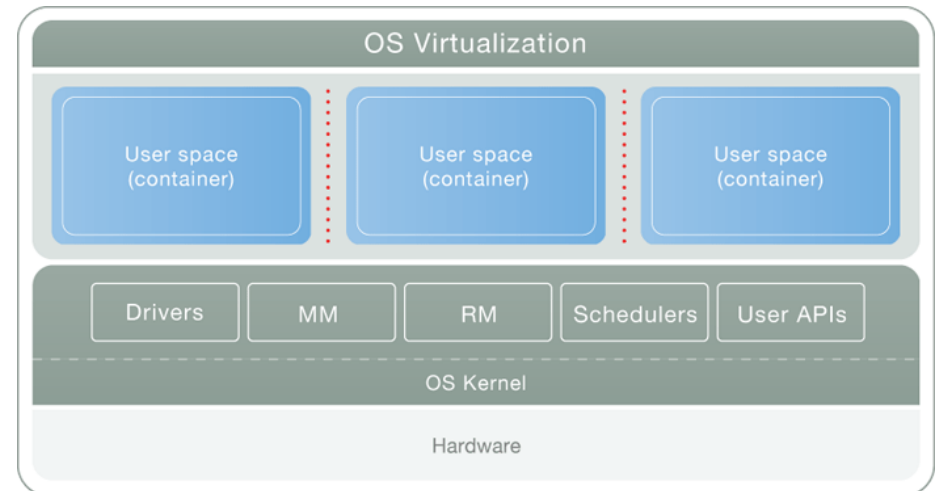
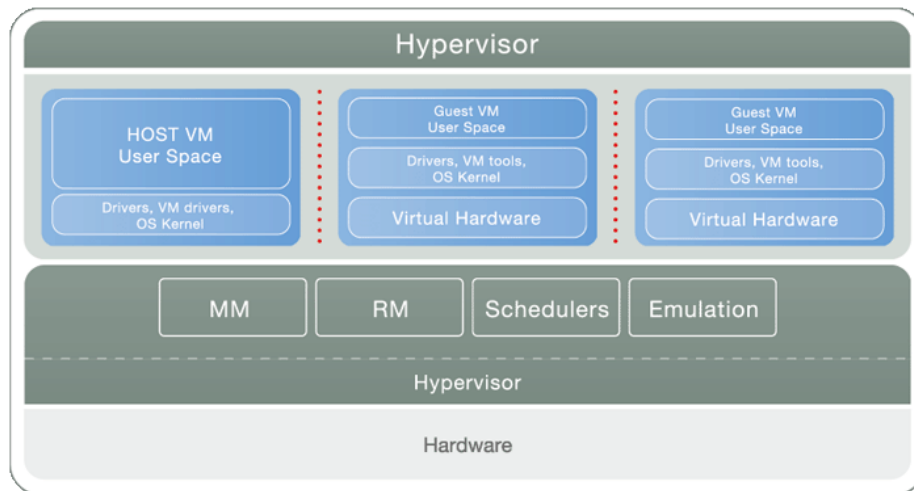




Prime Time
for
Linux Containers

THOMAS
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server.hosting.customized.



