



การตั้งค่า Backup

🌮 Wizards 🛛 😨	🕽 Disk Map [localhost) 🐻 E	ackup Jobs [localhost	t] 🕡 Destinations [loc	:alhost] 💱 Backup History [localhost]
Execute Cancel	I Pause New Delete Edit	🔍 🔊 Details Refresh		
Name	Туре	Status	Next Run Time	
🜀 Create a job!				
		คลิกที่ Backup J	lobs	
🌮 Wizards 🛛	🛿 Disk Map [localhost 🗡 📑 E	ackup Jobs [localhost	t] 🕡 Destinations [loc	:alhost] 💱 Backup History [localhost]
Execute Cancel	I Pause New Delete Edit	🔍 🗞 Details Refresh		
Name	New	Status	Next Run Time	
🤞 Create a job!				
		-l o.		
	ี คลิกที New เร	พื่อสร้าง Backup		



☑ Drive Letter	Volume	File System	Size	Used	Partition Type	Partition Flags
Disk 0: ST310	00340NS					
Z C <u>N</u>	📎 No Label	NTFS	52.51 GB	11.07 GB	NTES	Act, Pri
] D:\	🧼 Data	NTFS	878.90 GB	437.95 GB	NTFS	Pri
🕘 🛛 Disk 1: Hitach	i					
E:\	🌍 No Label	NTFS	698.63 GB	111.59 MB	NTFS	Pri
			< Back	M +	lext >	Cancel

* ควรตั้ง backup แต่ละไดร์ฟแยก job กัน ยกเว้น Exchange Server จะต้องตั้ง backup ของ D: (Mail) และ E: (Log) หรือ DataBase Server ที่เก็บ D: กับ E: ให้เป็น Job เดียวกันเท่านั้น

Backup [localhost] Backup Name and Destination Specify a name for your backup ima	age and select a location to save the backup	
5elect network location or browse to a l	local path	
		Browse
Specify image names		
File Name	Volume	
* Double-click to rename file, or sel	ect it and hit space or F2	

คลิก Browse เพื่อเลือก Local Disk ตำแหน่งที่จะเก็บ Backup Image File

Browse
lume
\ (No Label)
ļ

Specify a name for your backup im	nage and select a location to save the backup	
elct network location or browse to a	a local path	
		Browse
Network Locations>	T	
File Name	Volume	
Double-click to rename file, or se	elect it and hit space or F2	

กรณี ตำแหน่งที่จัดเก็บ Backup Image File อยู่ใน Network เช่น NAS ให้คลิกเลือก <Network Location...>

Destination [localhost]	
Destination Type:	
Network Share	•
Destination Name:	Browse เลือกปลายทาง,
	ใส่ ซื่อ หรือ IP Address.
Destination Path:	
\\SUPPORT3\Backup Browse	
Connect using the ShadowProtect Backup Service credentials	
Domain or Computer or NAS:	
192.168.0.22	THE NTE IP Address
Liser Name:	ปลายทาง
	User Name
Qualified Liser Name:	
192.168.0.22\Administrator	
Password:	
••••••	Password
Verify destination access upon dicking OK	
	🧕 คลก UK
Select network location or browse to a local path	
(\\SUPPORT3\Backup)	Browse

Specify the backup schedu	le						1
Schedule Now Later Weekly	VSS Increment Sun	al Backups Mon	Tue	Wed	Thu	Fri 6:00:00 PM	Sat
 Monthly Continuous Incrementals 	Additional Incre Sun	emental Back Mon 📝	kups Tue 🔽	Wed	Thu 🔽	Fri	Sat
VOTE: You must use the ShadowControl ImageManager service with this option.		Î	Sta Sto	rt taking backu op taking backu	ups at this time: ups at this time:	8:00:00 AM 6:00:00 PM	
	🔽 Use VSS	5		Mindtes bet Ba	ween backups ickups per day:	11	
			< Back		Next >		Cancel
เลือก Continuous Inc	crementals						
เลือกท	วันทำ Back	up					
เลื่	ื่อกช่วงเวลา	Backup	0				
			ตั้งค่าค	วามถี่เวลา	าขคงการทำ) Increme	ntal B

4

Select Compression Method:		Standard (recom	mended)		•	
Enter Password	🔲 Use Password File	Note:	This option will	encrypt the ima	ge file	
Password:						
Confirm Password:						
🗖 Split image file	640 👻 M	b				
Backup Job Name						
Backup Comment						
					*	
					 Ψα/ 	/anced
			(
		< Back		Next >	 	Iancel

Please review	the options you have selected before cl	licking Finish		2
/olumes and Back	up Destinations: C:\ (No Label) to \\SUPPORT3\Backup\	IC_VOL		A
lackup options: iplit options: ldvanced options	Compression method: Standard (recon [] Encryption Maximum output file size: Automatic ; [] Include free space Performance Throttling: 100% [] Second and subsequent full backup [X] Generate MDS file when creating a [] Ignore read failures and continue b [] Enable Write Caching	nmended) os are differentials n image file backup		E
Execute Now			Click f	inish to begin the operation
		< Back	Finish	Cancel

🎾 🥬 Wizards 🌮 Manag	gement View 👩 Disk Map	[localhost 🖓 📑 Ba	ackup Jobs [localhost]	👰 Destinations [localhost]
Execute Cancel Pause	e New Delete Edit I	🔍 🔸 🗟 Details Refresh		
Name	Туре	Status	Next Run Time	
6	Scheduled Backup Jo	ob running	3/26/2014 5:00:00	
Basic Properties				
Job Status				
🧿 Task Details: C:\ (No Label) -> E:\C_VOL-b00	1.spf		
🕒 🕒 Task Status: runni	ing			
🔍 View Details				
🕥 Remaining Time:	20 minutes 24 seconds, 37.3	19 MB/s		

ShadowProtect จะทำ Full Backup ครั้งแรก เพียงครั้งเดียว หลังจากนั้นจะเป็น Incremental Backup

