其它功能 **王延峰** 2006-10-29 发表

## 两台IX1000实现远程复制的配置

一、 组网需求: ix1000两台, windows服务器 二、 组网图: 无 三、 配置步骤: 适用于H3C IX1000以及windows系统 1. 系统组成介绍: 两台ix1000系统h3c-5和h3c-8模拟远程复制,h3c-5作为主服务器,h3c-8作为目标服 务 器,H3C-5系统中的SAN资源SANDisk-wyf作为主磁盘,H3C-8系统中的SAN资源SA NDiskwyf2作为副本磁盘, IX1000提供的远程复制功能根据设置的条件, 按预定的时间周期 或 门限值将更改的数据从主磁盘传输到副本磁盘,以同步磁盘。 2. 应用环境搭建: root用户已经登录两个存储系统H3C-5和H3C-8,系统正常运行且彼此能通信; H3C-5系统中有名为SANDisk-wyf的SAN资源(已经映射给客户端的initiator,其快照 资 源已经创建;H3C-8系统中的副本资源由复制向导自动创建(或者预先手工创建SAN Diskwyf大小一致的san资源并创建快照资源) 目标服务器(副本服务器)上必须有足够的空间,用于存放副本磁盘和快照资源; 3. 配置操作过程: 3. 1复制功能配置过程 选择目录树中的NeoStor服务器名H3C-5,打开"Logical Resources"旁的<sup>全</sup>图标,再打 开"SAN Resources"旁的<sup>9</sup>图标,鼠标右键单击"SANDisk-wyf",从弹出的快捷菜单中 选择 [Replication/Enable]菜单项,系统弹出创建复制向导 🕨 🕋 h3c-5 💠 💩 Physical Resources 🗢 盲 Logical Resources 🖕 📔 SAN Resources \_\_\_ 📄 ds\_vdev\_IX1000-CLIENT\_1142422829 h3-zxw - 📄 h3c-9-SANDisk-hlj C SANDisk-wyf SANDisk-zz o 🐚 NAS Resources 🖕 💼 Groups Configuration Repository Replication 🖕 👔 SAN Clients 🖕 间 client1 🛓 🚺 ISCSI 占 <u>i</u> target1 SANDisk-wyf

SANDis SANDis SANDis NAS Resou Groups Configuratio	Assign Expand Copy Rename Selete			
SAN Clients	Backup SafeCache	•		
	HotZone Mirror			
o- i Everyone_i	Replication		Enable	

## 开始配置向导,点击[next]继续

Click «Next» to continue.

eplication Setup 🛛	izard - [SANDisk-wyf] 🛛 🔀
-station = 21	Welcome
	This wizard helps you set up a NeoStor replication configuration. You will select a target server and create a replica disk to match the size of the primary disk or select an existing virtual device to be the replica disk. Please have an IP address available for the target server before you start the configuration unless you are setting up a local replication. Other configuration options can be set during the setup, such as the scan disk option, and the replication policy including watermark, start time and interval.
	Rack Kext Cancel
列表中选择或者添加	加目标服务器(副本服务器)
eplication Setup 🔻	izard - [ SANDisk-wyf ]
Colorities Tornel Contex	
Select the Target Server	
Select the target server	r or add the server you want to the list.
Server	Add
13c-1	
h3c-5 (Local	Server)
Click «Next» to continu	
	Eack Rext Cancer
	出し日本正确
查目标服务器的ipt	仍址定白止朔
查目标服务器的ip却	izard - [SANDisk-wyf]
查目标服务器的ip均 eplication Setup ▼	izard - [SANDisk-wyf]