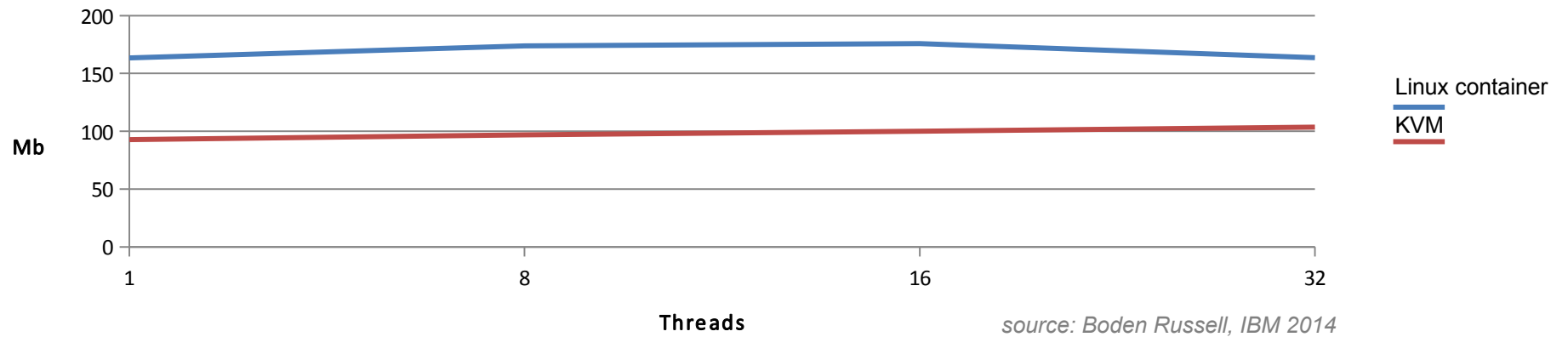
Source: <http://www.parallels.com/eu/products/pvc46/info/virtualization/>

why ?