🥟 Wizards 🌮 N	Management View 🔞 Disk Map	o [localhost) 🐻 Bac	:kup Jobs [localhost] [🖗 Destinations [localhost]
Execute Cancel	Pause New Delete Edit	🔍 🚽 🍣 Details Refresh		
Name	Туре	Status	Next Run Time	
6	Scheduled Backup J	ob completed	3/26/2014 6:00:00	

/	[localhost]	r	🕼 Destinations -	- [localhost]	🚬 🕄 Backup History	y [localhost]
Oelete All Details						All Ever
Start Time	End Time 🕖		Туре	Source	Destination	Status
3/26/2014 4:53:46	3/26/2014 5:00):12	Full backup	(C:\) NTFS	E:\C_VOL-b001.spf	Completed
4) 3/26/2014 5:03:34	3/26/2014 5:06	ó:56	Incremental backup	(C:\) NTFS	E:\C_VOL-b001-i0	Completed
3/26/2014 5:07:36	3/26/2014 5:10):57	Incremental backup	(C:\) NTFS	E:\C_VOL-b001-i0	Completed
Timing	Module	Code	Message			
Timing ④ 26-Mar-2014 16:53:46	Module service	Code 100	Message service (build 55) s	tarted job manually a	s full	
Timing ④ 26-Mar-2014 16:53:46 ▲ 26-Mar-2014 16:53:46	Module service service	Code 100 300	Message service (build 55) s trial period has 30	tarted job manually a days left	s full	
Timing 26-Mar-2014 16:53:46 26-Mar-2014 16:53:46 26-Mar-2014 16:53:46	Module service service service	Code 100 300 104	Message service (build 55) s trial period has 30 5.0.2.25398 Rb9NA	tarted job manually a days left xaWpzpjgT/Pcb/yMQ	s full == 105A-4E4B-5E3C-9D	DA0-736B-2E4D-18E
Timing 26-Mar-2014 16:53:46 26-Mar-2014 16:53:46 26-Mar-2014 16:53:46 26-Mar-2014 16:53:46	Module service service service service	Code 100 300 104 100	Message service (build 55) s trial period has 30 5.0.2.25398 Rb9NA backup volume C:	tarted job manually a days left xaWpzpjgT/Pcb/yMQ \ (NTFS)	s full == 105A-4E4B-5E3C-9D	DA0-736B-2E4D-18E
Timing 26-Mar-2014 16:53:46 26-Mar-2014 16:53:46 26-Mar-2014 16:53:46 26-Mar-2014 16:53:46 26-Mar-2014 16:53:46 26-Mar-2014 16:53:46	Module service service service service service	Code 100 300 104 100 100	Message service (build 55) s trial period has 30 5.0.2.25398 Rb9NA backup volume C: VDIFF was disabled	tarted job manually a days left xaWpzpjgT/Pcb/yMQ \ (NTFS) d and then enabled or	s full == 105A-4E4B-5E3C-9E • C:\	DA0-736B-2E4D-18E
Timing 26-Mar-2014 16:53:46 26-Mar-2014 16:53:46	Module service service service service service	Code 100 300 104 100 100 100 102	Message service (build 55) s trial period has 30 5.0.2.25398 Rb9NA backup volume C: VDIFF was disabled creating snapshot	tarted job manually a days left xaWpzpjgT/Pcb/yMQ \ (NTFS) d and then enabled or for \\?f00bc	s full == 105A-4E4B-5E3C-9E • C:\ 16da-a89e-11e3-a738-8	DA0-736B-2E4D-18E 06e6f6e6963}

คลิกที่ Backup History เพื่อดู รายงานการทำงาน, Error ของ Backup Job

การทำ Restore Data แบบ Quick Mount

เมื่อต้องการ Restore ข้อมูล ให้ไปที่ปลายทางที่เก็บ Backup Image File ไว้ (Destination Path) จะ พบว่ามีไฟล์ ที่ถูกสร้างโดย ShadowProtect ไว้หลายไฟล์ ไฟล์แรกสุดจะ .SPF (Full Backup) และที่ทำ backup ต่อมาจะเป็น .SPI (Incremental Backup)

C_VOL-b001.md5 Type: MD5 File		Date modified: 3/26/2014 5:00 PM Size: 50 bytes
C_VOL-b001 Type: ShadowProtect Full Imag	e	Date modified: 3/26/2014 5:00 PM Size: 4.19 GB
C_VOL-b001-i001.md5 Type: MD5 File		Date modified: 3/26/2014 5:06 PM Size: 55 bytes
C_VOL-b001-i001 Type: ShadowProtect Incremen	ntal Image	Date modified: 3/26/2014 5:06 PM Size: 788 KB
C_VOL-b001-i002.md5 Type: MD5 File		Date modified: 3/26/2014 5:10 PM Size: 55 bytes
C_VOL-b001-i002 Type: ShadowProtect Incremen	ital Image	Date modified: 3/26/2014 5:10 PM Size: 386 KB
C_VOL-b001-i003.md5 Type: MD5 File		Date modified: 3/27/2014 10:16 AM Size: 55 bytes
C_VOL-b001-i003 Type: ShadowProtectIncremen	ital Image	Date modified: 3/27/2014 10:16 AM Size: 9.26 MB

C_VOL-b001.md5 Type: MD5 File		Date modified: 3/26/2014 5:00 PM Size: 50 bytes
C_VOL-b001 Type: ShadowProtect Full Imag	Mount (M)	Date modified: 3/26/2014 5:00 PM 9 GB
C_VOL-b001-i001.md5 Type: MD5 File	Quick Mount (Q) 🔨	dified: 3/26/2014 5:06 PM bytes
C_VOL-b001-i001 Type: ShadowProtect Increment	Open with Restore previous versions	dified: 3/26/2014 5:06 PM 3 KB
C_VOL-b001-i002.md5 Type: MD5 File	Send to	pdified: 3/26/2014 5:10 PM bytes
C_VOL-b001-i002 Type: ShadowProtect Increment	Copy	odified: 3/26/2014 5:10 PM 5 KB
C_VOL-b001-i003.md5 Type: MD5 File	Delete Rename	odified: 3/27/2014 10:16 AM bytes
C_VOL-b001-i003 Type: ShadowProtect Increme	Properties	odified: 3/27/2014 10:16 AM

