

?? 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,?????????????????