



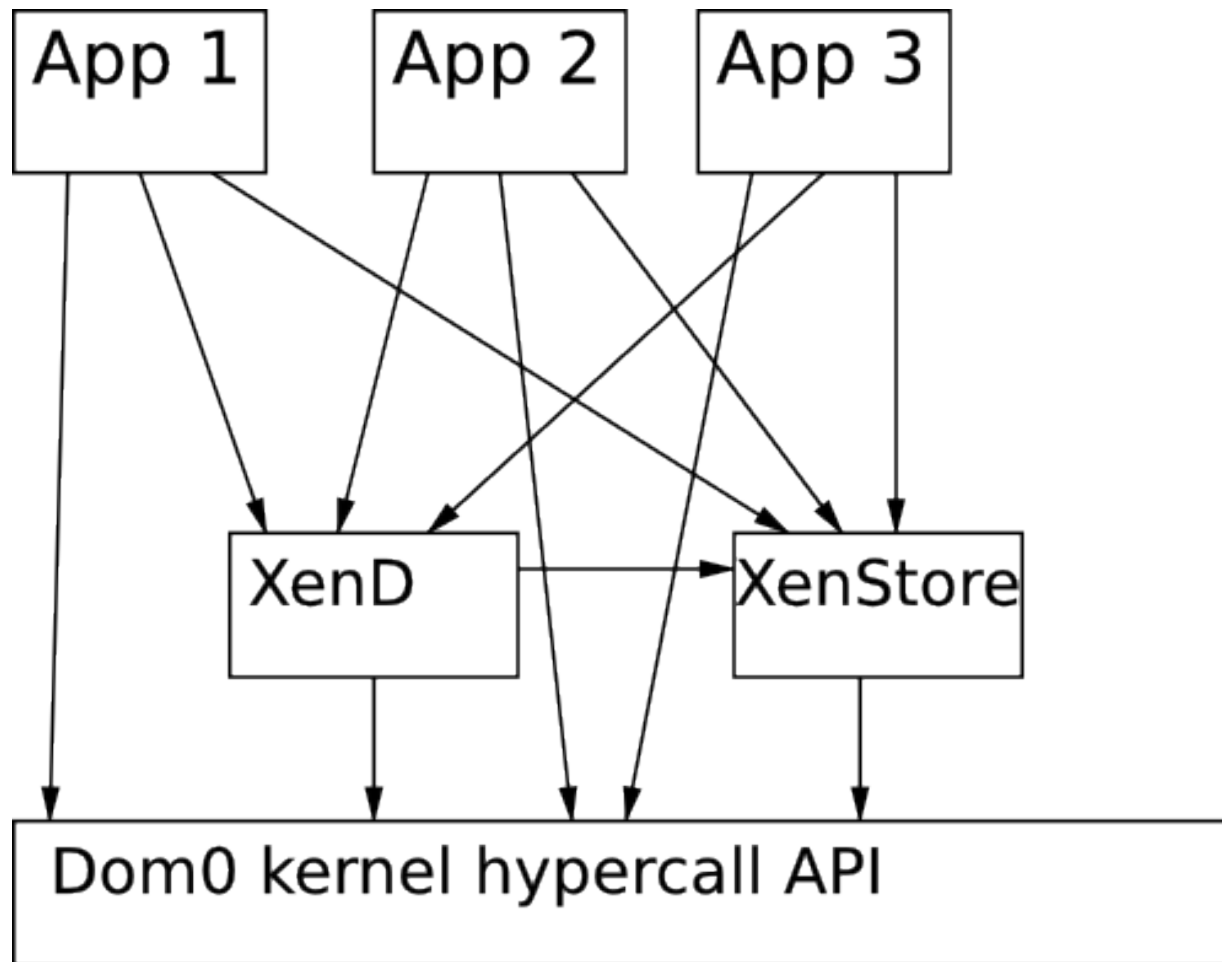
Daniel P. Berrangé
Principal Software Engineer, Red Hat

libvirt: Why ?

