

# Using StorageCraft Recovery Environment

**Quick Start Guide** 

Version R91

English

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## Using StorageCraft Recovery Environment

A backup created using **System Backup and Recovery** can be restored on a target machine by booting up the machine using the *StorageCraft Recovery Environment* ISO.

Note: This document only describes commonly used features in the *StorageCraft Recovery Environment*. See the **StorageCraft Recovery Environment User Guide** (http://www.storagecraft.com/support/book/storagecraft-recovery-environment-user-guide) for more information.

#### Creating the StorageCraft Recovery Environment CD

- 1. Navigate to the System Backup and Recovery > Images > Mount page within the VSA.
- 2. Select the machine with the backup image you want to restore.
- 3. Click Download Recovery ISO and save the zip to a download location.
- 4. Extract the bootable StorageCraft Recovery Environment ISO from the zip file.
- 5. Create a recovery CD based on the ISO.

#### **Recovery Environment Prerequisites**

- 1. Ensure the computer you want to restore can boot from a CD.
- 2. If accessing the backup image by network location:
  - Identify the network location and credential required to access the location of your backup. Backup locations are specified by profile on the VSA > System Backup and Recovery > Profiles > Manage page.
- 3. If accessing the backup image by local, external USB drive:
  - > Copy the backup image to the USB drive.
- 4. Identify the password the backup image is encrypted with, if one was used to create the backup. The password displays on the VSA > System Backup and Recovery > Profiles > Manage page.

#### **Running Recovery Environment**

- 1. Insert the StorageCraft Recovery Environment CD into the target computer you want to restore.
- 2. Boot the target computer from the CD.
- 3. Select a language.

ShadowProtect Recovery Environment Deutsch (Deutschland) Espisiol (Expine), afdoetzación internacional) franças (Prance) italano (Diala) Português (Portugal) Torkige (Portugal) Torkige (Turkiye) 한국(中華人民共和国) 中文(中華人民共和国) 中文(中華人民共和国)	

Note: The following instructions assume you are backing up from a network location. If accessing a backup on a local, external USB drive, in step 4 click Cancel and ignore steps 5 through 9.



4. Select **OK** to set options for accessing a backup on a network location.

Note: If you see a time zone dialog, as shown in step 10 below, the Network Support dialog might be hidden behind the StorageCraft Recovery Environment window. Select a time zone, then minimize the window. If you still do not see the Network Support dialog, restore the StorageCraft Recovery Environment window and click the Network Configuration link to display the same Network Support dialog.

- 5. Select an adapter. Options include:
  - > Obtain an IP address automatically *Recommended*.
    - ✓ DHCP Details
    - ✓ Release
    - ✓ Renew.
  - Use the following IP address. You can specify multiple IP addresses and gateways, if necessary.
    - ✓ IP address,
    - ✓ Subnet mask,
    - ✓ Default gateway.
  - DNS and WINS Servers
    - ✓ Click More to specify one or more IP addresses for the DNS or WINS environment.
  - Network Identification
    - ✓ Recovery Environment generates a computer name to use. You can overwrite it.
    - ✓ Workgroup
    - ✓ Primary DNS suffix
- 6. Click Apply to save your settings but do not click Close.

<u>N</u> etwork Drives	Ele Sharing	🥥 En	glish	•
Ethernet Adapters				-
Intel(R) PRO/100	0 MT Network Connectio	n		
Link Speed/Duplex Mode:			*	
IP Addresses			۲	
• Obtain an IP address a	utomatically			
DHCP Details	Re	ease	Renew	
O Use the following IP a	ddress:			
IP Address:	10 .10 .14 .21		∉ More	
Subnet Mask:	255.255.255.0	)		
Default Gateway:	10 .10 .14 .1		∉ More	
Use static gateway a	addresses			

- 7. Click Network Drives to configure drive mappings and file sharing.
  - > Use Map Network Drive to manually configure drive mappings, or
  - > Use Browse Network to browse by domain or computer name.

Either method populates the **Mapped Network Drives** list. You may be asked to provide a credential to complete the mapping.