fast, faster, **fastest**



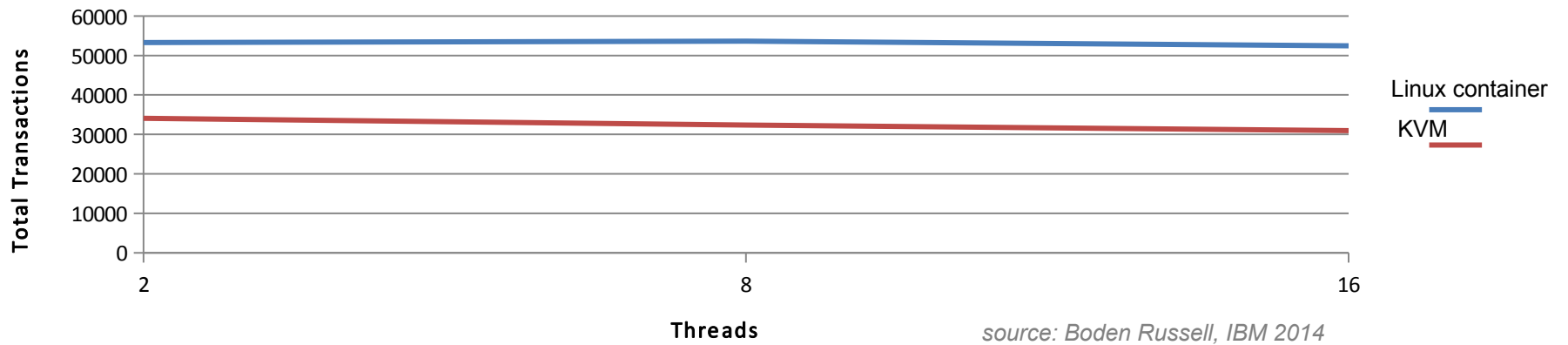
File I/O: Write



fast, faster, **fastest**



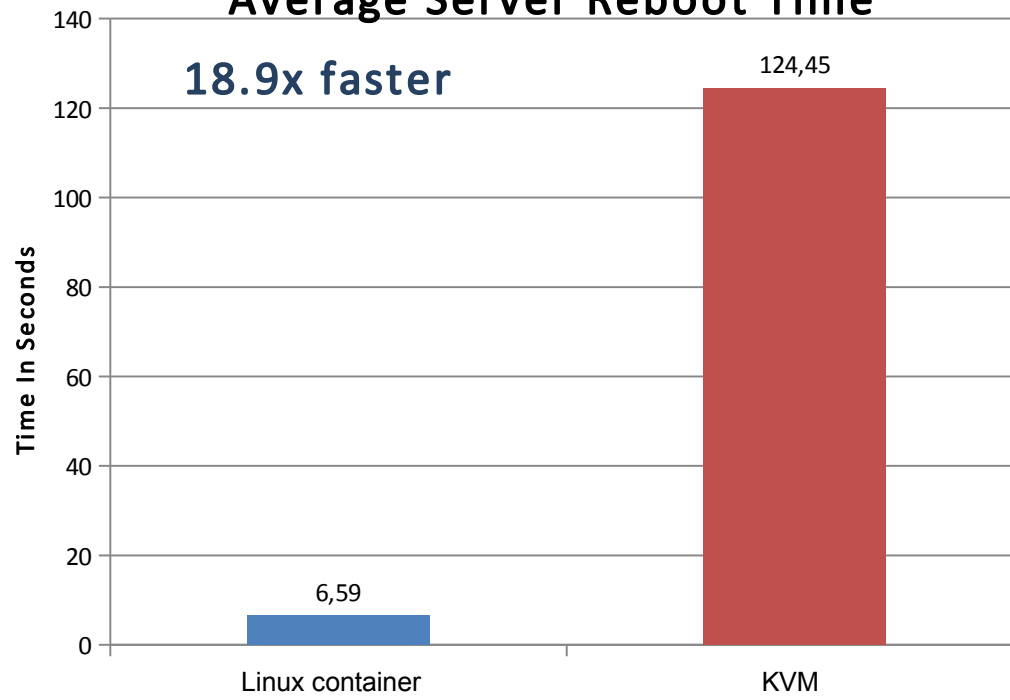
MySQL OLTP Read Transactions



fast, faster, **fastest**

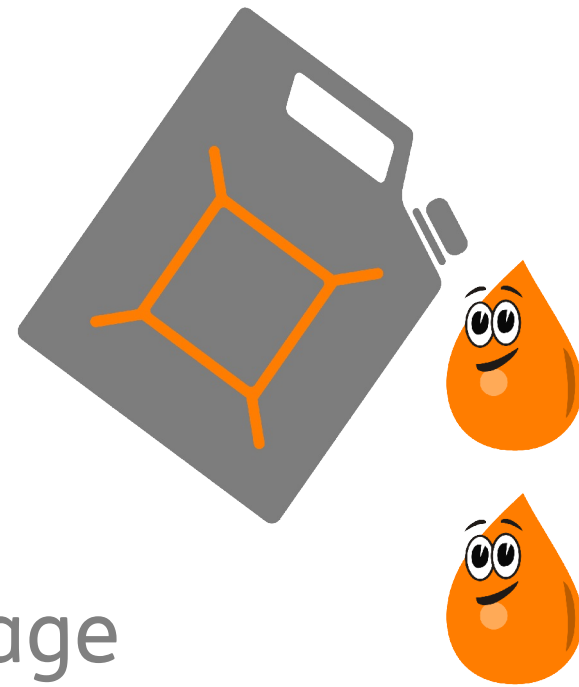


Average Server Reboot Time



source: Boden Russell, IBM 2014

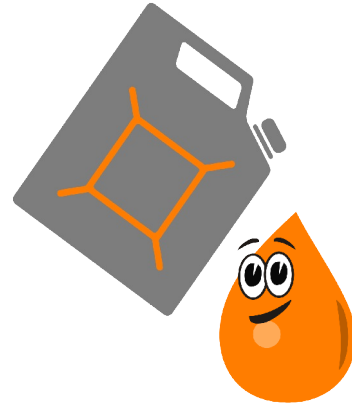




resource usage

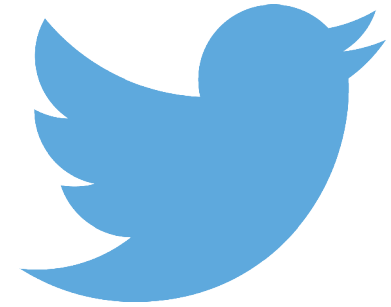


3x memory savings
26x cpu savings
3.22x smaller images
source: Boden Russell, IBM 2014
resource usage





