

# System Storage Manager

<http://storagemanager.sourceforge.net/>

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# System Storage Manager

- Aims to provide easy to use command line interface to manage your storage using various technologies like:
  - lvm
  - btrfs
  - encrypted volumes
  - mdraid
  - external storage
  - more...
- Single source of important storage information
- Written in Python
- Python module to use in other applications

# Backends

- Python modules doing the actual work
- Provide information about the storage
- Provide interface to call specific actions
- **device - pool - volume - snapshot** abstraction
- Problems:
  - Mostly calling command line tools :(
  - Inconsistent behaviour between various technologies
  - What other backends do we want ? (partitions, images)

# Commands

- Command line arguments for specific action required by user
  - Create - volume
  - List - devices, pools, volumes, snapshots, file systems
  - Remove - device, pool, volume, snapshot
  - Resize - volume
  - Check - file system
  - Add - device
  - Snapshot - volume
- Problems:
  - Slightly different semantics for different backends (btrfs vs lvm)
  - Undo functionality ?
  - More system integration ? (changing fstab, setting cron jobs)

## More discussion

- How to persuade people to write libraries ?
  - fs-progs umbrella library
- How to integrate libStorageMgmt ?
- Verbosity ?
- Interactivity ?

# The end.

Thanks for listening.