คลิกขวา เลือก backup file วันและเวลาที่ ต้องการ restore แล้วคลิกที่ Quick Mount รอสักครู่

 Hard Disk Drives (4) 	
Local Disk (C:)	Data (D:)
41.4 GB free of 52.5 GB 🔺	440 GB free of 878 GB
Local Disk (E:)	Local Disk (F:)
694 GB free of 698 GB	41.4 GB free of 52.5 GB

ShodowProtect สร้าง local drive จาก backup file เช่น backup จาก C: ถูก quick mount เป็น F:

💼 🕨 Compute	r 🕨 Local Disk (F:) 🔺		- - - f - j	Search Local Disk (Fi)
 Include in 	library 🔻 Share w	ith 🔻 Burn		
ites ktop wnloads ent Places				
ries	PerfLogs	Program Files	Users	Windows

เมื่อเข้าไปดูใน F: จะเห็นว่า เหมือนกับ C: จากนั้น ก็สามารถที่จะเปิด ไฟล์ หรือ โฟลเดอร์ เพื่อตรวจสอบ อ่าน หรือคัดลอก กลับสู่ ต้นทาง (เช่น C:) หรือ Share ได้

sk Drives (4)			
Local Disk (C:)		Data (D:)	
41.4 GB free of 52.5 GB	S	440 GB free of 878 GB	
Local Disk (E:)		Local Disk (F:)	Open
694 GB free of 698 GB	S	41.4 GB free of 52.5 GB	Open in new window
with Removable Storage (1) –		↑	Share with
			Restore previous versions
DVD RW Drive (G:)			Include in library
		_	Dismount
			Quick Dismount
			Format
			Сору
			Create shortcut
			Rename
			Properties

คลิกขวา ที่ F: เพื่อทำ Quick Dismount หลังเสร็จสิ้นการใช้งาน

การทำ Virtual Boot เพื่อสร้าง System ทดแทน (ชั่วคราว)

ในกรณีที่ ต้องการทำ คอมพิวเตอร์เสมือน (Virtual Computer) เพื่อใช้ทดแทนชั่วคราว ทดสอบระบบ หรือตรวจสอบการทำงาน ShadowProtect สามารถสร้างขึ้นได้จาก backup file โดยใช้ VirtualBox

C_VOL-b001.md5 Type: MD5 File		Date modified: 3/26/2014 5:00 PM Size: 50 bytes
C_VOL-b001	Mount (M)	Date modified: 3/26/2014 5:00 PM
Type: ShadowProtect	Quick Mount (Q)	Size: 4.19 GB
C_VOL-b001-i001	VirtualBoot	Date modified: 3/26/2014 5:06 PM
Type: MD5 File	Open with	Size: 55 bytes
C_VOL-b001-i001 Type: ShadowProtect	Restore previous versions	Date modified: 3/26/2014 5:06 PM Size: 788 KB
C_VOL-b001-i002	Cut	Date modified: 3/26/2014 5:10 PM
Type: MD5 File	Copy	Size: 55 bytes
C_VOL-b001-i002	Create shortcut	Date modified: 3/26/2014 5:10 PM
Type: ShadowProtect	Delete	Size: 386 KB
C_VOL-b001-i003 Type: MD5 File	Rename	Date modified: 3/27/2014 10:16 AM Size: 55 bytes
C_VOL-b001-i003 Type: ShadowProtect Incr	emental Image	Date modified: 3/27/2014 10:16 AM Size: 9.26 MB

คลิกขวา เลือก backup file วันและเวลาที่ แล้วคลิกที่ VirtualBoot รอสักครู่



คลิก Next

คลิก Add Image File กรณีที่ต้องการเพิ่ม image file อื่นๆ ที่ทำ backup ไว้ เช่น D:

		Add Image File	Remove Imag	e File	Specify Boot Volume
Boot	Drive	Image File		Machine	Creation Time
Yes	C:\	E:\C_VOL-b001-i003.spi		SUPPORT1	2014/3/27 10:16:

ถ้าเครื่องยังไม่ได้ทำการติดตั้ง VitualBox ให้คลิกไปที่ link และทำการ download เพื่อติดตั้ง VirtualBox



	VirtualBox USB Su VirtualBox Networ VirtualBox Networ VirtualBox VirtualBox VirtualBox VirtualBox Python	Pport application. Aking Bridge Host-C your hard drive. It h subfeatures selecte subfeatures require	s 119MB on las 3 of 3 d. The 636KB on yo	
	Location: C:\Program Files\Oracle\Vir	tualBox\	Browse	
v	ersion 4.2.4 Disk Usage	< <u>B</u> ack <u>N</u> ext >		
	Create a shortcut on the desktop	Bar	คลก Next	
v	ersion 4.2.4	< <u>B</u> ack <u>N</u> ext >	<u>C</u> ancel คลิก Next	
	Proceed w	, you not the network.		
v	ersion 4.2.4	Yes	<u>№</u> คลิก Yes	
v	ersion 4.2.4	< <u>B</u> ack Instal	ิ <u>⊆</u> ancel คลิก Install	
				11

🚛 Windows Security	
Would you like to insta	II this device software?
Name: Oracle Corp Vablisher: Oracle Co	oration Universal Serial Bus orporation
<u>A</u> lways trust software from	m "Oracle Corporation".
You should only install dri which device software is s	iver software from publishers you trust. <u>How can I decide</u> afe to install?
	Installation is completen install Click the Finish button to exit the Setup Wizard.
Version 4.2.4	< <u>Back</u> <u>Finish</u> ← <u>Cance</u> คลิก Finish

