

Setting Up the Dell[™] DR Series System as a Backup to Disk Target on Symantec Backup Exec 2012 and 2014

Dell Engineering August 2014

Revisions

Date	Description
January 2014	Initial release
August 2014	Added screenshots where new functionality is introduced in 2014

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Executive summary

This paper provides information about how to set up the Dell DR Series system as a backup to disk target for Symantec Backup Exec 2012 and 2014. This paper is a quick reference guide and does not include all DR Series system deployment best practices.

For additional information, see the DR Series system documentation and other data management application best practices whitepapers for your specific DR Series system at:

http://www.dell.com/powervaultmanuals

Note: The DR Series system and Symantec Backup Exec build version and screenshots used for this paper may vary slightly, depending on the version of the DR Series system or Symantec Backup Exec software used.



1 Installing and configuring the DR Series system

- 1. Rack and cable the DR Series system, and power it on.
- Refer to the *Dell DR Series System Administrator Guide* sections "iDRAC Connection", "Logging in and Initializing the DR Series System", and "Accessing IDRAC6/Idrac7 Using RACADM" for information about using the iDRAC connection and initializing the system.
- 3. Log on to iDRAC using the default address **192.168.0.120**, or the IP that is assigned to the iDRAC interface. Use the user name and password: **root/calvin**

	ATED DELL REMOTE CONTROLLER 6 - ENTERI	RISE		Support About Logout
System Dell DR4000 root , Admin		Power Logs Alerts Console-Media Item Details System Inventory	vFlash Remote File Share	
System IDRAC Settings Batteries Fan	System Summary			
Intrusion	Server Health			
Power Supplies Removable Flash Media	Status Component		Virtual Console Preview	
Temperatures	Batteries		Options : Settings	
Voltages Power Monitoring	Pana Pana			6
	Manuation .		a sector interaction of the sector of the se	1
	Power Suppl			
	Removable I			
	Temperature	5.		
	Vutages		Rekesh	Launch
	Server Information		Quick Launch Tasks	
	Power State	ON	Power Of#/ OFF	
	Oystem Model	Dell DR4000	Power Cycle System (cold boot)	100
	System Revision	н	Launch Virtual Console	
	Dystem Host Name	DR4000-DKCV6S1 asglab.roundrock	View System Event Log	
	Operating System	CentOS	View IDRAC Log	
	Operating System Version 2.6.18-164.e.	sion release 5.4 (Final) Kernel 2.6.18-164.e.,	Update Firmware Reset IORAC	
	Service Tag DKCV6S1		RESERVICE.	
	Express Denice Code	29529104401		
	BIOG Version	1.9.0		
	Firmwate Version	1.80 (Build 17)		

4. Launch the virtual console.





5. After the virtual console is open, log on to the system as the user administrator with the password **StOr@ge!** (The "**0**" in the password is the **numeral zero**.)



6. Set the user-defined networking preferences.

Would you like to use DHCP (yes∕no) ?
Please enter an IP address:
Please enter a subnet mask:
Please enter a default gateway address:
Please enter a DNS Suffix (example: abc.com):
Please enter primary DNS server IP address:
Would you like to define a secondary DNS server (yes/no) ?
Please enter secondary DNS server IP address:

7. View the summary of preferences and confirm that all settings are correct.





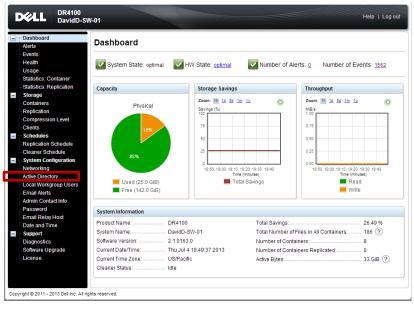
9. Log on to DR Series system administrator console, using the IP address you just provided for the DR Series system with the username **administrator** and password **St0r@ge!** (The "**0**" in the password is the **numeral zero**).

DELL DR4000 DR4000-DKC	/651	Help
Login		Reset Password
	Please enter your password:	
	Username: administrator	
	Password: St0r@gel	
	Log in	

10. Join the DR Series system to Active Directory.

Note: if you do not want to add the DR Series system to Active Directory, see the *DR Series System Owner's Manual* for guest logon instructions.

• Select Active Directory from the menu on the left side of the management interface.





• Enter your Active Directory credentials.