Back Mext Cancel

加里士磁舟陌华友在timemark 可以使田【use existing timemark】 在次例中新建
的
san资源没有创建timemark,所以不用选择,点击[next]继续
Replication Setup Vizard - [ SANDisk-wwf ]
Specify the Adaptive Mode and TimeMark for the replication
Enable Adaptive Replication With Adaptive Replication enabled, data from the primary disk is continuously replicated to a secondary disk unless the system determines it is not practical or possible, such as when there is insufficient bandwidth. In these types of situations the system automatically switches to standard, periodic replication. For continuous replication to occur, a Continuous Replication Resource is created to stage the data being replicated from the primary disk. Any time a snapshot is taken Adaptive replication will create a new TimeMark.
Use existing TimeMark
Click «Next» to continue.
Rack Revel Cancel
East Sauce
在下面的视图中选择触发复制的策略,次例中选择新增数据量达到50m就触发复制
Replication Setup Wizard - [ SANDisk-wyf ]
Select the Replication Policy for the SAN Resource
Select one or more policies to trigger the replication.
This option allows you to set a watermark based on the amount of new data to be replicated. The
maximum size is the size of the primary disk. If the watermark-based replication fails, retry every 30 ± minute (s) □ Start an initial replication on 03/16/2006 at 12:00 ± = ±
and then every it is the second thereafter This option allows you to start a replication initially at a certain time then repeat every certain interval. For example, initially today at noon, then repeat every 2 hours or every 30 minutes.
Click «Next» to continue.
Eack Fext Cancel
此处选择复制的协议rudp, tcp在次版本中不被支持
Replication Setup Wizard - [ SANDisk-wyf ]
Replication Protocol

epicalion rober	
Select a replication protocol.	
⊙ тср	
TCP protocol is only supported on Ne is configured in periodic replication.	ocean NeoStor server version 5.0 or later when replication
● RµDP	
RUDP protocol is supported on all ver replication and periodic replication.	rsions of Neocean NeoStor servers for both adaptive
Click <next> to continue.</next>	

如果有压缩和加密数据的需求,可以在下面的视图中勾选,此例中没有使用



选择创建副本磁盘的方式, [express]系统自动创建并起始创建快照, [custom]自定义选

择物理资源和逻辑资源, [select existing]选择已经存在的逻辑资源

	rget Server			
Select your creation method.				
Primary SAN Resource: SANDisk-	wyf, Virtual Device, 10	000 MB		
Custom				
The Custom method allows	you to select the ha	ra alsk segment(	s) you want for th	е керііса Disk
The system will create the P	Poplica Dick from the	available bard d	ick comparts the	t matchae the
of the primary SAN Resource	e.	avaliable fialu u	isk segments the	it matches the
O Select Existing				
You will select the Replica I	Disk from a list of ava	ilable SAN Reso	urces.	
		gack	gext	T Fauce
本资源取名字				
本资源取名字 ication Setup Vizard · terthe Replica Disk Name	- [ SANDisk-wy	٤ ]		
本资源取名字 .ication Setup Tizard · .terthe Replica Disk Name	- [ SANDisk-wy	٤J		
本资源取名字 Sication Setup Tizard · Iter the Replica Disk Name Physical device(s) selected for th	- [ SANDisk-wy he Replica Disk	٤ ]		
本资源取名字 Lication Setup Vizard Iter the Replica Disk Name Physical device(s) selected for th Replica Disk Name SANDisk-w mvalid characters for the Resou	- [ SANDisk-vy he Replica Disk yr2 rce Name: <>* & \$ /	£ ]		
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本资源取名字 Lication Setup Tizard Her the Replica Disk Name Physical device(s) selected for the Replica Disk Name SANDisk with the Resourt Device Name SANDCORE:Array 06.000	e Replica Disk M2 SCSI Address 0:0:5:0	E ] 1' First Sector 22,272	Last Sector 20,502,271	Size (MB) 10,00
本资源取名字 Lication Setup Vizard Iter the Replica Disk Name Physical device(s) selected for th Replica Disk Name SANDisk with Invalid characters for the Resou Device Name RAIDCORE:Array 06.000	<ul> <li>[ SANDisk-vy</li> <li>he Replica Disk</li> <li>Y2</li> <li>rce Name: &lt;&gt;" &amp; \$/</li> <li>SCSI Address</li> <li>0:0:5:0</li> </ul>	E] V First Sector 22,272	Last Sector 20,502,271	Size(MB) 10,00
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Back Mext Cancel