ShadowProtect VirtualBoot Wizard	
Options Specify how the virtual machine is created	
Automatically create the new virtual machine	
Automatically start the new virtual machine after creating it	
Specify the name of the new virtual machine:	1
SUPPORT1-TEST	– ชื่อของ Virtual Machine
Specify the amount of memory (RAM) to be allocated to the new virtual machine:	
1024 MB	
Specify the VM's network adapter type:	
NAT PRO/1000 MT Desktop (Best for Testing)	
Advanced	
< Back Next > Cancel	
คลิก Next	-

Wizard Summary Please review the options you have selected before completing this wizar	d iso
/OLUMES	
Boot Volume: E:\C_VOL-b001-i003.spi DOPTIONS The virtual machine will be created automatically. After the virtual machine has been created, it will be started automatically. The new virtual machine's configuration will be named: SUPPORTI-TEST The megabytes (MB) of RAM allocated to the virtual machine will be: 1024 Vetwork Adapter: NAT PRO/1000 MT Desktop (Best for Testing)	VirtualBoot - Install VirtualBoot Plugin for VirtualBox 23 The plugin which enables VirtualBox to use ShadowProtect backup image files does not appear to be installed. If a plugin is not installed then VirtualBoot will not attempt to automatically create a new virtual machine. VirtualBoot has a plugin (3 files) which matches the installed version of VirtualBox. VirtualBoot can automatically install the plugin by copying the following files to the VirtualBox program files directory
์ <u>Sack</u> คลิก Finish	VBoxHDDXSP.dll sbimageapi.dll sbimageapi.dll.conf If you upgrade VirtualBox after installing the VirtualBoot plugin, then the plugin may not work with the new version of VirtualBox. In this happens, please search the StorageCraft support forums for a version of the VirtualBoot plugin which supports your upgraded version of VirtualBox. Select (Yes) to automatically install the matching plugin or (No) if you do not want to install the plugin.
คลิก Yes	Yes No



📆 SUPPORT1-TEST (VirtualBoot) [Running] - Oracle VM VirtualBox	
Machine View Devices Help	
© Microsoft Corporation	
	일 💿 🗗 📖 🛄 🖉 💽 Ctrl 🔡

Windows เริ่มทำงานใน VirtiualBox

การทำ System Restore

ใส่แผ่นซีดี และ Boot up เครื่องด้วย ShadowProtect 5





คลิก Yes ถ้าต้องการให้ Network ของเครื่องทำงาน

💗 StorageCraft Recovery E	nvironmer	nt	8 ×
File Tasks View Tools	Help		
Tasks	8	🖇 Wizards 💿 Disk Map 📋 Task Manager	
Image: Second System		Select this wizard to guide you through creating a backup image of the entire computer or specific volumes	
Tools	۲	Restore Wizard Select this wizard to guide you through restoring data you have previously backed	
Image: Select Time Zone Image: Select Time Zone	JTC+07:00)) Bangkok, Hanoi, Jakarta	
Computer Name: minint-4kr9 Ip Address: 192.168.0.12 Time Zone: GMT Standard Time	۲ Angk ime		
Status	*		

ตั้งค่า เขตของเวลาประเทศ



หน้าจอแรกของ ShadowProtect

เลือกที่ Di	sk map				
S With S = 100 million M = 100 mil	zards S Disk Map	Task Manager			
🧊 Dri	ve A:	คลิกขวาเลือกการ	ทำงานสำหรับ Disk	เช่นCreate Partit	tion, Format
	Create Partition Create Partition Minimum offset: Starting Offset:	32256 32256	Maximum offset:	85899345920	
	Minimum size: Size:	7.81 MB 80.00 GB	Maximum size:	79.99 GB	
	Partition Type:	NTFS CK	Advanced Cancel]	



StorageCraft	Recovery E	nvironm	ent				
File Tasks	View Tools	Help					
Tasks		۲	🌮 Wizards 🕥) Disk Map 📋 Task Mana	ager		
🎯 Backup Vo	olume	- 1					
🧏 Restore V	olume			n			
💐 Explore B	ShadowPr	otect - L	.oad Drivers				×
🧾 Dismount	B		ومراجع ومرينياته والتلو المراجع	تطفيه والمرابع والمرابع			
🜏 Verify Bac	k controller	or networ	'k adapter device driver	s for these devices.Many	additional driver files for a	drivers which are not yet	
	running, b	out which r	may be loaded, are four	nd in the "\Additional Drive	ers" directory of the Reco	very Environment. In this	5
Tools	immediate	ly install a	and execute them.		ver (s) you wish to load an		
Tools							ked
🚽 Network (20						
🏷 HIR Confi	g						
load Drive	ei	Г	Add Dath	Delete	DOWN	LID	1
🧔 File Brows	же		Audraui	Delete			<u> </u>
🔞 Select Tim	E					2	
Keyboard	5						
褶 Refresh V	0				i.		
0			ดลิก Add Pa	ath เพื่อเลือกต่ำ	แเหน่งที่เก็บ Driv	ver ไว้	
b Info							
Computer Nam					Lord	Class	
ID Address: 19	2				Lodu	Close	
Time Zone: SE	Asia Standard						
Time							
Status		۲					



คลิก Network Configuration สำหรับการตั้งค่า Network และตั้งค่า การทำ Restore ผ่าน Network

👰 PE Network Manage	er 0.58.B11				🞽 คลิก Connect เมื่อตั้งค่าเสร็จ
🕮 Properties	Drive letter:	Z:		Connect	
😟 Computer	Path:	\\192.168.0.22	backup	•	า กาหนด Path ทเกบ Backup เว
😴 Sharing	Usemame:	Administrator		•	🕂 ใส่ User Name
network Drives	Password:				1d Password
🖹 Profiles		•	. 0 0/		
👌 Other	Browse network	กาหนด d	rive สาหรา	⊔การ Map	
? About	Connected netw)			×
	(Successfully m	apped "\\192.16	i8.0.22\backup	" to local drive "Z:" .
About					
₽	Connected network	lrives:	*	Disconnect	
	Local Remote	2) ha alaun	Status	Open	🗖 Drive ที่ Map
	2: \\192.168.0.2	.2 Фаскир	UK		
	Apply	<u> </u>	×	<u>C</u> lose	



