Sheepdog: Distributed Storage System for Virtual Machines

Overview
Sheepdog is a distributed storage system for virtual machines based on Linux® QEMU/KVM®. It runs on multiple commodity servers and provides highly available and variably sized volumes to virtual machines. Sheepdog is an autonomous system; new servers join automatically, and failed nodes are automatically removed. In addition, Sheepdog scales to hundreds of servers and has linear scalability.

Features
- Reliable system with no single point of failure
- Autonomous and easily manageable system
- Scalable to hundreds of servers in performance and capacity
- Developed as open source software and merged into QEMU/KVM
- Supported by many other management systems (e.g. OpenStack, libvirt)

Application scenarios
- Infrastructure as a Service
- Hosting service based on virtualization
- Server consolidation of many servers
- Online storage service

*1 Linux is a registered trademark of Linus Torvalds in the U.S. and other countries.
*2 KVM: Kernel-based Virtual Machine