D¢A	DR4100 DavidD-	5W-01			Help Log out	
Alerts Event Healt Usag Statis	s h e tics: Container tics: Replication		ave not been configured. Click on	the 'Join' link to configure them.	nioL	
Conta Repli Com Clien	siners cation pression Level Is	Active Directory Configuration Domain Name (FQDN)* Username* Password*		* = fields are require	Enter Active D Credentia	2
Syste Netw	ner Schedule om Configuration orking e Directory	Org Unit	WindCA2\	Cancel Join Domain		
Emai Admi Pass Emai Date E Supp Diagr Softw Licen	I Relay Host and Time ort nostics are Upgrade se	NDavidD-SW-01.ocarina.localiv				
Copyright ©	2011 - 2013 Dell Inc. All	rights reserved.				

11. Create and mount the container by doing the following: Select **Containers** in the left menu of the dashboard, and then click **Create** at the top of the page.

Dashboard Alerts Events	Containers					Create Edit Dele	te Display	
Health	Number of Containers: 8					Conta	Container Path: /conta	
Usage Statistics: Container	Containers	Files	NFS	CIFS	RDA	Replication	Select	
tatistics: Replication	New_Container	0				Not Configured	0	
storage	NN	0	~	~		Not Configured	0	
Containers	RP	7		~		Not Configured	0	
Replication Compression Level	savauto	31		~		Not Configured	0	
Clients	WinCA	98		~		Not Configured	0	
Schedules	WindCA2	0		~		Not Configured	0	
Replication Schedule Cleaner Schedule	WindCA3	24		~		Not Configured	0	
System Configuration	Windnew	19		~		Not Configured	0	
Networking Active Directory Local Workgroup Users Email Alerts Admin Contact Info Password Email Relay Host Date and Time Support Diagnostics Software Upgrade License								



13. Enter a Container Name, select the **Enable CIFS/NFS** check box, and then click **Create a New Container**.

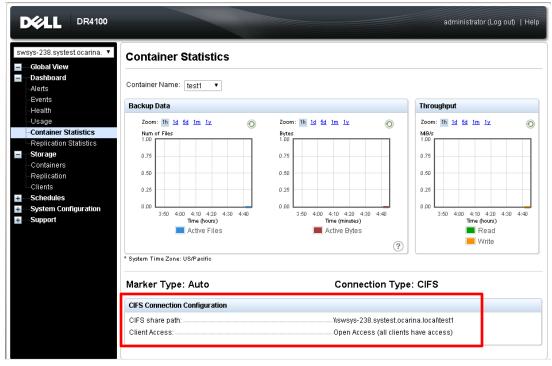
D¢L	DR4100 DavidD-SW-01	Help	Log out
Dashb Alerts Events Health Usage Statisti Statisti		* = required fields the container and _ characters. CServe ?	Btatistics
Storag Contai Replic: Compr - Clients Sched - Replic:	NFS NFS access path: 10.250.242.38:/containers Use NFS to backup UNIX or LINV Select NFS or CIFS File Enable NFS Client Access: Open Access (all clients have access)	CIFS CIFS share path: \\10.250.242.38\ Use CIFS to backup MS Windows clients. P Enable CIFS Client Access: Open Access (all clients have access)	
Cleane System Networ Active I Call V Email Admin Passw Email	Add client (IP or FQDN Hostname): Clients: Remove	Add clients (IP or FQDN Hostname) Add Clients:	
Date al Suppo Diagno Softwa Licens	Or w insecure ro Map root to: -select -select 11 - 2013 Dell Inc. All rights reserved.	Cancel Create a New Container	

14. Confirm that the container is added.

ishboard erts ents	Containers					Create Edit Dele	te Displa
alth	Message						
age atistics: Container atistics: Replication		dded container "New_ nabled container "New		with the fo	llowing ma	rker(s)	
ntainers	Number of Containers: 8					Conta	ainer Path: /
olication mpression Level	Containers	Files	NFS	CIFS	RDA	Replication	Select
ts	New_Container	0				Not Configured	0
dules	NN	0	~	~		Not Configured	0
cation Schedule	RP	7		~		Not Configured	0
er Schedule m Configuration	savauto	31		~		Not Configured	0
rking	WinCA	98		~		Not Configured	0
Directory	WindCA2	0		~		Not Configured	0
Vorkgroup Users	WindCA3	24		~		Not Configured	0
Alerts Contact Info						-	
word	Windnew	19		~		Not Configured	0



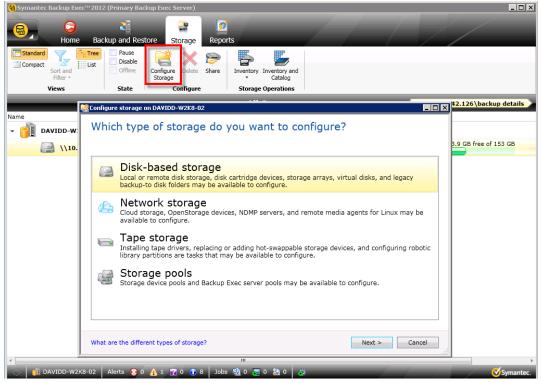
15. Select the container, and click **Display Statistics**. Note down the container share/export path, which you will use later to target the DR Series system.