 Restore Wizard Welcome to the Restore Wizard! This wizard will help you restore data you have previously backed up. คลิก Next Press Next to continue Next > Cancel เลือก Restore Restore 4 C Resume aborted restore C Restore subsequent incrementals คลิก Next

< Back

Next >

C Finalize an HSR restore

Cancel

X

:\C_VOL-b001-i00	3.spi					Browse
Image File Pro	perties					
Volume Size		52.51 GB				
Used space		12.85 GB				
Creation Time		3/27/2014	3:03:21 PM		-	
931.51 GB	Unallocated spa 101.00 MB 52.5	5* 1 GB	NTFS 878.90 GB			
		เลือก	ตำแหน่ง	ที่จัดเก็บ Bac	kup File	•
			< Back	Next >		Cancel
				ื คลก Ne	xt	
	3/27/2014 12:03:20 PM 3/27/2014 1:03:21 PM 3/27/2014 2:03:21 PM 3/27/2014 3:03:21 PM		Image cre	ation method	VDIFF direct	,
)31.51 GB	Unallocated space 101.00 MB	NTFS* 52.51 GB		NTFS 878.90 GB		
			< Back	Next >		Cancel

~	Drive Letter	Volume	File System	Size	Used	Partition Type	Partition Flags
3	Disk 0: VMware,	VMware Virtual S					
Z	C:\	New Volume	NTFS	80.00 GB	92.22 MB	NTFS	Pri
	Drive A: 3.5" flop	opy, 1.44MB (Remov	able Media)				
1	A:\	(Removable Me		0 B	0 B		
1	Disk : Unknown [Disk					
1	X:\	Soot 🕞	NTFS	33.34 MB	2.43 MB	Unknown	
	เลือก ตำแหน	ม่งที่ต้องการ Res	store				
te	e: You can right click	on a volume and delete	e it to create free	space.		คลก Ne	xt
				< Back		Next >	Cancel
	Finalize the volur	me at the end of this re ot be usable by users o	store r applications until	it is finalized. If	the volume is n	ot finalized then subs	sequent incrementals
	 Finalize the volur The volume will ne from the same bat (HSR). Generate a HSR 	me at the end of this re ot be usable by users of ackup set can be restore , file to use in a future f	store r applications until ed to the volume a inalization	it is finalized. If t a future time.	the volume is n This staging of	ot finalized then subs the restore is called H	sequent incrementals HeadStart Restore
	 Finalize the volum The volume will n from the same ba (HSR). Generate a .HSR 	me at the end of this rea ot be usable by users or ackup set can be restore ; file to use in a future f	store r applications until ed to the volume a inalization	it is finalized. If t a future time.	the volume is n This staging of	ot finalized then subs the restore is called H	sequent incrementals HeadStart Restore
	 Finalize the volum The volume will n from the same ba (HSR). Generate a .HSR Generating a .HS 	me at the end of this rea ot be usable by users or ackup set can be restore t file to use in a future f R file makes it possible f	store r applications until ed to the volume a inalization to finalize with the	it is finalized. If t a future time. .HSR file alone,	ithe volume is n This staging of without access	ot finalized then subs the restore is called f to any of the backup N Next	equent incrementals HeadStart Restore

🖏 Restore Wizard			×
Wizard Summary Please review the options you have selected before the	wizard will finish		
Image Files Chain: Z:\C_VOL-b001.spf Z:\C_VOL-b001i001.spi Z:\C_VOL-b001i002.spi Z:\C_VOL-b001i003.spi Z:\C_VOL-b001i004.spi Z:\C_VOL-b001i005.spi Z:\C_VOL-b001i005.spi Z:\C_VOL-b001i006.spi Z:\C_VOL-b001i008.spi			<u> </u>
Destination Volume: C:\(New Volume)			•
		Click finish t	to start restore operation
I Use Hardware Independent Restore (when restoring to a Advanced	< Back different computer)	Finish	Cancel

สำหรับการทำ Restore ไปยังเครื่องอื่นๆ ที่ไม่ใช่เครื่องเดิม จะต้องทำ Restore แบบ HIR (Hardware Independent Restore) โดยการเลือกที่ช่อง Use Hardware Independent Restore และคลิก Advance

คลิก Add Dir สำหรับตำแหน่ง ที่จัดเก็บ Driver ของเครื่องใหม่ ทั้งหมด

ShadowProtect HIR Co	onfiguration - Advance	ed Options			×
This tool will attempt to a chooses to install by spe (.INF) files. If the Stora controller's driver here.	automatically install optim cifying folders containing igeCraft knowledge-base	al drivers for the storage of the driver(s) of your choic indicates that your storage	ontrollers on this compute e. Only add folders to th e controller is not support	er. You can override the e list which contain both ed, then you must add th	driver(s) that this tool driver and installation le path to your storage
	Add File	Add Dir	Delete	DOWN	UP
While precedence will alv and instead uses generic	ways be given to the best c drivers.	: matching driver, you can s	specify how tolerant this	tool will be if it cannot find	d exact matching drivers
LOW matches will be ins	stalled if no better matche	es are tound			
De-Activate Window	S			ок	Cancel
				คลิก OK	



การทำ Remote Management

Shadow Protect สามารถที่จะทำ Remote Management ไปที่เครื่องอื่นๆ ของระบบที่ติดตั้ง Shadow Protect ไว้เพื่อควบคุม ตั้งค่า และดูสถานะ ของการทำงานได้



	· ·			I	•		•		•	•
	Local Machine Agent Status	(1) Good: 1 F	ailed: 0 Ignored: 0							
0	localhost		Connected	0	3/28/2014 2	3/28	/2014 3:00.	. 0		
			ิคลิก Add							



