

# ATOL: Storage

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Advanced Topics of Linux Administration

# Storage types

- ▶ DAS – Direct Attached Storage
- ▶ SAN – Storage Area Network (FibreChannel, iSCSI)
- ▶ NAS – Network-attached Storage (NFS, SMB/CIFS, AFP)

# iSCSI in Linux

- ▶ SCSI protocol encapsulated in TCP/IP
- ▶ Shared infrastructure with ordinary network (Gigabit Ethernet is minimum)
- ▶ Much more cheaper than FibreChannel
- ▶ Initiator / Target - software / hardware

## Lab: Complex solution

- ▶ Goals:
  - ▶ Create a virtual machine on your computer using kickstart
  - ▶ Setup network connection through your 'real' machine
  - ▶ Real computer should act as SAN for virtual machine
  - ▶ Mount it on virtual machine and decide on which level encryption should be used
  - ▶ On top of that system run web and ftp server