[scan disk for differences]可选,执行同步分析

ication Setup <b>V</b>	izard - [ SANDisk-	wyf ]	
rform synchronization	analysis		
Scan disk for differe	nces		
This option allows the needs to be synchroni watermark policy for re next normally schedul	system to scan both the p zed. Once the analysis h plication and that value h ed interval (based on time	primary and replica disks to determine as completed, replication will occur if y as been reached. Otherwise, replicat ).	e how much data you have selecte ion will occur at t
If you do not select this Enabled disk, a comp complete. If the prima Enabled disk, the syst scheduled interval.	s option and the primary d lete replication of the entir y disk does not contain d em will mark the disks 'sy	isk contains data or has clients attach e disk will occur immediately after the ata, does not have clients attached an nchronized' and replication will occur	ed or is a Servic configuration is d is not a Service at the next norm
Current Status: Data I clients attached. Syn	has been written to the p chronization is recomme	rimary disk since it was created or ti Inded.	he primary disk
ick <next> to continue.</next>			
		Back Mext	Gancel
rify and Create the Rep rimary Server: h3c-5,	Primary Disk: SANDisk-	vyf (10000 MB)	
rify and Create the Rep Primary Server: h3c-5, Target Server: h3c-8, F	Primary Disk: SANDisk-v Replica Disk:SANDisk-wy	vyf (10000 MB) 12 First Sector Lost Sector	Size (MP)
rify and Create the Rep Primary Server: h3c-5, larget Server: h3c-8, F Device Name & RAIDCORE Array (	Primary Disk: SANDisk-v Replica Disk:SANDisk-wy SCSI Address 16.000 0:0:5	wyf (10000 MB) 12 First Sector Last Sector : 0 22,272 20,502,271	Size(MB) 10,000
rify and Create the Rep Primary Server: h3c-5, farget Server: h3c-8, f Device Name S RAIDCORE: Array (	lication Configuration Primary Disk: SANDisk-v teplica Disk:SANDisk-wy SCSI Address 16.000 0:0:5	wyf (10000 MB) 2 First Sector Last Sector :0 22,272 20,502,271	Size(MB) 10,000
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rify and Create the Rep Primary Server: h3c-5, farget Server: h3c-8, f Device None Replication parameter: hostname or IP addre Replication policy settit Start replication when If the watermark-base	Ilication Configuration Primary Disk: SANDisk-v Replica Disk:SANDisk-wy SCSI Address 16.000 0:0:5 3. 5. 5. 5. 5. 5. 5. 5. 5. 5. 5. 5. 5. 5.	evyf (10000 MB) 12 First Sector Last Sector :0 22,272 20,502,271 Paches 50 MB ery 30 minute(s)	Size (NB) 10,000
rify and Create the Rep rimary Server: h3c-5, farget Server: h3c-8, f Device Name Same Replication parameter: hostname or IP addree Replication policy settin Start replication when If the watermark-base Dick <finish> to confirm</finish>	Ilication Configuration Primary Disk: SANDisk-v teplica Disk:SANDisk-wy SCSI Address 16.000 0:0:0: 5. 5. 5. 5. 5. 5. 5. 5. 5. 5. 5. 5. 5.	wyf (10000 MB) 12 First Sector Last Sector 1:0 22,272 20,502,271 20,502,272 20,502,20	Size(01B) 10,000
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rify and Create the Rep rimary Server: h3c-5, farget Server: h3c-8, Device Name Service Name Replication parameters hostname or IP addres Replication policy settin Start replication when If the watermark-base Click <finish> to confirn 本磁盘创建快照影</finish>	Nication Configuration Primary Disk: SANDisk-v teplica Disk:SANDisk-wy SCSI Address 16.000 0:0:5 3. 3. 5. 52.168.0.8 Ngs. the amount of new data r d replication fails, retry ev m the setup of the replicat 资源	vyf (10000 MB) 2 First Sector Last Sector : 0 22,272 20,502,271 seaches 50 MB ery 30 minute(s) lon configuration. <u>Back</u> Figish	Size (NB) 10,000
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rify and Create the Rep Primary Server: h3c-5, Farget Server: h3c-6, Farget Server: h3c-8, Pevice Name Service Name Replication parameters hostname or IP addres Replication parameters hostnameters Replication parameters hostnameters Replication parameters hostnameters Replication parameters hostnameters Replication parameters Replication parameters Rep	lication Configuration Primary Disk: SANDisk-very teplica Disk:SANDisk-very SCSI Address 166.000 0:0:5 3. 3. 3. 3. 3. 3. 3. 3. 3. 3. 3. 3. 3.	eaches 50 MB en configuration.	Size (MB) 10,000
rify and Create the Rep Primary Server: h3c-5, Farget Server: h3c-6, f Device Name Replication parameter: hostname or IP addre Replication policy settli Start replication when If the watermark-base Click <finish> to confir 本磁盘创建快照 ication Setup T rify and Create the Rep Primary Server: h3c-5, Farget Server: h3c-5,</finish>	Nication Configuration Primary Disk: SANDisk	wyf (10000 MB)         Last Sector           First Sector         Last Sector           0         22,272         20,502,271           Beaches 50 MB	Size (MB) 10,000
rify and Create the Rep rimary Server: h3c-5, farget Server: h3c-8, f Device Name S RAIDCORE: Array ( Replication parameter: hostname or IP addre Replication parameter: hostname or IP addre Replication policy settin Start replication when If the watermark-base Nick <finish> to confir 本磁盘创建快照} ication Setup 7 rify and Create the Rep Finary Server: h3c-5, la Device Name</finish>	Nication Configuration Primary Disk: SANDisk-very Explica Disk:SANDisk-very SCSI Address 166.000 0:0:5 8. 8. 95. 102.168.0.8 103. 103. 104. 105. 105. 105. 105. 105. 105. 105. 105	vyf (10000 MB) 2 First Sector Last Sector :: 0 22,272 20,502,271 eaches 50 MB ery 30 minute(s) lon configuration. <u>Back</u> Finish vyf (10000 MB) 2 First Sector Last Sector	Size (MB) 10,000 10,000 (Cancel Size (MB)