Backup John Floor	alhost 1 💦 👩 Destinations [localbost 1	P Backup His	tony [localbost]
Wizards	Management View	localitosci	🖓 Dickup His 🔞 Disk Man -	- [localhost]
Connect Disconnect Add	Oelete Edit Manage Install			[]
Connect	Connection Status	Last Backup	Next Backup	Backup F Backup P
Unmonitored Nodes (1)	1			
🕒 DataBase Server	🗙 🛃 Disconnected			
Local Machine (1) Agent Status Good: 1	Failed: 0 Ignored: 0			
🥝 localhost	Connected	or 3/28/2014 🕜	4 4 3/28/2014 5:00	0
	คลิก Connect			
🛛 🐻 Backup Jobs [loca	alhost] 👘 🔯 Destinations [localhost]	👔 Backup His	tory [localhost]
🌮 Wizards	🥟 Management View	' <u> </u>	👩 Disk Map -	- [localhost]
Connect Disconnect	Oelete Edit Manage Install			
Computer	Connection Stat Manage	Last Backup	Next Backup	Backup F Backup P
Onmonitored Nodes (1)				
🤡 DataBase Server	💂 Connected		Never	0
	\sim	\mathbf{X}		
Local Machine (1) Agent Status Good: 1	Failed: 0 Ignored: 0	$\backslash \backslash$		
 Local Machine (1) Agent Status Good: 1 Iocalhost 	Failed: 0 Ignored: 0	3/28/2014	4 4 3/28/2014 5:00	0

🥬 Wizard 😈 Backup Jobs	s 🌮 1 [DataBase Server]	Management View Destinations [Data	Base Server]	😼 Disk N 🌚 Back	lap [DataBa :up History	ase Server] [DataBase Server]
xecute Cancel Pau	I 🚱 🚳 🕅 Ise New Delete Edit	Q Details → 😂 Refresh				
Name	Туре	Status	Next Run 1	ime		
	Scheduled Backup	Job running	3/28/2014 5	:00:00		
asic Properties						
asic Properties				_		۲
asic Properties Job Status O Task Details: C:	\ (No Label) -> D:\Backup\[DataBase Backup-b001.	pf			۲
asic Properties Job Status O Task Details: C: Task Status: rur	\ (No Label) -> D:\Backup\[ming	DataBase Backup-b001.	pf			۲

หน้าจอจะเปลี่ยนไปเป็น หน้าของเครื่องที่ถูกทำ Remote สามารถที่จะสั่งงาน ตั้งค่า และดูสถานะ ได้













STORAGECRAFT.

โปรแกรม ImageManager เป็นโปรแกรมสำหรับการจัดการ Backup File ที่สร้างมาจาก ShadowProtect สามารถทำการตรวจสอบ, ยุบรวม Backup File และ สำเนา backup file ได้

🔜 StorageCraft ImageManager			
Iocalhost : 56765			
	Change Password		
	Old Password: New Password: Confirm New Password: QK	alhost56765	
		ตั้งค่า password	

	📁 Managed Folder Set	tings	X			
คลิก Start	Folder Path:	ΕΛ		เลือกตำแหน่งที่เก็บ		
Managing Folde	Description:		(optional)	backup filo		
	This folder requires	authentication		раскир ше		
	Use the defau	Iltfolder credentials defined in Agent S	ettings			
	O Define specifi	ic credentials for this folder:				
Managed Folder Tasks	Demain av C	omputor or bl0Cr				
🔁 Start Managing Folder	Domain or C	omputer or NAS:				
📷 Stop Managing Folder	Username:			lick the		
☑ Verification Settings	Password:					
Consolidation Settings	Qualified Na	ime:				
Retention Settings			200 (m 200)			
🕵 <u>F</u> older Settings	Assign sort priority	relative to other managed folders:	255 📰 (0-255)			
Agent Tasks	Assigning a sol move to the to	rt priority will override column sort ord p of the managed folders list.	ers and cause this folder to			
🛃 Connect to Agent						
_{動 D} isconnect Agent		2	ave <u>C</u> ancel	- Save		
€ <u>R</u> efresh						
Folder Path:	\\192.168.0.22\Backup		การกำหนดตำแห	หน่งที่เก็บ Backup File		
Description:		(optional)				
This folder requires a	มานทาง Network					
M mistolaerrequies a	anenacadon					
🔘 Use the default	folder credentials defined in Agen	t Settings				
Operation Define specific of the specific o	redentials for this folder:					
Domain or Cor	Domain or Computer or NAS: 192.168.0.22					
Username:		Administrator	ใส่ User Name			
Password:		•••••	ใส่ Password			
Qualified Nam	e: 192.168.0.22\Ao	dministrator				

urce Computer 🛛 🔺	Managed Folder	Folder Size	Free Space	Image Files	Volume Capacity: 233.76 G
SUPPORT1	🔁 E:\	11.27 GB	95.1%	2	
SUPPORT3	N192.168.0.22\backup	6.21 GB	35.3%	5	Free (222,40 GB) • (11.2
Managed Folder Tas	ks Folder	on Settings iately verify newly crea	ted image files		×
💼 S <u>t</u> op Managing	Folder 📝 Periodi	cally re-verify existing	image files every:		7 📑 Days (1-30)
☑ Verification Sett	ings 📃 Overric	le default performance	e impact for image	file verification:	
Consolidation S	ettings				
😇 Retention Settin	ngs Low		50%		High
er <u>F</u> older Settings.					Save Cancel

คลิกที่ Verification Settings เพื่อตั้งค่าการทำตรวจสอบ backup file

- Immadiately Verify newly created image files : ตรวจสอบทุกครั้งที่มี backup file ใหม่
- Periodically re-verify existing image files every : ตรวจสอบตามจำนวนวันที่กำหนด

การตั้งค่า ยุบรวมไฟล์ (Consolidation) ของการทำ Incremental Backup ของวัน, อาทิตย์ และ เดือน

