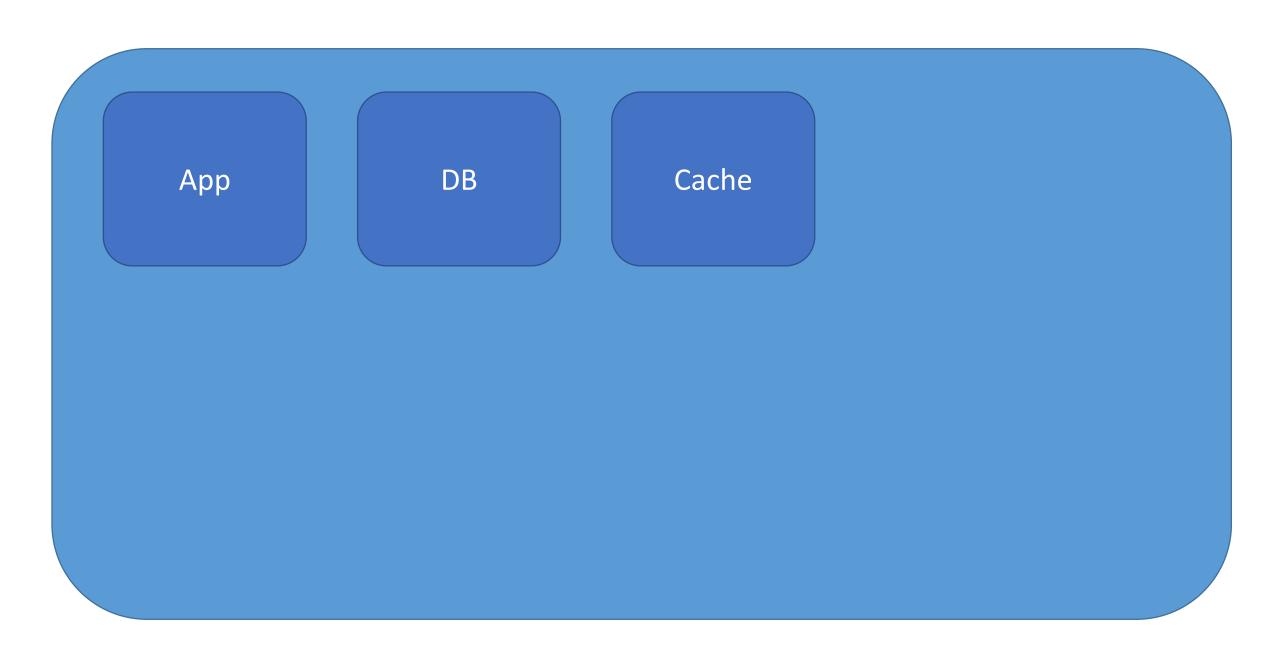


Как это работает?