The Snapshot Resource Wizard will guide you through creating a Snapshot Resource for the replica disk.

确定

Replication - Start replication when the amount of new data reaches of with - If the watermark-based replication fails, retry every 30 minute(s)

Click <Finish> to confirm the setup of the replication configuration.

^

~

Back Finish Cancel

Replication



Create Snapsh	ot Resource Vizard	×
Select an Alloca	ation Method.	
Select a meth	od to allocate the space for the Snapshot Resource.	
SAN Replica R	esource: SANDisk-wyf2, Size: 10,000 MB.	
O Custom		
The Cust Resource	tom method allows you to select the hard disk segment(s) you want for the Snapshot e.	
Express	5	
The syste based or	em will allocate space for the Snapshot Resource from the available hard disk segments 1 the size specified below.	
Size to All	locate: MB Total Available Size: 43,124 MB	
Selection	Criteria Select different drive	
Click <next> t</next>	o continue.	
	Back Bext Cancel	



Select Storage Policy for the Snapshot Resource	
SAN Replica Resource: SANDisk-wyf2, Size: 10,000 MB.	
Select the storage policy to be triggered when the space is running low	
Specify a threshold as a percentage of the space used (50%-95%)	50 %
entirer derete thre earlier i innewarks to the up the space of stop will selected on the next screen. If automatic expansion option below used to trigger the automatic expansion before applying the policy	nung data depending on the policy is specified, the threshold will be r.
Automatically allocate more space for the Snapshot Resource.	
This option allows the system to allocate more space based on the Snapshot Resource when the used space reaches the threshold.	ne following settings for the
Increment the space by	20 🛨 🕺 🐱
Maximum size allowed for the Snapshot Resource	0÷MB
(The maximum size is set as a limit for the automatic expansion. the limit )	Specify 0 if you do not want to set
die unity	

Treate Snapshot Resource Vizard
Set Snapshot Resource Policy for the SAN Replica Resource
Set the policy to maintain TimeMarks. Select an option to be executed when the space configured for the Snapshot Resource runs out.
O Delete the earlier TimeMarks automatically.
This option allows the system to delete as many earlier TimeMarks as needed to free up the space for the new TimeMark.
Stop writing data.
This option allows the system to stop writing data to the disk until more space is available for the new TimeMark.
Click «Next» to continue.
Eack Next Cancel