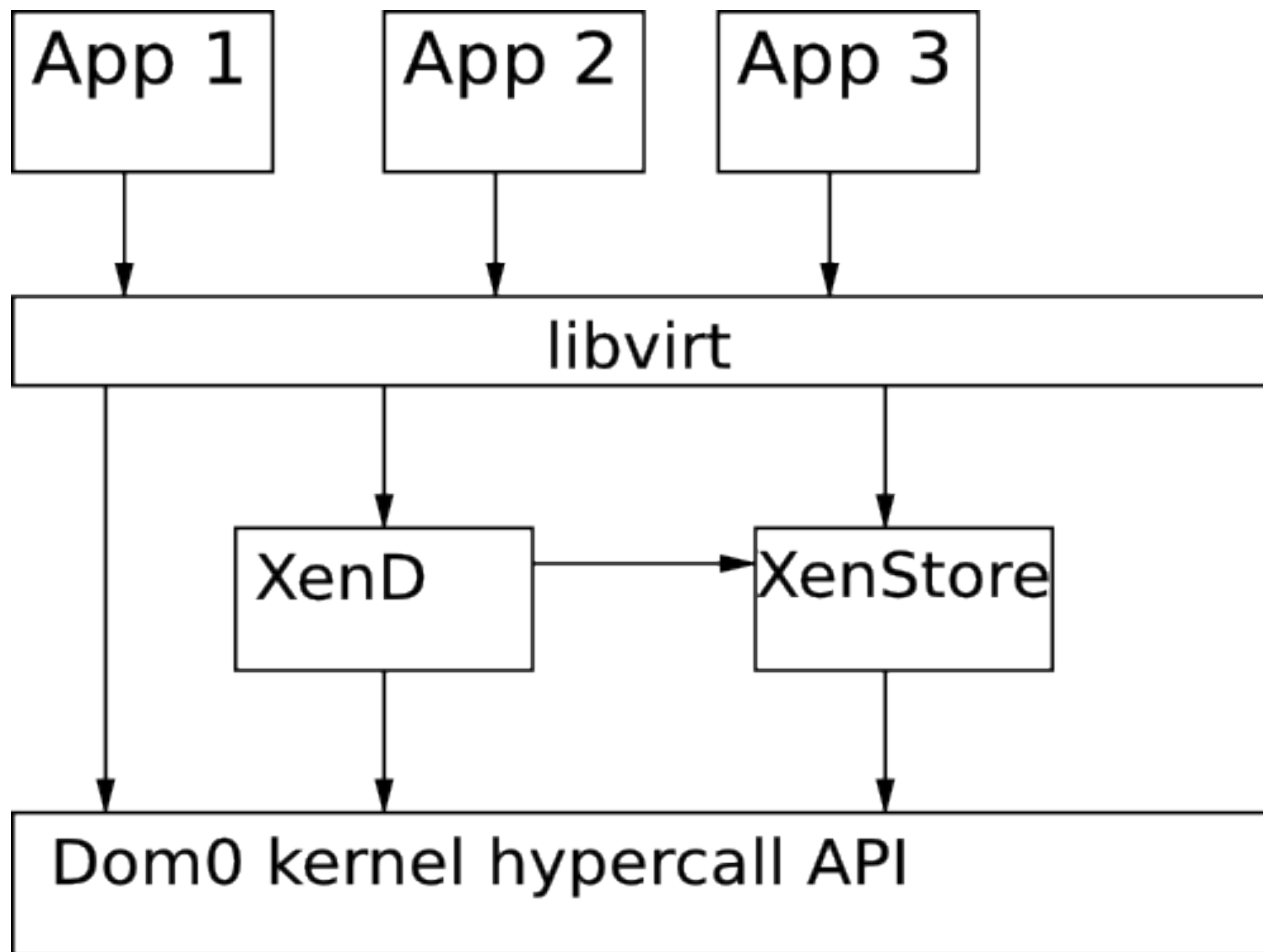
Reasons to use libvirt

- Stable: isolation from hypervisor API changes
- Standard: portable across hypervisors
- Simple: application development in C, Python, Perl, OCaml
- Portable: Linux & Solaris; Windows and OS-X clients
- Secure: TLS/SSL + x509, Kerberos, SSH, PolicyKit