Namespaces

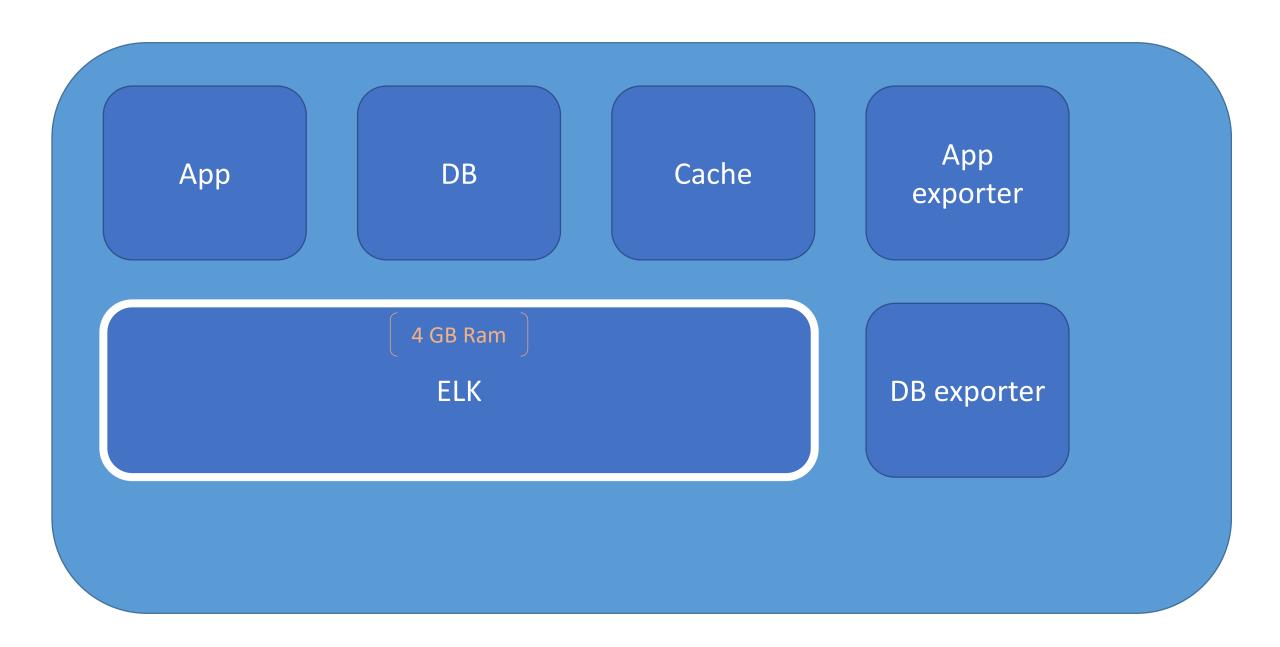
Cgroups

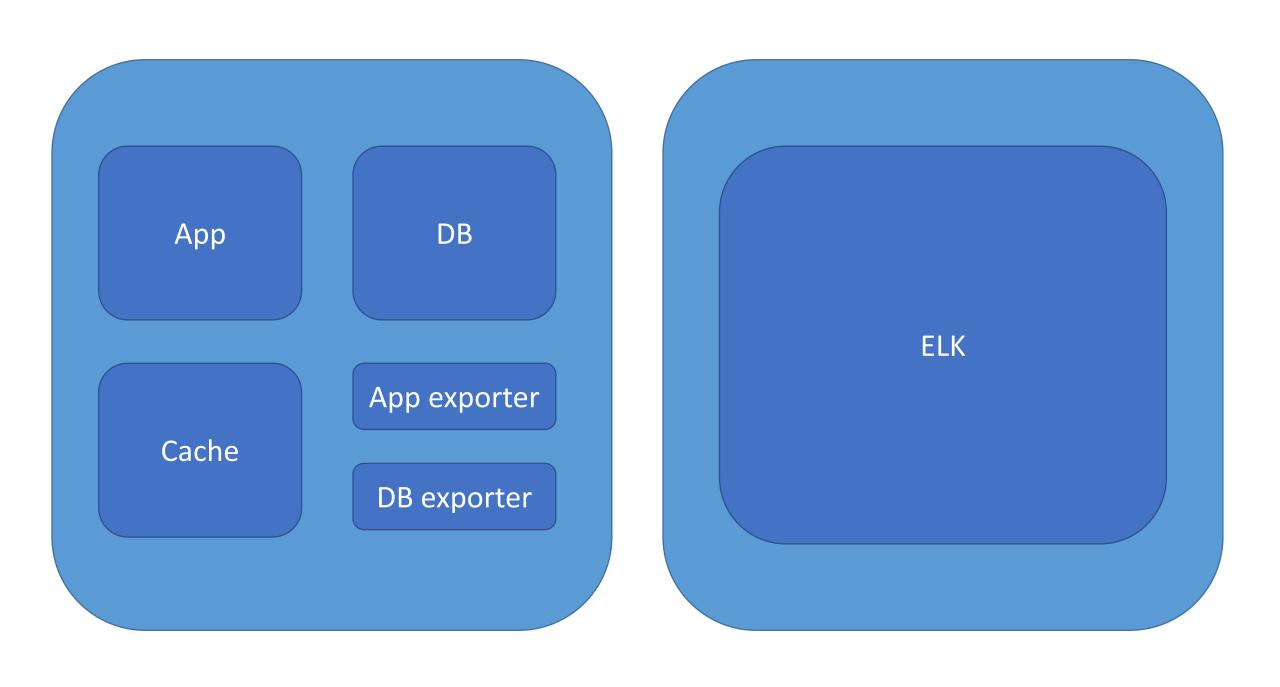
Docker daemon (Автоматизация управления)



App DB Cache App exporter DB exporter







Linux control groups

- Block devices (IOPS)
- CPU (Core, and CPU time access)
- RAM + OOM Control
- Devices
- Network packets priority QoS per network interface