

# iSCSI

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# 1. iSCSI 가?

IBM CISCO 가 2000 2 Internet Engineering Task Force (IETF) Storage Network  
TCP/IP SCSI

# 2. iSCSI 가 ?

iSCSI Local Storage IP  
Network 가 , SAN iSCSI SAN ,  
Storage Network 가 SAN infrastructure Fibre  
Channel .

# 3. 가 iSCSI

가 400 가  
가 iSCSI DAS  
Database  
가 IP Networking , resources  
가

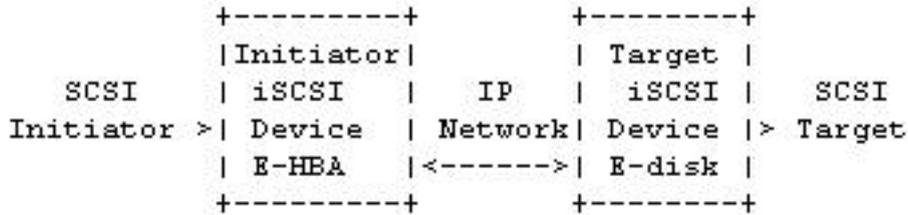
# 4. iSCSI

## 4.1. iSCSI

iSCSI IP storage(Internet Protocol storage) IP Gigabit  
Ethernet SAN SAN Fibre Channel .  
10M, 100Mbps Ethernet Gigabit .  
Fibre Channel Vendor 가  
Gigabit Ethernet IP IP storage  
Network protocol SAN Network  
IP Network 가 .  
iSCSI, iFCP mFCP SCSI Fibre Channel TCP/IP . iSCSI  
iFCP host adapter storage arrays 2001 .

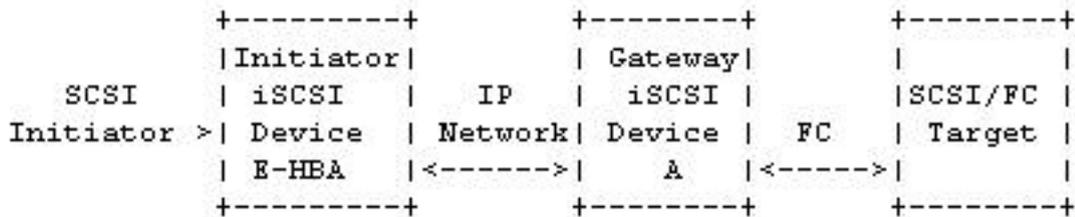
## 4.2. iSCSI system model addressing

iSCSI system model initiator SCSI device target SCSI device  
virtualcable .



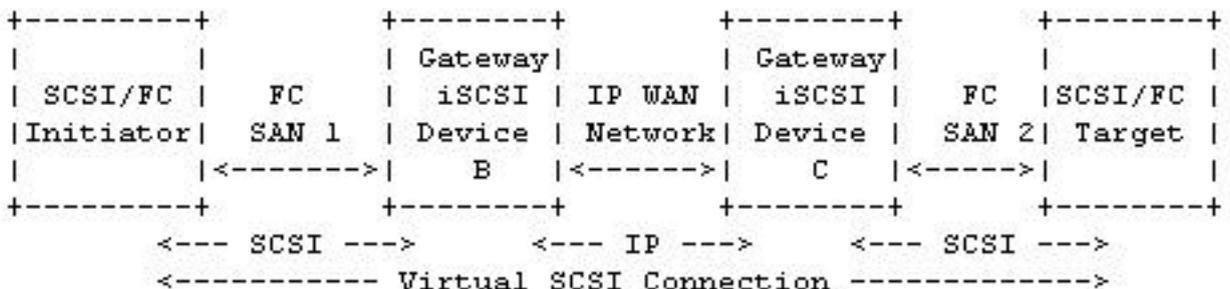
interface dummy SCSI, FC ( , SCSI I/O driver  
) initiator SCSI device target SCSI device IP .  
가 initiator iSCSI adapter  
( Ethernet Host Bus Adapters)

device Fibre Channel SCSI  
interconnection IP Storage protocol gateway iSCSI proxy device  
iSCSI HBA Fibre Channel



initiator iSCSI device gateway device A IP interface IP address  
gateway device A IP network SCSI command target device  
Fibre Channel fabric Fibre Channel interface ( N\_Port NL port) 가  
gateway device Fibre Channel network gateway  
iSCSI initiator Fibre Channel

Similar iSCSI gateway device Fibre Channel SAN WAN interconnection .



gateway device B FC SAN2 target SCSI proxy FC  
 SAN1 target device gateway device C FC SAN1 initiator  
 SCSI proxy FC SAN2 initiator  
 SCSI initiator target 3 , initiator Gateway B  
 , Gateway B Gateway C request transfer , Gateway C target  
 device SCSI operation initiator SCSI request local  
 remote proxy operation WAN delay  
 WAN SCSI device remote access SAN extension solution iFCP/mFCP  
 solution SAN SAN SCSI session  
 bridging protocol message Fibre Channel SAN context

### 4.3. iSCSI Operation

iSCSI connection command/response protocol iSCSI session iSCSI target  
 iSCSI initiator iSCSI login login initiator target  
 initiator target , session , session option

login iSCSI session full feature iSCSI initiator  
 TCP connection iSCSI protocol SCSI command iSCSI  
 target iSCSI target command SCSI target device status  
 iSCSI session status response TCP connection  
 iSCSI session TCP session shutdown SCSI operation  
 target SCSI operation session  
 , 가

#### 4.3.1. iSCSI data flow

command/status TCP session data optional command  
 data 가 SCSI commands command data status SCSI command  
 TCP connection  
 iSCSI initiator iSCSI target data  
 data iSCSI command message data message ( initiator target limit )

## 5.

iSCSI TCP SCSI command iSCSI  
 remote SCSI command Storage SAN System  
 Networking  
 iSCSI iSCSI