libvirt: Xen



libvirt: Xen



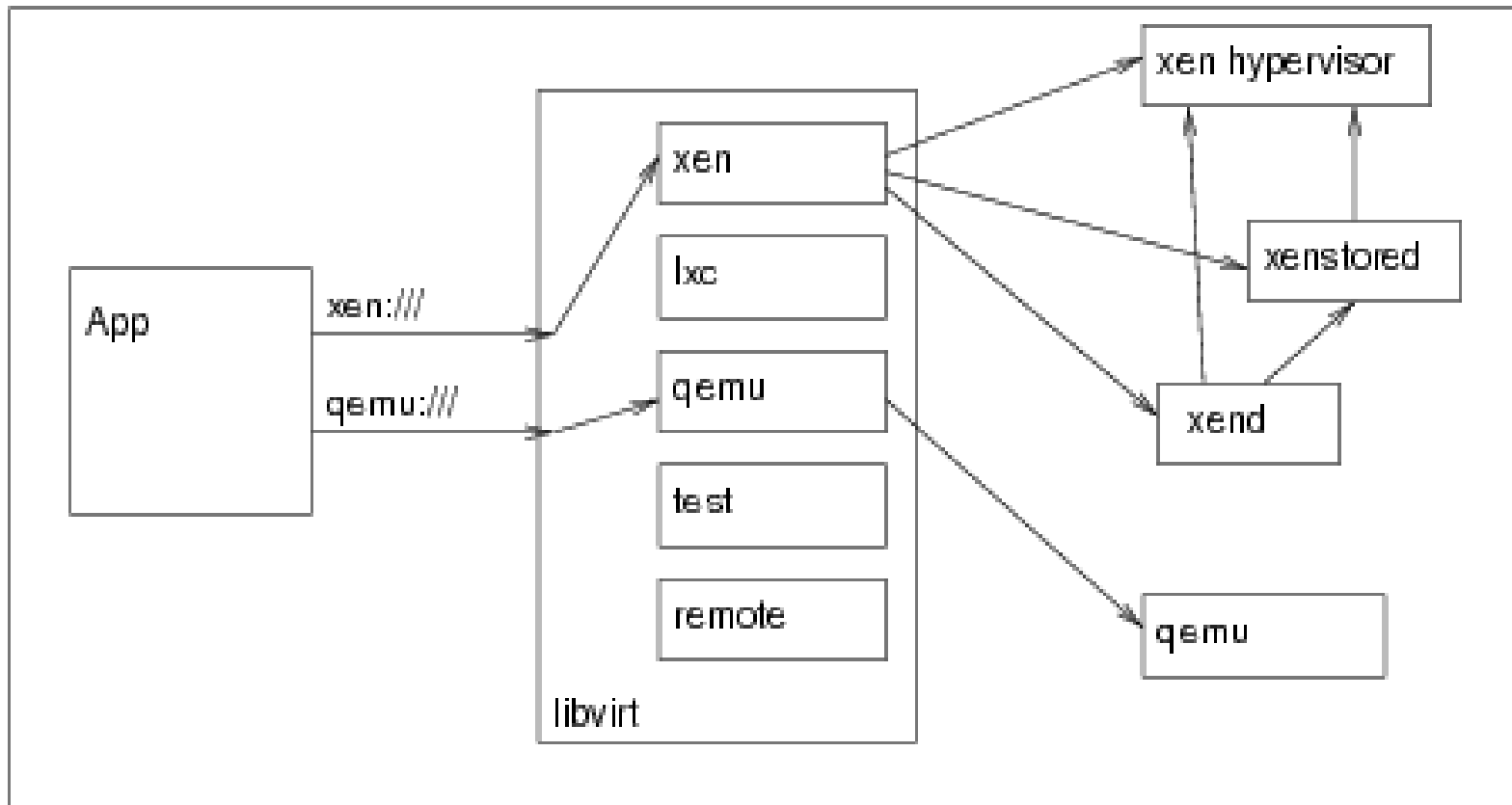
libvirt: What ?

