We keep your Mission Critical Systems Up and Running

We specialize in Open-Source High Availability and Disaster Recovery software
DRBD9 and drbdmanage
Shared everything
Shared nothing
DRBD key features

- Fully synchronous replicated storage
- All commercial off the shelf (COTS) components
- Application neutral, Cluster Manager neutral
- No special hardware required
- No vendor lock-in
- High performance implementation
  - 160k IOPs measured (using SDDs)
New features of DRBD9

- Up to 31 connections per Resource
  - Fixes the drawbacks of *stacking*
- Auto promote
- Transport abstraction (TCP, SCTP, RDMA)
- drbdmanage
DRBD control plane 8.4

- You have to create/provide block devices for DRBD
- You have to distribute DRBD config files among your nodes

Config file, replication pair/triple/...

```
drbdadm
```

CLI call, host-specific

```
drbdsetup
```

Linux Kernel - Generic Netlink

```
DRBD Kernel driver
```
DRBD control plane 9 – drbdmanage

CLI calls

replicated database
- drbdmanage daemon

Config file, replication pair/triple/...
- drbdadm
- LVM tools

CLI call, host-specific
- drbdsetup
- dmsetup

Linux Kernel - Generic Netlink
- DRBD Kernel driver
- device mapper
drbdmanage software architecture

- CLI
- DAEMON
- DRBD events
- D-Bus
- Data I/O
- drbdctrl

YOUR WAY TO HIGH AVAILABILITY
drbdmanage, volume management example

- Control volume – replicated across all nodes
- Automatically managed replicated volumes
drbdmanage, volume management example

Add a node
drbdmanage, volume management example

Rebalance existing volumes
Use the new space
drbdmanage

- provisioning solution for DRBD
- implemented in python
- manages LVs (LUNs) with name, size, replica count
- manages snapshots
- may base volumes on thinly provisioned LVM LVs
- uses DRBD9 itself for its own internal database
  - up to 32 nodes with the complete database
- scales to 1000s of nodes (work in progress)
More information

: http://www.linbit.com

Source packages and repositories

:

: http://drbd.linbit.com

: http://oss.linbit.com

: http://git.drbd.org

: precompiled binary packages: mailto:office@linbit.com