Managed Folder Tasks Start Managing Folder Stop Managing Folder Yerification Settings Consolidation Settings Retention Settings Folder Settings Retention Settings Gonnect to Agent Sisconnect Agent Refresh Start Processing	 Consolidation Settings Enable image file consolidation for this managed folder Veekly Consolidation Last day to include in consolidated Weekly images: Saturday Consolidated Weekly image files includes all changes for a given week up to, and including, the last backup taken on the last day of the week, or the last backup taken on a previous day if no backup occured on the last day of the week. N onthly Consolidation Last day to include in consolidated Monthly images: A specific day: 31 (1-31) A relative weekday: Image file consolidation starts the day after new images are created.
คลิกที่ Consolidation Setti	ng คลิก Enable image file consolidation for this manage folder

การตั้งค่า Retention ล้าง backup file ที่ถูกทำ Consolidation แล้ว

	The Retention Settings	— ×-
	Override global agent retention settings for this managed folder	
	Automatically clean up backup image files in this managed folder:	
Managed Folder Tasks	Keep intra-daily image files for at least:	7 🚍 Days (1-365)
Start Managing Folde	Keep consolidated daily image files (-cd) for at least:	15 🚔 Days (7-365)
🔓 Stop Managing Folde	Keep consolidated weekly image files (-cw) for at least:	90 🚔 Days (30-365)
	Cleanup consolidated monthly image files (-cm)	
Consolidation Setting	Keep consolidated monthly image files for at least:	12 🖂 Months (1-120)
Retention Settings		·
rolder settings	Move consolidated daily and weekly image files to a subdirectory instead of del	eting them
Agent Tasks	(Note: ImageManager always deletes intra-daily image files.)	
🛃 Connect to Agent		
🛃 Disconnect Agent	ImageManager may keep image files longer than the days specified if they are files of the second	needed for other operations.
€ <u>R</u> efresh	deleted until a Consolidated Monthly image file is created that contains the fil	days, those files are not es.
Start Processing		
Notification Settings.		
🛃 Licensing	s	ave <u>Cancel</u>
🏟 Agent Settings		
	คลิก Override global agent retention setting for this mana	iged folder

้ตั้งค่าให้ทำการลบไฟล์ ที่ถูก Consolidate แล้วของแต่ละ วัน, อาทิตย์ และ เดือน โดยจะทำการลบ increment file ต่างๆ เมื่อครบตามจำนวนวันที่กำหนดไว้

Replication Ta	argets (0) <u>on target</u> คลิก Add New Replication target	۲
Publication Target for	hadrup impage of SUDBORT1	
eneral Replication Mod		
Name: Replicate	e backup images of SUPPORT1	
Type:	โ≣ Local Drive → ← แลือก Local	Drive
Location:	⊧ง เลือก Drive	ปลายทาง
Subdirectory:	E (SUPPORT1)	
– Performance & Securit	by	
Replication Target for b	packup images of SUPPORT1	
Replication Target for b eneral Replication Mode	packup images of SUPPORT1 ■ ■ ■	n Mode
Replication Target for b eneral Replication Mode Are you replicating to a fo	packup images of SUPPORT1 e e e e e e e e e e e e e	า Mode รทำ Consolidate
Replication Target for b eneral Replication Mode Are you replicating to a fo No - Replicate all c Z Also replicate of	packup images of SUPPORT1 e e e older being consolidated by a second ImageManager? consolidated files originalunconsolidated intra-daily image files	า Mode รทำ Consolidate
Replication Target for b eneral Replication Mode Are you replicating to a fo No - Replicate all co V Also replicate o Files moved or	packup images of SUPPORT1 e e e older being consolidated by a second ImageManager? consolidated files original unconsolidated intra-daily image files r deleted by ImageManager are deleted on the destination	า Mode รทำ Consolidate
Replication Target for b eneral Replication Mode are you replicating to a fo No - Replicate all co Zer Also replicate of Files moved or Yes - Replicate only	packup images of SUPPORT1 e e e e e e e e e e e e e e e e e e	า Mode รทำ Consolidate
Replication Target for b eneral Replication Mode Are you replicating to a fo ONO - Replicate all c ONO - Replicate all c ONO - Replicate all c ONO - Replicate only ONO - Replicate only ONO - Replicate only ONO - Replicate only	Packup images of SUPPORT1 e e e e e e e e e e e e e e e e e e	า Mode รทำ Consolidate
Replication Target for b eneral Replication Mode Are you replicating to a fo No - Replicate all c V Also replicate all c V Files moved or Files moved or Yes - Replicate only Yes - Replicate only Yes - Replicate only	Packup images of SUPPORT1 ■ ■ ■ ■ ■ ■ ■ ■ ■ ■ ■ ■ ■ ■ ■ ■ ■ ■	า Mode รทำ Consolidate
Replication Target for b eneral Replication Mode are you replicating to a fo No - Replicate all co Also replicate all co Also replicate any Files moved or Yes - Replicate only Yes - Replicate only Yes - Replicate only Also replicate only The second	packup images of SUPPORT1 e e e e e e e e e e e e e e e e e e	n Mode รทำ Consolidate
Replication Target for b ineral Replication Mode are you replicating to a for No - Replicate all co Zer Also replicate all co Zer Files moved or Yes - Replicate only Yes - Replicate only Yes - Replicate only Yes - Replicate only 18้เครื่องอื่นในr - ให้ทำ replica - เมื่อ backup	Packup images of SUPPORT1 Image of SUPPORT1 Image of Support of Suppo	n Mode รทำ Consolidate
Replication Target for b neral Replication Mode we you replicating to a fo No - Replicate all co Zeries - Replicate all co Zeries - Replicate any Yes - Replicate any Yes - Replicate any Yes - Replicate any Yes - Replicate any 2 ใช้เครื่องอื่นในกา 2 ใช้เครื่องนี้ในกา	Packup images of SUPPORT1 e คลิก Replication older being consolidated by a second ImageManager? ↓ ทิลิก Replication It in the destination y consolidated files original unconsolidated intra-daily image files r deleted by ImageManager are deleted on the destination y consolidated daily image files y original unconsolidated intra-daily image files n วรทำ Consolidate file ต้นทางถูกย้าย หรือลบ จาก ImageManager ให้ทำที่ปลายทางด้วร กรทำ Consolidate	n Mode รทำ Consolidate
Replication Target for b eneral Replication Mode Are you replicating to a fo No - Replicate all co Also replicate all co Files moved or Yes - Replicate only Yes - Replicate only Yes - Replicate only Yes - Replicate only Yes - lắiครื่องอื่นในก - ให้ทำ replica - ให้ทำ replica	Packup images of SUPPORT1 Packup images of SUPPORT1 Pain Replication Point Replication Po	n Mode รฑํา Consolidate
Replication Target for b eneral Replication Mode Are you replicating to a fo ♥ No - Replicate all co ♥ Also replicate all co ♥ Also replicate all co ♥ Files moved or ♥ Yes - Replicate only ♥	Packup images of SUPPORT1 Packup images of SUPPORT1 Packup images of SUPPORT1 Packup images of SUPPORT1 Packup image files Packup image file	n Mode รทำ Consolidate