Neccess Necility Servers		
Ale-1	(desarul Replicention)	1
15.4	Name	Value
120.0	Replica Server	h3c-8
Physical Resources	Replica Device ID	01
<ul> <li>Logical Resources</li> </ul>	Watemark	20 MB
🛥 🍙 SAN Resources	Watermark Hatty	30 minutes
- B ds_v8w_0000-CL/ENT_1142422829	Hepicaton Inte	- Non
	File Editor Treatist	- Ren
Alt-9-SAVDish-18	Protocal	BUDP
Cabillion Award 2	Conversion	Disatives
	Ercopton	Orsatree
Contraction with	Accumulated Delta Date	0.171 MB
SANDHIA-22	02423410243102430231	1 Styles De
O I NAS Recources	Replicator Status	Nétre .
O Droups	Data Total	10,000 MB
Carifguration Repository	Replicator: Start Time	03162006 08 42:30 74
Replication	Data Processed (%)	45
0 C Intering	Instantaneous Throughout (MDirc)	94,600
	Average Throughput (MBIN)	87.708
- No contract	Estimated Time Remaining	11 seconds
Commentation     C		
00 10 10 12 Ddr-13 Industries for SM Jacores SM Server 50 10 10 10 10 10 10 10 10 10 10 10 10 10	ef (2) for her som sammefalle redragest. Dissensing blir at an at a - berrar (2) or dissensing blir at a dissension (2) of the same factor (2) of the same fac	il Jane Met 1211 - Korn Petron Serre
		。

## 3. 3为副本磁盘创建timemark

⊨ 🚮 h3c-8	<b>m</b>	
SANDis	Ranama	
SAN Clients	Pelete	
Reports	Backup 🕨	
- 😭 h3c-8	Mirror 🕨	
o 👵 Physical Resource	Replication 🕨	
o 盲 Logical Resources	Snapshot Resource 🕨	
🗕 👘 Replication	TimeMark 🕨	Enable
🖕 📶 Incoming	Write Cache	

Enable TimeMark Viz	ard	×
	Welcome This wizard helps you to enable TimeMark for the selected virtual device. It will guide you through scheduling the automatic TimeMark creation at a set time or interval.	
	Click <next> to continue.</next>	
	Rack Mext Cancel	

Schedule Automatic TimeMark for the SAN Re	eplica Resource
Select the policy below if you want to create th	e TimeMark automatically.
Create an initial TimeMark on 03/16/20	06 m at 12:00 上午 马
and then every	thereafter
This option allows you to create a Time!	Mark initially at a cartain time then reneast every cartain
interval. For example, initially today at no	bon, then repeat every 2 hours or every 30 minutes.
Maximum number of TimeMarks to Keep	8
TimeView Resources.	bes not include Timemarks that are associated with
Click <next> to continue.</next>	pes not include Timemarks that are associated with
Click <next> to continue.</next>	Des not include limemarks that are associated with
Click <next> to continue.</next>	Eack
Click <next> to continue.</next>	Back
The maximum number of timeMarks of TimeView Resources. Click <next> to continue.</next>	Back

SAN Replica Resource. SANDISK-Wylz, Siz	e: 10,000 MB.
TimeMark Schedule: - Schedule TimeMark Automatically: no - Maximum number of TimeMarks to Keep	p: 8
Click <finish> to enable the TimeMark for</finish>	r the SAN Replica Resource.
	Back Figish Cancel
副本磁盘的状态	
•- 🕋 n3c-8	
o 💩 Physical Resources	
<ul> <li>Physical Resources</li> <li>Logical Resources</li> </ul>	
o-& Physical Resources o- □ Logical Resources □ Mathing Replication	
<ul> <li>Physical Resources</li> <li>Logical Resources</li> <li>- </li> <li>→ </li> <li>Replication</li> <li>- </li> <li>- </li> <li>(moming)</li> </ul>	
<ul> <li>Physical Resources</li> <li>Logical Resources</li> <li>Replication</li> <li>(incoming -(inco</li></ul>	
Physical Resources     Logical Resources     Logical Resources     Incoming     Profile Address     Profile Address     SANDisk-wyf2	

