

NAS Recovery

preparations

1. Ask a client about

- NAS vendor and model
- NAS failure story

2. Prepare disks

- clone or image suspicious disks
- determine sector size

3. Determine NAS failure mode

- disk failure
or
- filesystem damage

NAS Recovery Approaches

depending on the NAS failure

Disk failure

- Quality and complexity of recovery depends on metadata:
 - both *LVM* and *md* metadata are good – fully automatic recovery
 - only *md* metadata is good – fully automatic recovery in limited cases (only with disks of the same size and only if the disks were never upgraded)
 - *md* metadata damaged – needs RAID recovery first
 - Check if partitions are identical on all disks. If not, create regions where partitions are missing
 - Do a RAID recovery on partitions of the same size to determine RAID parameters

Filesystem damage (associated with operator errors)

- don't recover RAID
- launch data recovery software
- use two different data recovery tools in turn