2 Adding a DR container share as a disk storage device on Backup Exec 2012 or 2014

1. Open the Backup Exec console, and, in the **Storage** pane, click **Configure Storage Device**.





2. Select **Disk-based storage**, and click **Next**.

🔒 Symantec Backup Exe	ec™2012 (Primary Backup Exec Server)						
E Home	Backup and Restore Storage Reports						
Compact Sort and Filter *	Tree Pause Disable Configure Offline Configure Storage Deste Share Inventory Inventory Inventory and Catalog						
Views	State Configure Storage Operations						
	Configure storage on DAYIDD-W2K8-02	🗆 🗙 42.126\backup details					
Name							
- 👔 DAVIDD-W:	Which type of storage do you want to configure?						
(\\10.		3.9 GB free of 153 GB					
	Disk-based storage Local or remote disk storage, disk cartridge devices, storage arrays, virtual disks, and legacy backup-to disk folders may be available to configure.						
	Cloud storage, OpenStorage devices, NDMP servers, and remote media agents for Linux may be available to configure.						
	Tape storage Installing tape drivers, replacing or adding hot-swappable storage devices, and configuring robotic library partitions are tasks that may be available to configure.						
	Storage pools Storage device pools and Backup Exec server pools may be available to configure.						
	What are the different types of storage? Cancel						
A DAVIDD-W2	₩ K8-02 Alerts 😥 0 🛕 1 🕎 0 🚯 8 Jobs 🎭 0 🐺 0 🌺 0 🎉	,					
DAVIDD-W2		Symantec.					

3. Select **Disk Storage**, and click **Next**.

🔒 Symantec Backup Exe	c™2012 (Primary Backup Exec Server)	
Home	Backup and Restore Storage Reports	
Compact Sort and Filter *	List Disable Configure Delete Share State Configure Storage Operations	
Tiens		
	Configure storage on DAVIDD-W2K8-02	× 42.126\backup details
Name	Which type of disk-based storage do you want to configure?	
(\10.		3.9 GB free of 153 GB
	Disk storage Storage on a volume, a hot-swappable device, a USB device, or a FireWire device. Import a legacy backup-to-disk folder Storage on a folder on a disk that was created with a previous version of Backup Exec. You can import an existing backup-to-disk folder.	
	 Disk cartridge device There are no unconfigured disk cartridge devices on the system Storage on a device that uses disk cartridge media, such as an RDX device, or devices that appear in Windows as removable storage, such as USB thumb drives. 	
	What are the different types of disk storage? < Back	
<	IN	
DAVIDD-W2K	8-02 Alerts 🕱 0 🛕 1 🕎 0 🕦 8 Jobs 🎭 0 👼 0 🌺 0 🐉	Symantec.

12 Setting Up the Dell™ DR Series System as a Backup to Disk Target on Symantec Backup Exec 2012 and 2014 | January 2014 4. Enter a name for the DR Series system disk device, enter a description, and then click **Next**.

🔒 Symantec Backup Exec	™2012 (Primary Backup Exec Server)	_ 🗆 X
G Home	Backup and Restore Storage Reports	
Standard	Tree Pause Carlo C	
Compact Sort and	rier Disable have been based by the based of	×
Views	What name and description do you want to use for the disk	
	storage device?	.126\backup details
Name		
- 📋 DAVIDD-W2K	Name: Disk storage 0001	
(\10.2		GB free of 153 GB
	< <u>Back</u> <u>N</u> ext > Cancel	
		_
*	"	
DAVIDD-W2K		Symantec.