การตั้งค่า Replication ไปที่ Network (การทำงานชนิดนี้ ต้องมี License)

Type: INdetwork Drive INdetwork Drive ที่ขายงงาน Replicate Name: Replicate Support1 Server: 192.168.0.22 This location requires authentication Domain or Computer or NAS: 192.168.0.22 Username: Administrator Administrator Qualified Name: 192.168.0.22Vudministrator Save Cancel	📑 Location S	Settings		×	
Name: Replicate Support1 ที่มีของงาน Replicate Server: 192.168.0.22 This location requires authentication Domain or Computer or NAS: 192.168.0.22 Username: Administrator ใส่ชื่อ User Name Password: Save Cancel Replicate backup images of SUPPORT1 ■ X Status: 99% Sending C_VOL-b001.spf Replicate backup images of SUPPORT1 ■ X Status: 99% Sending C_VOL-b001.spf Queued Files: 4 Add new replication target	Туре:	🧮 Network Drive		•	្រាស់ Network Drive
<pre>Server: 192.168.0.22 Share: Replicated-Support1 IP Address - ชื่อเครื่องปลายทาง onurvuivที่ใช้เก็บ Replicate IP Address - ชื่อเครื่องปลายทาง onurvuivที่ใช้เก็บ Replicate IP Address - ชื่อเครื่องปลายทาง ใส่ชื่อ User Name Replication Targets (1) Save Cancel IP Address - ชื่อเครื่องปลายทาง ใส่ชื่อ User Name ใส่ password ใส่ password ได้ password Status: 99% Sending C_VOL-b001.spt FAE (SUPPORT1) Add new replication target</pre>	Name:	Replicate Support1			— ชีอของงาน Replicate
Share: Replicated Support1 Image: Cancel ตำแหน่งที่ใช้เก็บ Replicate IP Address - ชื่อเครื่องปลายทาง ได้ชื่อ User Name Password: Qualified Name: 192.166.0.22 Udministrator Save Cancel Image: Replicate backup images of SUPPORT1 Image: File Replicate backup images of SUPPORT1 Image: File Add new replication target	Server:	192.168.0.22			- IP Address - ชื่อเครื่องปลายทาง
It is location requires authentication Domain or Computer or NAS: 192.168.0.22 IP Address - ชื่อเครื่องปลายทาง Username: Administrator ใส่ชื่อ User Name Password: Image:	Share:	Replicated-Support1			ตำแหน่งที่ใช้เก็บ Replicate
Domain or Computer or NAS: 192.168.0.22 IP Address - ชื่อเครื่องปลายทาง ใส่ชื่อ User Name ใส่ชื่อ User Name ใส่ password Password:	📝 This locat	tion requires authentication			· ·
<pre>Username:Administratorใส่ชื่อ User Name Password:ใส่ password Qualified Name: 192.168.0.22\Administrator </pre>	Domain	or Computer or NAS:	192.168.0.22		- IP Address - ชื่อเครื่องปลายทาง
Password: โล่ password Qualified Name: 192.168.0.222,4dministrator Sawe Cancel Sawe Cancel Replication Targets (1) Status: Price Replicate backup images of SUPPORTI Status: 99% Sending C_VOL-b001.spf Price (SUPPORTI) Add new replication target 4 Add new replication target 0nñă vi în vnu Replicate	Usernar	me:	Administrator		🗕 ใส่ชื่อ User Name
Qualified Name: 192.168.0.22\Administrator Save Cancel	Passwo	rd:	•••••		ู่ได่ password
Save Cancel Cancel Cancel Replication Targets (1) Cancel Replicate backup images of SUPPORT1 Status: 99% Sending C_VOL-b001.spf Price (SUPPORT1) Cancel Cancel Add new replication target 4 Add new replication target กำลังทำงาน Replicate	Qualifie	ed Name: 192.168	3.0.22 Administrator		
Save Cancel					
Replication Targets (1) Replicate backup images of SUPPORT1 II × Status: 99% Sending C_VOL-b001.spf F:\E (SUPPORT1) Add new replication target Add new replication target			Save	Cancel	
Replication Targets (1) Replicate backup images of SUPPORT1 F:\E (SUPPORT1) Add new replication target Status: 99% Sending C_VOL-b001.spf Queued Files: 4 Add new replication target กำลังทำงาน Replicate					-
Replicate backup images of SUPPORT1 Status: 99% Sending C_VOL-b001.spf F:\E (SUPPORT1) Queued Files: 4 Add new replication target กำลังทำงาน Replicate	🛜 Replic	cation Targets (1)			
F:\E (SUPPORT1) Queued Files: 4 Add new replication target กำลังทำงาน Replicate	×	Replicate backup images of SUP	PORT1 🔢 🗙	Status: 99% S	ending C_VOL-b001.spf
Add new replication target กำลังทำงาน Replicate	-	F:\E (SUPPORT1)		Queued Files:	4
กำลังทำงาน Replicate	Add ne	w replication target			
TI MINI NI LA REPLICATE					200 min Donlingto
					TIMANIA Replicate
					KKKKKKKI I
					XXXXXXXXX/
XXXXXXX					

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