Google

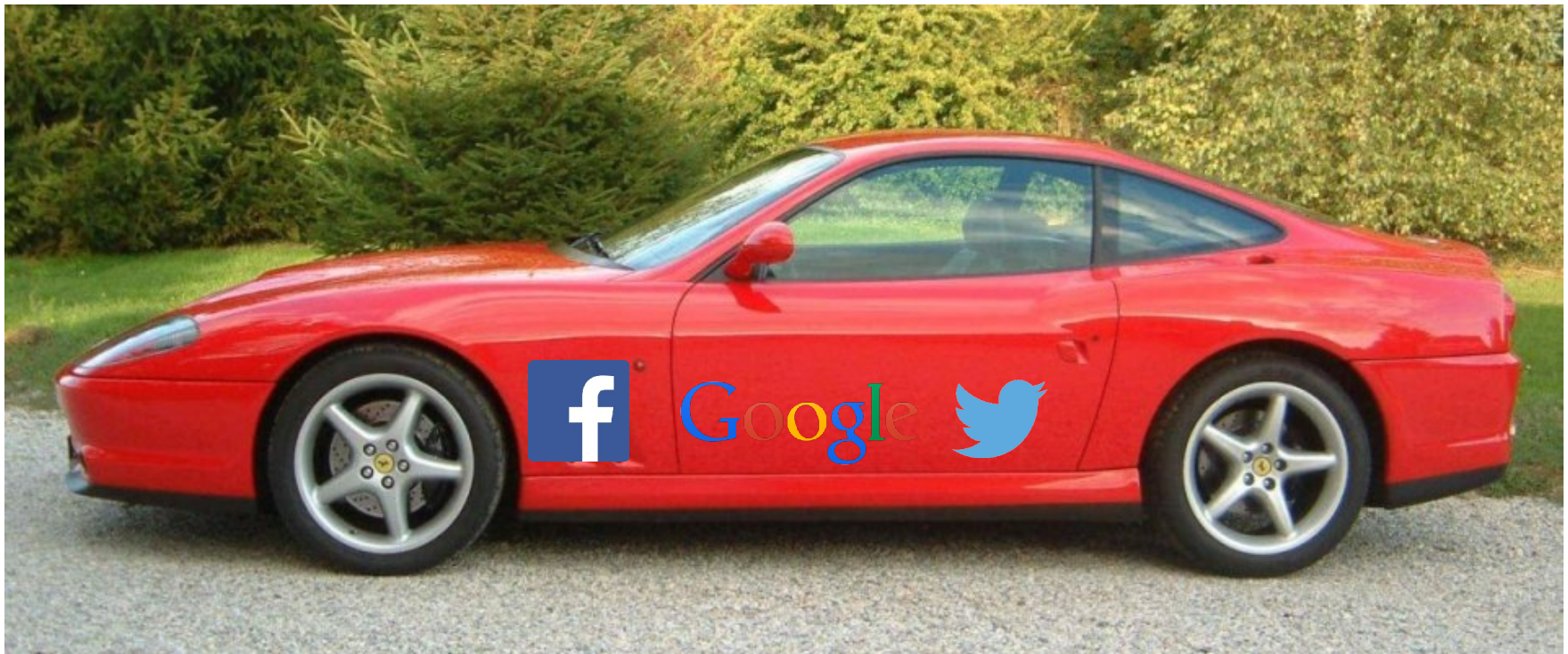


widely used





widely used





how it works ?

cgroups

capabilities

kernel namespaces

apparmor/selinux/seccomp

unprivileged containers

userspace tools



LXC

lmctfy

(let me contain that for you)

OpenVZ

libvirt

docker, openstack, vagrant, ...



LXC 1.0

part of **ubuntu 14.04** LTS
→ 5 years support

liblxc **API**

unprivileged containers

prebuilt containers
→ jenkins.linuxcontainers.org

container nesting

cgmanager
→ for cgroup-mgmt

A photograph of a theater stage with large, red, vertically pleated curtains. The stage is dimly lit, with a warm glow from the curtains. In the foreground, the dark silhouettes of an audience's heads are visible, looking towards the stage. The word "showtime" is overlaid in white, bold, lowercase letters in the center of the image.

showtime

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