5. Enter the DR container's CIFS share path, and click **Next**.

🝓 Symantec Backup Exec'	1 ¹¹⁴ 2012 (Primary Backup Exec Server)	
E Fome	Backup and Restore Storage Reports	
	Tree Pause Disable Image: Configure storage on DAVIDD-W2K8-02	হ
Filter *		-
Views	Where do you want to create the disk storage device?	
		.126\backup details
Name		
▼ 📑 DAVIDD-W2K	C: (64.3 GB Free) (System drive) Only one disk storage device can be created on a volume.	
\\10.25		GB free of 153 GB
	Enter a UNC path to the network share. For example: \\server\share	
	< Back Next > Cancel	
A DAVIDD-W2K8	"" 3-02 Alerts 😵 0 🛕 1 😨 0 🚯 3 Jobs 🌺 0 🜉 0 🌺 0 🔅	Symantec.
DAVIDD-W2K8		Symantec.

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6. For Backup Exec 2014, specify how many concurrent write operations are allowed for this disk storage device, and then click **Next**.

8	Symantec Backup Exec™ 20	14	_ Ø X
Compact	b Montor Storage Reports Storage Configure storage on PRAVINK-W Configure storage on PRAVINK-W	/2K12R2 - • ×	
Views State Views State Name * Same *	How many write operations do you want to let this disk storage device? Concurrent write operations	run at the same time on	Active and scheduled jobs Average 8 T8 8 T8 8 T8 8 T8 8 T8 7 T1 Strange operation 7 T3 T6 9 T8 2 Deckups 2 Cackups 2 Cackups 2 Cackups 2 Cackups
KI T PRAVOK WIX1202 Alets \$ 00 & 7 7 T RAVOK WIX1202 Alets \$ 00 & 7 7	This setting determines how mary jobs can write date at the same time device a handle write depending on your handlene and environment Symaetec recommends that you set it low enough to avoid overloading your jobs in a timely mannee.	t, so you may need to adjust this setting later.	Symantec 100 To To Au Brazona

NOTE: The Dell DR Series systems support the following number of concurrent writes to CIFS Storage:

- DR4000 32
- DR4100 32
- DR6000 64
- DR2000v 8

To change this number later, go to the **Storage** tab, select the required Storage device, and see the details. In the **Properties** page, select the option to update the concurrent operations.



6. In the Storage Configuration Summary window, click Finish.

🔒 Symantec Backup Exec [®]	™2012 (Primary Backup Exec Server)		
	A 💽 🔄 🙍		
Home	Backup and Restore Storage Reports		
	Tree Pause Alter Pause P		
	Configure storage on DAVIDD-W2K8-02		
Views	Storage configuration summary		
	Storage configuration summary		DD-W2K8-02 details
Name			
DAVIDD-W2K	Name and description for the disk storage device Name: \\10.250.242.126\backup		*
	Description:		
	Disk storage device location		*
	Path: \\10.250.242.126\backup		
		< Back Finish	Cancel
*			•
🔅 👔 DAVIDD-W2K8	-02 🛛 Alerts 😣 0 🛕 1 🏆 0 🚯 8 🗍 Jobs 🥸 0 🜉 0 🏂 0	ð 🗸	Symantec.

For Backup Exec 2014, the summary page will have additional details as shown in the following example.

Compact Sort and Filter * Views State	👔 🔹 Configure stora	ge on PRAVINK-W2K12R2	- 0 X		
	Storage configuration summary			_	asffg details
asffg and	Storage category Disk-based storage		8	TB TB	Active and scheduled jobs Ave
exch_cits grt_backup 258	Storage type Disk storage		8	18	R 2 backups
est_test3 est of 7% est-exch-238 estearpe	Name and description for the disk storage device Name: Description:	dsk_text1 prvn		8 TB TB	5 V.
test218	Disk storage device location Path:	\\test.systest.ocarina.loca/\test1	R	GB	1 beckup
	Concurrent Write Operations Concurrent operations:	4	*		
		< Back Finish	Cancel		



7. Verify that the Disk Storage Device is attached to the server.

🔒 Syma	ntec Backup Exec™ 201	12 (Primary Back	cup Exec Server)					_ 🗆	×
8		ickup and Rest	ore Storage	2 Reports					
Com		Pause Disable Offline		hare Inventory	Inventory and Catalog				
	Views	State	Configure	Storag	Operations				
				Ali	Storage			DAVIDD-W2K8-02 details	
Name			State		Active Alerts	Storage Trending	Capacity		
- 📄	DAVIDD-W2K8-02		Online		Storage Information	1			
	\\10.250.24	2.126\backup	Online	2	Storage Information	History of used disk	space i	93.9 GB free of 153 GB	
•									+
- S.S.	DAVIDD-W2K8-02	Alerts 😥 0	🛕 1 📝 0 🕤 9	Jobs 🌺 Ö 👺	0 🌌 0 🛛 🕉			⊘ Symante	с.



