

?? 4, 2009 ??? sunchiahome

1.iSCSI (Initiator ??? "?????" ????, Target ??? "?????" ????)

iSCSI Target

iSCSI ??? SAN???? SAN???????? Server ??????.????? SAN ?????????? iSCSI(Internet SCSI)?? IP-based ???????
?.???????????????

????????? iSCSI Target ????????????? CPU ??,???????????????????? iSCSI Target ??.

?????? iscsi + TOE

TOE:TCP/IP offload engine,???? TCP/IP ????????????????????????? CPU ????,

???????????? iSCSI + TOE.

????? TOE ??????? iSCSI ??????.???????????????????? HBA.?????? BIOS ??? iSCSI ???????.

note: SCSI Port - SCSI Protocol

RHEL4

iSCSI Target

?? initiator ?????? iSCSI target ??,????????.

iSCSI initiator

????????????? iSCSI initiator ? service.???????????????? <http://sourceforge.net/projects/linux-iscsi>.

RHEL5 - iSCSI (Target / initiator)

? RedHat 5 ?????????? iSCSI Target ?,????????? iet(iSCSI Enterprise Target) :

<http://iscsitarget.sourceforge.net/> ?????????? iSCSI Target ?????????????????? RHEL5 ?????? iSCSI Target ????.?????

????? iet(iSCSI Enterprise Target) ?????????????????? <http://benjr.tw/?q=node/74>

RHEL5 - iSCSI Boot

?? RHEL5 ?????????????????? "Advanced Storage Configuration" ,????????????? iSCSI ??.

iSCSI Windows initiator

???????? windows ??????? iscsi initiator ? service.?????????????????.

<http://www.microsoft.com/windowsserversystem/storage/technologies/iscsi/default.mspx> web sit.

2.Extendable volume

SAN ?????????????????? volume ??????,Linux ???????????? LVM(Logical Volume Manager),LVM ?????????????? sanpshot ??????????????.

LVM-??

LVM(Logical Volume Manager)????????????????????,????????????????????.

LVM-??

Linux ???????????????? LVM.

LVM mapping modes

LVM?????? linear ??????? striped ??.

LVM-snapshots

?? LVM(Logical Volume Manager) ? Snapshots ?????????

?? LVM ??????????????

<http://www.tldp.org/HOWTO/LVM-HOWTO/>

3.Network bandwidth

?? Network ?? Gbit ?,??? Bonding ??????????.?????.

Linux Channel Bonding

Bonding ?????????????????? team(?????????)?????????(load-balancing)???(fault-tolerance)?????

4.RAID

??PC????? RAID ?????? Linux ??? SoftRAID????.

SoftRAID

?? mdadm ?????????? raidtools,?????????????????