

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