3 Creating a new backup job with the DR Series system as the target

1. If the required source client server is not added in Backup Exec, it can be added by selecting the **Backup and Restore** pane and then clicking the **Add** button.

😣 Symantec Backup Exec™ 2012 (Central Admi	inistration Server)					_ 6 ×
Backup and Resto	ore Storage Reports	_			1-1-	Administration Server
Compact Sort and Filter	up One-Time Edit Backup Ro Backup - Backups Calendar	store Search Convert	dd VMware Remove	Update		
Views	Backups	Restores Virtualization	Servers	Jobs		
		S	rvers		Ser	ver cwf-exch-01.systest.ocarin
	kotive Alerts Status		Days of Backup Jobs	Last Backup	Next Backup	
wf-exch-01.systest.ocarina.local	Backing up	02:39:49 We	Th Fr Sa Su Mo Tu		8/12/2014 2:58:28 AM	
wf-exch-04.systest.ocarina.local	45 Backup failed	We	Th Fr Sa Su Mo Tu	8/11/2014 11:00:04 PM	8/8/2014 1:00:00 AM	
OST-W2K3-04	336 Backup failed		Th Fr Sa Su Mo Tu	8/2/2014 11:00:04 PM	6/7/2014 11:00:00 PM	
) OST-W2K3-04 Alerts 😵 444 🔏	🔥 39 😨 0 😨 5 Jobs 🌺 14 Ider/ 😼 Symantec Backup Ex	周1239 🖗				Symanter

2. Follow the wizard by selecting the required type of server and clicking **Continue**.



and backup and	Restore pane, click Backup > Back Up to Disk.	
🔒 Symantec Backup Exec™ 2012 (Prin	mary Backup Exec Server)	
Home Backup a	and Restore Storage Reports	
	Image: Construction of the second	
Views	Back Up to Disk Jobs Job History	
Servers Name A	Back Up to Disk and then Convert to Virtual Machine 🔷 🤤 Start Time	Schedule
1003	Back Up to Disk and Simultaneously Convert to Virtual Machine 🛛 👄 🥁 🕂 子	
Job History	Create a New Backup Using the Settings from an Existing Backup	
Active Alerts	No jobs exist.	

3. In th R cl

👔 DAVIDD-W2K8-02 🛛 Alerts 🔕 0 🛕 1 🍞 0 🚯 9 🔄 Jobs 🎕 0 👿 0 🌺 0 🎳



4. In the left pane of the Backup Properties dialog box where you select a backup source, click **Edit**, and then select the backup data set.

😣 Symantec Backup Exec™ 2	2012 (Primary Backup Exec Server)	
Home	Backup and Restore Storage Reports	
Compact Compact Filter • Views	Backup Properties DavidD-W2K8-02.testad.ocarina.local Backup 00002	w Job History
Servers Nam	Fully selected C: Microsoft SQL Server Instances System State System State Storage: Any disk storage Keep for: 2 Weeks The backup will ner until the headures Storage: Any disk storage Keep for: 11:00 PM, then every 1 day The backup will ner until the headures The backup will ner until the headures Storage: Any disk storage Keep for: 1 Week Edit Edit	b History
🔅 👔 DAVIDD-W2K8-0)2 Alerts 😵 0 🛕 1 😰 0 🚯 9 Jobs থঠන 0 🗮 0 ঠ 0 🤃	Symantec.

For Backup Exec 2014, backup data sets can be selected from multiple servers within the same job. To add an additional server, click the "+" button as shown in the following example.

6	9	De deux Calastíana	
	'0	Backup Selections	
Image: Standard Soft and Comparing Compared Soft and		Backup Selections	ecovery: OFF © x Byte Count Start Time 8/15/2014 11:00: 8/8/2014 11:00:
	Help	0	K Cancel
·			•
PRAVINK-W2K12R2	Alerts 😥 84 🛕 10 🍞 0 🕡 10 🛛 Jobs 🕸	6 🜉 0 🍇 0 🙀	Symantec.
🕂 占 🛛 🚦			▲ 🔀 🕲 👍 11:28 PM 8/10/2014



Follow the Backup Exec 2014 Backup Selection wizard and add the server with the selected backup data. The Source Dataset will appear as displayed in the following example. Click **OK** to continue.

