

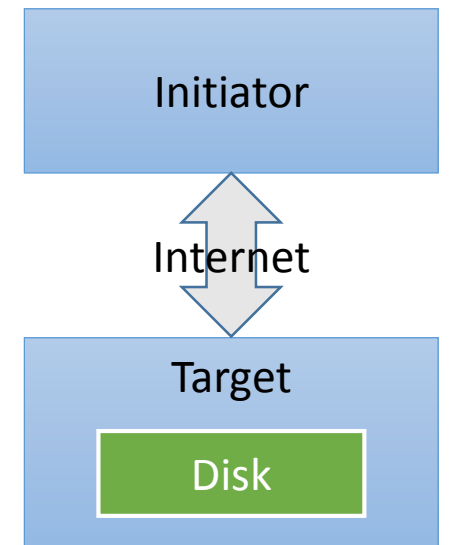
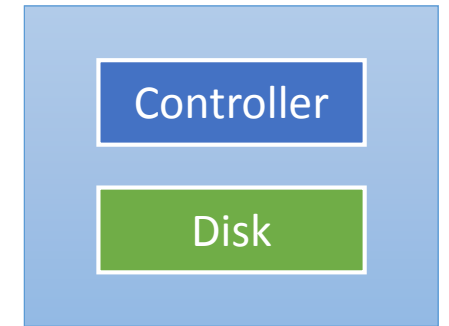
NAS and iSCSI

SCSI - short for Small Computer System Interface

- provides access to the local disks
- is used in enterprises

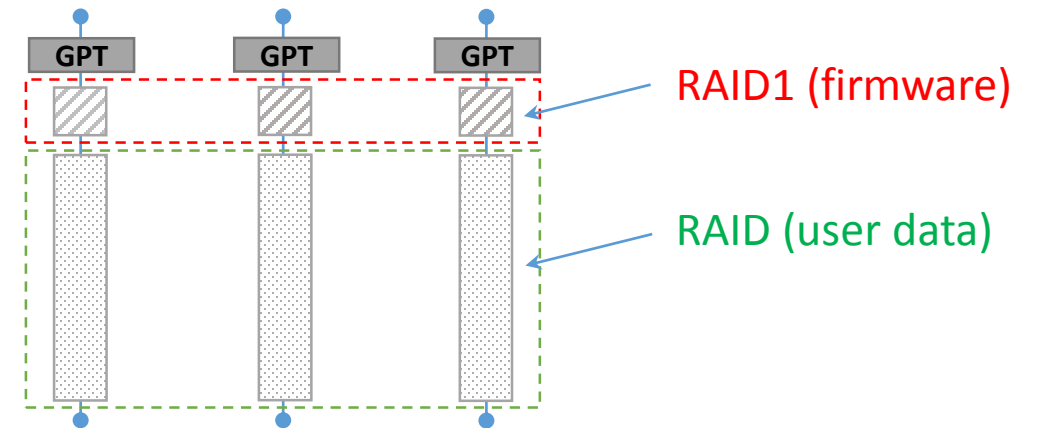
iSCSI - short for Internet Small Computer System Interface

- extends SCSI to work over network
- client is called *initiator*
- server is called *target*
- is used in NASes



iSCSI NAS layout


1. Disks are partitioned with MBR or GPT
2. Partitions are combined into RAID with md
 - first small partition(s) combined into RAID1
 - store NAS firmware
 - not needed in data recovery
 - large partitions combined into a RAID
 - level depends on a particular NAS
 - store very large disk image files (< 10 files)



iSCSI NAS recovery

1. Recover NAS filesystem (ext or XFS)
2. Copy disk image files
3. Recover data

Disk image files can be from

- Windows system image backup (VHD or VHDX)  mount and read immediately
- iSCSI LUN (raw disk image)
 - open as disk image and recover data
 - copy to a physical disk with dd