USING ISCSI CAKE WITH WINDOWS 2008 CORE



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ISCSI Cake (CCDisk)

INTRODUCTION

Server Core is one of the most innovative features of Microsoft Windows 2008. Server Core has a small, stable kernel which is enough to act as dedicated application server role, such as an iSCSI storage server. iSCSI Cake is a standard iSCSI target which supports a variety of storage resources including disk, partition, VMDK file, and image file. This paper provides instructions of configuring iSCSI Cake in Windows 2008 server core.

Figure 1 is the system setup which consists of 2 computers:

- A Windows 2008 as ISCSI Cake server. (In VMware station)
- A Windows XP as management consol.



Figure 1. System setup.

EXTRACT SETUP FILES OF ISCSI CAKE

Download the latest version from <u>http://www.iscsicake.com</u>. Install it on Windows XP machine. Open the management GUI and click "Setup" button to setup Admin password. The Admin password is necessary because iSCSI Cake does not allow remote management without password.



Setup		×	
[target setup] Service port	3260		
Cache size	100	мв	
TCP_NO_DELAY	v		
Refresh interval	5	S	
Control port	3258		
Admin password	×××		
Super client passwd	*****		
[initiator setup]			
🔽 Enable local cache	16	МВ	
C Memory cache			
Oisk cache	C:\CakeCache		
🔲 Save client data on server when shutdown			
✓ Cache write only			
Update cache Save Cancel			

INSTALL ISCSI CAKE ON SERVER CORE

Share the iSCSI Cake installation folder on XP machine which is "C:\Program Files\iSCSI Cake" by default. In Windows 2008 Server Core, copy all files from XP machine to C:\iscsicake.

mkdir C:\iscsicake cd iscsic~1 xcopy /s "\\192.168.1.15\iSCSI Cake"

Install and start iSCSI Cake service.

cakeservice.exe /install

netstart cakeservice

Close firewall.

netsh advfirewall set allprofiles state off



MANAGE ISCSI CAKE

Open iSCSI Cake GUI on XP machine; change the Server IP to the address of Server Core. Log in with password.

L	ogin			
	Server IP	192 . 168 . 1 . 82		
	Control port	3258		
	Password	xxx		
	(Local control only without password)			
		OK Cancel		

Add a new disk using VMDK file. The Working dir and the path of the VMDK file need to be edited manually as shown in following figure.

Disk Informatio	n	×			
Disk information					
Name	Disk1				
Capacity	10000	МВ			
Working dir	C:\iscsicake\Disk1\				
Source					
C Partition	· · · · · · · · · · · · · · · · · · ·				
C Disk					
 File 	c:\iscsicake\filedisk				
C Ramdisk					
Start type	Auto				
🔽 Auto access	control				
🔽 Enable super client					
🔽 Disable CHAI	P				
	OK Canc	el			

VMDK file support needs <u>Microsoft Visual C++ 2005 Redistributable Package</u>. So download and install it if the error of following figure appears.



Here is the management GUI if the new iSCSI disk has been successfully created.

SCSI Cake 1.8.0217 Trial day	rs left: 15								
File(E) View(⊻) Help(<u>H</u>)									
New disk New client Delete dis	k Delete client	Setup Update ca	che Start service	Stop service	Exit	(i Abor) ut		
	Name Status	Start type Aces	s.c Canacity	Sneed	Online time	Read	Write	Source	Working dir
WIN-U0Q2E85ZYOE(Online;	Disk1 Running	a Auto Ai	ito 10000MB	0.00MBps	OHrOMin	OMB	OMB	c:\iscsicake\filedisk.vmdk	C:\iscsicake\Disk1\
Client									
	1								
	1								
2	<								3
Ready								Online 0	Total 0

CONNECT TO ISCSI CAKE

Install iSCSI initiator on XP machine. Open it and click "Discovery" tab to add the address of Server Core.

Add Target Portal					
Type the IP address or DNS name and socket number of the portal you want to add. Click Advanced to select specific settings for the discovery session to the portal.					
IP address or DNS name:	<u>P</u> ort:				
192.168.1.82	3260	Advanced			
	ОК	Cancel			

Go to "Targets" tab and click "Log On" button to connect to iSCSI target.

Log On to Target				
Target name:				
ign.2005-02.com.ricecake.iscsi:00				
Automatically restore this connection when the system boots				
Enable multi-path				
Only select this option if iSCSI i on your computer.	multi-path software is already installed			
Advanced	OK Cancel			
CSI Initiator Properties				
General Discovery Targets Persi	stent Targets Bound Volumes/Devices			
Larget: Click details to see information devices for that target.	about the sessions, connections and			
Name	Status			
ign.2005-02.com.ricecake.iscsi:00	Connected			
<u>D</u> etails	Log On R <u>e</u> fresh			
0	K Cancel Apply			

REMOVE ISCSI CAKE

iSCSI Cake service can be removed from command line:

net stop cakeservice

c:\iscsicake\cakeservice.exe /remove

CONTACT

iSCSI Cake(CCDisk)

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Product Page: <u>http://www.iscsicake.com/</u>

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