0						_ 0 ×
8	8	!	Backup Selections	_ _ ×		_ 0 ×
Standard Standard Sort and Compact Filter Compact Filter Uiews Sort and List List List List Sort and Operation Sort and Sort and Sort and Uiews Name Jobs Name Jobs Backup Sets Active Alerts Properties		<pre> provink-test1 provink-w2k12r2.systest.ocarina. cvd-exch-04.systest.ocarina.local wd-exch-04.systest.ocarina.local wd-exch-04.systest.ocarina.local wd-exch-04.systest.ocarina.local wd-exch-04.systest.ocarina.local wd-exch-04.systest.ocarina.local wd-exch-04.sys</pre>	pravink-test1 Microsoft Windows computers ♥ ● Fore server ♥ ● Volumes - System critical ♥ ● Volumes - Non system critical ♥ ● Volumes - Non system critical ♥ ● Volumes - Non system critical ♥ ● Placesoft Information Store	Simplified Disaster Recovery: 1 of 2 3		Start Time 8/15/2014 11:00 8/8/2014 11:00:
	Alert	is 💫 84 🛕 10 🍞 0 👔 10 🛛 Jobs 🕸 6				Symantec.
🗄 🔼 🚦					- 😼 🖫	8/10/2014

The final Backup Exec 2014 backup selection with multiple servers appears as displayed in the following example.

8	Backup Det	finition Properties 📃 🗖 🗙	_ 0 X
Backup and Restore Standard Compact Sort and	Name: pravink-test1 Description:		st Job View Job
Filter + Backup C Views Backups	⊙ 💦 2 Servers	ackup	in Activity History Resource Credentials
Servers	Backup order	😇 Full 💿	Ciconnas
Jobs Name A	 m pravink-w2k12r2.systest.ocarina.loca m cwf-exch-04.systest.ocarina.local 	Job name: pravink-test1-Full	Byte Count Start Time
Job History		Schedule: Every 1 week on (Friday) at 11:00 PM	8/15/2014 11:00
Duplicate		Storage: Any disk storage	
Sackup Sets Restore		Keep for: 2 Weeks	writable idle
Active Alerts		Job name: pravink-test1-Incremental	e available 8/8/2014 11:00:
Credentials		Schedule: At 11:00 PM, then every 1 day actual more used the every 1 day actual mine row used the first full facture is completed. Storage: Any disk storage Keep for: 1 Week	
	Test/Edit Credentials Edit	Add Stage 🔻 Edit	
	Неір	OK Cancel	
	m		•
🔅 🏥 PRAVINK-W2K12R2 🛛 Alerts 😣 84 🛕 1	0 😨 0 🚯 10 Jobs 🍇 6 🜉 0 🍇 0 🎳		⊘ Symantec.
🗧 🛃 🛛 📋 🤤			 11:35 PM 8/10/2014

20 Setting Up the Dell™ DR Series System as a Backup to Disk Target on Symantec Backup Exec 2012 and 2014 | January 2014 5. In the right pane of the Backup Properties dialog box, click **Edit** to define your backup strategy.

Symantec Backup Exec	2012 (Primary Backup Exec Server)				- 11 -
B G Home	Backup and Restore Storage Report	ts			
Compact	Backup Properties Name: DavidD-W2K8-02.testad.ocarina.k	ocal Backup 00002		_ 🗆 🗙 ew Job Hisb	yıc
Views Servers Jobs Narr Dob History Active Alerts	DavidD-W2K8-02 Fully selected C: Microsoft SQL Server Instances System State	© Fi	Backup ull chedule: Every 1 week on (Friday) 11:00 PM torage: Any disk storage teep for: 2 Weeks toremental chedule: At 11:00 PM, then every day This backup will not run until the first full backup is completed. torage: Any disk storage teep for: 1 Week Add Stage Edit	(*) 1 Ne	Schedule
	Help		ОК	Cancel	
👔 DAVIDD-W2K8-0	02 🛛 Alerts 🔕 0 🛕 1 🍞 0 👣 9 🗍 Jobs	🎕 o 🜉 o 🏖 o	*		⊘ Symantec.

6. Click **Schedule** and define the backup mode by selecting schedule options.

😣 Syma	antec Backup Exec™201	2 (Primary Backup	Exec Server)			-		_ 🗆 🗙
8		20	-	?				
	ackup Options	127						×
	Schedule Storage Network Notification Test Run Verify Advanced Open File Security Pre/Post Commands Files and Folders Exclusions	Schedule:	Submit job o	n no recurring schedule on hold en every 1 day			· ·	
	Help						OK Cancel	
0	📋 DAVIDD-W2K8-02	Alerts 😥 0 🛕	1 🛃 0 🕤 9) Jobs 🥸 0 🛃 0	🔄 o 🎼	_	∕∕_ 爻	Symantec.