Implemented drivers for

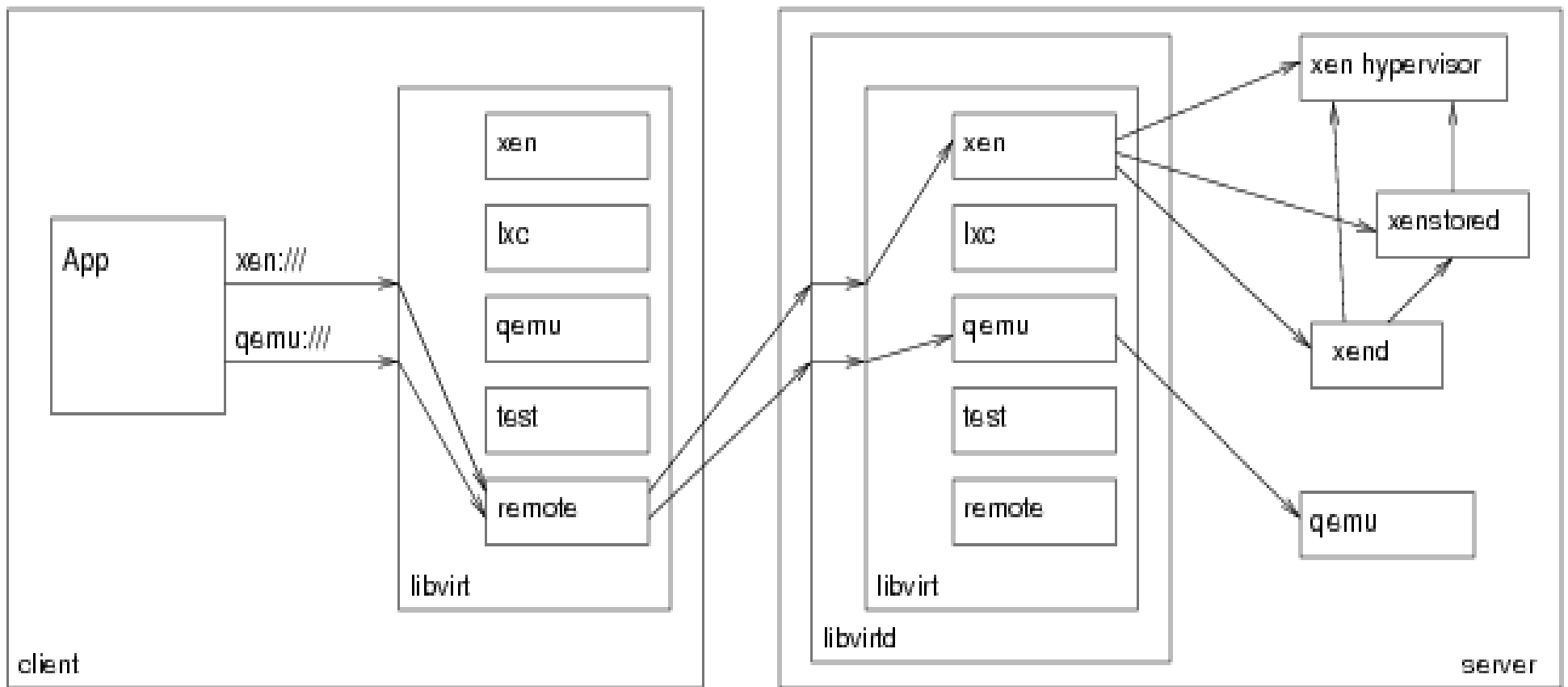
- Xen: XenD, XenStore, hypercalls
- QEMU: KVM, KQEMU, QEMU and Xenner
- LXC: native Linux containers
- Remote: secure network RPC
- Test: mock hypervisor for testing

Future... VMWare ? Hyper-V ?

libvirt: How ?



libvirt: How ?



libvirt: Who ?

General purpose admin tools

- virsh: command line administration / scripting
- virt-manager: desktop management UI
- virt-viewer: secure guest console access

libvirt: Who?

Provisioning virtual machines

- virt-install: OS distro install media
- virt-clone: copying existing machine
- virt-image: deploying pre-built appliance image

libvirt: Who ?

oVirt data center management

- Web user interface
- Kerberos authentication w/ FreeIPA
- iSCSI / SAN storage
- Host clustering & failover
- Guest clustering & virtual fencing