8. Click Close, then Apply, then Close to save your settings.

	Map Network Drive	Browse	Network
Select path	t a drive and enter a network to map the drive to:	Enter a Domai	n or Computer name resources:
Drive: Nebwork Path: User Name: Password:	B: Map Drive  Apped Network Drives  Network Path	WORKGROUP	+ 2 /
Refre	sh 🕼 Disconnect	<u>C</u>	X Close

- 9. Expand the minimized StorageCraft Recovery Environment window if necessary.
- 10.Select a time zone.

StorageCraft Recovery Environ	nent <u>i</u> el×
File Tasks View Tools Help	Wizards Disk Map 🔐 Task Manager
<ul> <li>Backup Volume</li> <li>Restore Volume</li> <li>Explore Backup Image</li> <li>Dismount Backup Image</li> <li>Verify Backup Image</li> </ul>	Select this witard to guide you through creating a backup image of the entire computer or specific volumes
Tools 2	Restore Wizard Select this wizard to guide you through restoring data you have previously backed
Hetwork Configuration     Het Configuration     Load Drivers     File Browser     Select Time Zone     Keyboard Settings     Refresh Volumes Info	or dinated Universal Time
Computer Name: minit-vm32u86 Ip Address: 30.10.14.211 Time Zone: GMT Standard Time	
Status *	CAP NUM SOIL

11.Click Restore Wizard.



#### 12.Click Next.

le Tasks View Tools	Help	
Tasks	Wizards Disk Map I Task Manager	
1 Backup Volume		
😸 😼 Restore Wizard		×
	Welcome to the Restore Wizard!	
	This wizard will help you restore data you have previously backed up.	
- 188		
	Press Next to continue	
omi p Al	<back next=""> Car</back>	rcel
me		
Status	8	

#### 13.Click Restore.

StorageCraft Recovery Environm	ent.				_ 6
File Tasks View Tools Help Tasks	P Waards	👁 Disk Map [ 🔡 Ti	ssk. Manager		
Restore Wizard Restore type Spedfy the restore type	5. 5				×
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Com Ip A Time Status V			< Back	Next >	Cancel
	<u> </u>				CAP. NUM. SC

14. Select the backup image to restore.

Storagecraft Recovery Environment			_	_	_10
Tasks (8)	ards 🕥 Disk Map 🚺	Task Manager	_		
💖 Backup Volume					
Restore Wizard     Backup Image To Restore     Select the backup image you want to re	store				×
<b>5</b>				Brows	e
2 2					
<u>a</u>					
8					
5					
Com Ip Ar Time	<u> </u>	< Back	Next >	Ca	
Status ¥					
					CAF NUM SI

#### Using StorageCraft Recovery Environment

15. Browse to the network location or external USB drive location where your backup image is located.

Backup Volume					
Restore Wiza	und				×
Backup Imag	ge To Restore				
	V Open		-	-	
1	Look in:	backups		2 EB.	
	Name +		<ul> <li>Date modified</li> <li>12/19/2012 5:40.</li> </ul>	+ Type File folder	Brouse
	wil-62-1	sa2.root.unnamed-ExecuteNow	12/19/2012 5:34.	File folder	ar un genn
	WPTest	1	12/18/2012 3:52	File folder	
	WPTest	3	12/18/2012 4:10.	File folder	
	C_VOL.	pf	1/23/2013 8:39 A	M SPF File	
	<u>+ </u>			<u> </u>	
	File name:	C_VOL	-	Open	
1	Files of type:	ShadowProtect files		Cancel	
n,					
4		<	Back	Next >	Cancel
					11.

16.If the backup image selected was encrypted with a password, you are prompted for a password. The password displays on the VSA > System Backup and Recovery > Profiles > Manage page.

Badup Volume	File Tasks View Tools	Help           Wizards         Disk Map         Task Manager	
ShadowProtect IT Browse Please enter the backup image password Com DA Com DA Tme Cancel	Backup Volume Backup Image Select the bad	To Restore up image you want to restore	×
Com Ip Ar Time Cancel	8 1 0 6 8 4 ¢ f (	ShadowProtect IT Please enter the backup image password	Browse
Status V	Com Ip Ar Time Status	< Back Net	t> Cancel

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17. Select the hard disk on the target computer you want to restore.