21 Setting Up the Dell[™] DR Series System as a Backup to Disk Target on Symantec Backup Exec 2012 and 2014 | January 2014

8	0				- 0 ×
Home Back	Carage Storage Network Notification Test Run Verify Delayed Catalog	Backup Options Add a <u>Backup Job</u> Backup Exec uses the default backup job settings to create new backup jobs. You can chan Solution Dob template name: Full		Delete Selected Resource Credentials	
Jobs Name Job History Backup Sets Active Alerts	Advanced Open File Advanced Disk-based Backup Security Pre/Post Commands Files and Folders Microsoft Exchange Microsoft SQL Exclusions	Type a name that describes this job template. The name is used to create the default job name: pravink-test1-Full Schedule: Regurrence: Every 1 week on (Friday) at 11:00 PM Run now with no recurring schedule Create without a schedule Submit job on hold	те. Е	Byte Count	Start Time 8/15/2014 11:00 8/8/2014 11:00:
Credentials		Lob template name: Incremental Type a name that describes this job template. The name is used to create the default job name Job name: pravink-test1-Incremental Schedule: Recurrence: At 11:00 PM, then every 1 day O Create without a schedule	Te.		
Th PRAVINK-W2K12R2	Help		Cancel	• 😼 🕯	Symantec. 11:37 PM 8/10/2014

For Backup Exec 2014, you can select backup options as shown in the following example.

7. In the left menu in the Backup Options dialog box, click **Storage** and then select the Disk Storage Device pointing to the DR container share.

🔒 Sym	antec Backup Exec™201	2 (Primary Backup	Exec Server)					_ 0
8		20		5				
B	ackup Options							×
	Schedule Storage Network Notification Test Run Verify Advanced Open File Security Pre/Post Commands Files and Folders	Priority: Mediu Priority: Mediu Storage: Keep for: Compression: Encryption type	m ▼	42.126\backup (93		1:		
	Help						0	K Cancel
0	👔 DAVIDD-W2K8-02	Alerts 👩 0 👍	1 😰 0 🕤 9	Jobs 🌺 0 🗾 0	20 🕉			

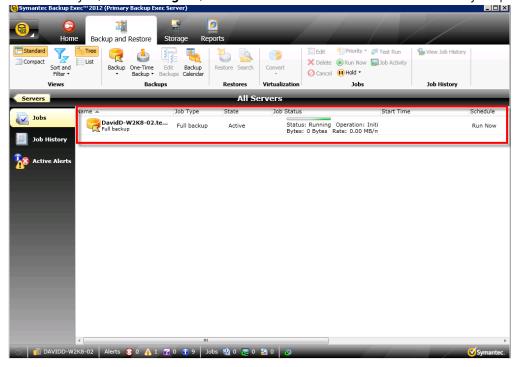
8. When you have completed definition of backup options, click **OK**.



9. Enter a job Name, and click OK.

🔒 Symantec Backup Exec™2	2012 (Primary Backup Exec Server)	
Generation Contraction Contrac	Backup and Restore Storage Reports	
	😣 Backup Properties	ew Job History
Compact Z L		
Filter •	Name: DavidD-W2K8-02.testad.ocarina.local Backup 00002	
Views		b History
Servers	📲 DavidD-W2K8-02 💿 🤤 Rackup	
Jobs Nam	Partially selected	Schedule
	C: Schedule: Run Now	
Job History	Not selected Microsoft SQL Server Instances Storage: \\10.250.242.126\backup	
1	System State	
Active Alerts	Keep for: 1 Hour	
	Add Stage 🔻 Edit	
	Test/Edit Credentials Edit	
	Help OK Cancel	
<u>,</u>	1	
DAVIDD-W2K8-02	12 Alerts 👧 0 🛕 1 😨 0 🚯 9 Jobs 🅸 0 🐺 0 🌺 0 😹	Symantec.
AVIDD-W2K8-02		Symantec.

10. To run the job, select an Agent, and click OK. The Jobs window shows the job queue status.





For Backup Exec 2014, select the required server from the drop down menu, select the job recently created, and then click **Run Now**.