Name	Value		
Schedule	Disabled		
List of TimeMarks ( max TimeMark count: 8 )			
TimeMark (001) @ 03/16/2006 20:53:09	Used Size: 64.0 KB (repsnap@Mar 16 20:53:09 2006)		

3.4 向主磁盘添加数据(多于20m),当两边资源同步完成后,为系统新添加的 timemark创建timeview,并且把timeview映射给客户端检查主磁盘和副本磁盘的数据 是

否一致;



3. 5 为timemark创建timeview







SCSI Targets selected to be assigned	d to SAN Resource
SAN Resource Name: 🌘 SANDisk-w	xf2_2006-03-17_10-37-54
iSCSI Target Name	Access
target2	Read/Write
This SAN Resource is already assig	aned to other iSCSI target(s).
This SAN Resource has not been a	ssigned to any other iSCSI target yet.
This SAN Resource has not been a Click <finish> to complete the assign</finish>	ssigned to any other iSCSI target yet. iment.
This SAN Resource has not been a Click <finish> to complete the assign the second s</finish>	ssigned to any other ISCSI target yet. Iment.
This SAN Resource has not been a Click <finish> to complete the assign</finish>	ssigned to any other ISCSI target yet. Iment.
This SAN Resource has not been a Click <finish> to complete the assign</finish>	ssigned to any other iSCSI target yet. Iment.
This SAN Resource has not been a Click <finish> to complete the assign SAN Clients</finish>	ssigned to any other ISCSI target yet. Iment. <u>Back</u> Figish <u>Cance</u>
This SAH Resource has not been a Click <finish> to complete the assign SAN Clients</finish>	ssigned to any other ISCSI target yet. Iment. <u>Back</u> Figish <u>Cance</u>
<ul> <li>This SAH Resource has not been a Click <finish> to complete the assign</finish></li> <li>SAN Clients</li> <li>C3146-2</li> <li>client2</li> </ul>	ssigned to any other ISCSI target yet. Iment. Back Figish Cance
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General ect a target and cliq get. Click details to s vices for that target. argets:	Discoverv k Log On to access the s see information about the	Targets torage devices for that sessions, connections ar
elect a target and cliq get. Click details to s vices for that target. argets:	ck Log On to access the s see information about the :	torage devices for that sessions, connections ar
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arget2		Connected
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3.8 查看新加卷G:是否与主磁盘数据卷F:中的数据保持一致





文件① 編編2) 査者の 収蔵(A) 工具(D) 報題 ③ 高速 • ③ • ④ • ♪ 秋葉 ● 文件来 [ 地址 ①) ● F: \ 文件和文件来任多 ③ ■ 重命名这个文件来 ● 彩动这个文件来 ● 彩动这个文件来	常規 共享 自定义					
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U MARSTY HX	白用空間: (1.1 MB ((4,653,216 子节) 何会: 331 个文件,25 个文件来					
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其它位置						
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○ 共享文档						
9 网上邻居						
<ol> <li>2提升副本磁盘sandisk-2为主磁盘,</li> <li>3首先解除原主磁盘sandisk-wyf与客</li> <li>4然后建立sandisk-wyf2到sandisk-w</li> <li>5然后翻转复制完成初始配置</li> </ol>	这时可以通过访问副本磁盘使用数据 引户端的连接 vyf的复制,选择使用已经存在的					
utaging Assign						
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ionti Selete						
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Replication Setup Vizard - [ SANDis]						
Create the Replica Disk on the Target Server						
Select your creation method. Primary SAN Resource: SANDisk-wyf2, Virtual Dev O Custom	rice, 10000 MB					
Express	ne nara ular segmeni(s) you want for the Replica DISK.					
O Express The system will create the Replica Disk from the available hard disk segments that matches the size						
The system will create the Replica Disk fro	of the primary SAN Resource.					
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