Restore Wizar Restore Desti	d ination					
Select the vol	ume or free space where y	ou want to restore	e your backup			2
Drive Letter	Volume	File System	Size	Used	Partition Type	Partition Flags
Disk 0: VHw	are Virtual disk					
[] C:\	System Reserved	NTES	100.00 MB	28.13 MB	NTFS	Act,Pri
D:/	🖘 No Label	NTES	39.90 GB	28.84 GB	NTFS	Pri
Drive A: 3.5"	floppy, 1.44MB (Remov	vable Media)				
□ A:\	(Removable Me		0.8	0.8		
Disk : Unkno	wn Disk					
□ X:/	Soot 😳	NTFS	33.39 MB	2.43 MB	Unknown	
Note: You can right	t dick on a volume and delet	e it to create free	space.			
		1	< Back		Next >	Cancel

18. Check the Finalize the volume at the end of this restore checkbox.

Tasks (5) Backup Volume	
Restore Wizard	x
Finalization options	
Finalize the volume at the end of this	estare
The volume will not be usable by users	or applications until it is finalized. If the volume is not finalized then subsequent incrementals
from the same backup set can be resto (HSR).	red to the volume at a future time. This staging of the restore is called HeadStart Restore
E contra	MININGS (
Generale e PSR flir to use in et duri	(history)
Converte e 255 Units de maintaise	Production
F" Generate a JISP. (In to use in a future Generating a JISP. file makes it possible	Induction Browse E to finalize with the JHSR file alone, without access to any of the backup image files.
Generating a JHSR file makes it possible	Induction Browse,
Generating a USR file to use in a future Generating a USR file makes it possible	Production Provide and the advance of the backup image Res.
Generating a USR file makes it possible	to finalize with the .HSR file alone, without access to any of the backup image files.
Generating a JHSR file makes it possible	to finalize with the .HSR file alone, without access to any of the backup image files.

19. Select restoration options.

- > Set partition active If checked, the system boots from the active partition.
- > **Restore MBR** If checked, restores the master boot record (MBR).
  - ✓ **Restore MBR from the image file** Restores the MBR from the backup image file.
  - Restore original Windows MBR Restores the default MBR for the version of Windows you are restoring.
  - ✓ **Restore disk signature** Restores the original hard drive physical disk signature.
- Restore Disk Hidden Track Restores the first 63 sectors of a drive. Some boot loader applications require this for the system to boot.
- Use Hardware Independent Restore Launches the Hardware Independent Restore (HIR) utility when finalizing the volume. You can use this to restore to a different hardware configuration. For more information, see Using HIR in the StorageCraft Recovery Environment User Guide (http://www.storagecraft.com/support/book/storagecraft-recovery-environment-user-guide).

StorageCraft Recovery Environment	X
File Tasks View Tools Help	Izarda 🗇 Disk Map 🞑 Task Manager
Backup Volume	
Specify the restoration options	
MBR and Track Zero Options Set partition active Restore MBR Restore MBR from the image file C Restore original Windows MBR Restore disk signature Restore disk signature Restore Disk Hidden Track	
Hardware Independent Restore Options Use Hardware Independent Restore (v Advanced	when restoring to a different computer)
Com Ip A Time	<back next=""> Cancel</back>
Status ¥	
	CAP HUM SCR.

- 8 × File Tasks View Tools Help 🌮 Wizards 🕥 Disk Map 🛄 Task Manager Tasks 0 😗 Backup Volume 🚳 🐚 Restore Wizard x 10 Wizard Summary Please review the options you have selected before the wizard will finish 100 5 Source Image File: D: \temp\backups \C\_VOL.spf 3 . Destination Volume: C:\ (System Reserved) 2 2 10 Restore options: 0 [X] Restore MBR from the image file [ ] Restore Disk Signature [ ] Restore disk hidden track 0 8 [] Use Hardware Independent Restore (HIR) 1 Click finish to start restore operation Com Ip Ad < Back ſ Finish Cancel Time Status \*
- 20. Review the details of the restore operation, then click Finish.

21. The restore operation begins and Task Manager displays its progress.



22.Remove the CD from the target computer and reboot it to test the recovery of the backup image.

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