8		Symar	tec Backup Exec™ 2014		_ 0 ×
Generation Home	Backup and Restore Job Monitor Storage	Reports			
Compact Sort and Filter •	List Restore backup Backup One-Time Backup Calendar Backup Calendar	sets Search Create Disaste job Recovery Disk			bb View Job Delete Selected Resource
Views	Backups	Restores	Conversions	Jobs	Credentials
4 Servers		pravink-w2k1	2r2.systest.ocarina.loc	al •	
laha	Name 🔺	Charage Charage	<u> 205 Type</u>	Job Status	Byte Count Start Time
Jobs		pravink-w2k 🖷 Any	disk storage Backup	Scheduled: 🕒 Scheduled pravink-savi	8/15/2014 11:00
Job History	Duplicate Backup Sets prvn	cwf-exch-04 📾 test	218 Duplicate	Completed 🛛 🕸 Successful	
属 Backup Sets	rest from target dr Restore	pravink-w2k	Restore	Completed & Successful Scheduled: Ready; No writab	lo idio
🔀 Active Alerts	Full backup, Incremental backup	pravink-w2k 🔮 ost	exch-238 Backup	ost-exch-bk devices are availa	
	Catalog	em exer e	packap catalog		
📜 Credentials	Full backup, Incremental backup	pravink-w2k	Backup	.	
Properties	Pravink-test1-Full	pravink-w2k 📾 test		Active Sctive: Running -	Backup 0 Bytes 00:00:20 0.00 MB/min 8/10/2014 11:43
	pravink-test1-Incremental Incremental backup	pravink-w2k 📾 test	-dsk1 Incremental backup	Scheduled 🕒 Scheduled	8/15/2014 11:00
	L				
	•	m			•
🔅 👘 PRAVINK-W2K1	12R2 🛛 Alerts 😣 84 🛕 10 😨 0 🚯 10 🗍 Jobs	🎭 7 👿 1 🏖 0 🐉			Symantec.
					5 05 0 11:43 PM
					▲ 10/2014

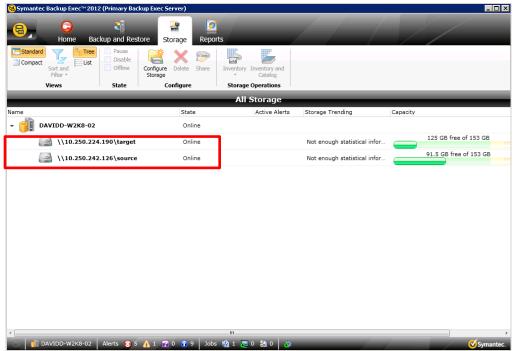


4 Setting up DR Series system replication and restore from the replication target

NOTE: In the instructions and examples in this section, assume DR1 is the replication source DR Series systme, and DR2 is the replication target DR Series system; 'source' is the replication source container, and 'target' is the replication target container.

4.1 Create a replication session

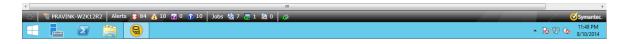
- 1. Do the following:
 - a. Create a CIFS container 'source' on DR1.
 - b. Create a second CIFS container 'target' on DR2.
 - c. On the Backup Exec media server, configure a corresponding Disk Storage Device for each of the containers.





For Backup Exec 2014, after adding the target DR CIFS container, check that the device was added.

8				2	Symantec Backi	up Exec™ 2014			- 0	X
8,	G Home Bac		Monitor Storage	2 Reports						
Compa		Pause Disable Offline Storage	Troubleshoot Delete	Inventory Cataloo	y and now					
	Views	-	Configure	Storage Operati		perations				
_	_	_	_		All Sto	orage		_	asffg de	etails 🜩
Name 🔺			State	Storage Type	Active Alerts	Storage Trending	Capacity		Active and scheduled jobs	Average
2	asffg aws		Online	Disk storage		Not enough statistical inf		1.54 TB used of 15.8 TB		
	exch_cifs		Offline	Disk storage		Not enough statistical inf		599 GB used of 15.8 TB		
	grt_backup 238		Online	Disk storage	_ <mark>0</mark> 3	Not enough statistical inf		1.54 TB used of 15.8 TB	2 backups	
2	ost_test3 ost of 76		Offline; Unable to au.	. OpenStorage				47.3 GB used of 0.978 TB		
	ost-exch-238 exchange		Offline; Unable to au.	. OpenStorage	2 ² 2			356 GB used of 15.9 TB	😪 2 backups	
X	test218		Offline	Disk storage	□ <mark>⊗</mark> 4	Current storage is suffici		391 GB used of 902 GB	😪 1 backup	
	test-dsk1		Active	Disk storage	Storage Informati	Not enough statistical inf		33.5 GB used of 902 GB	pravink-test1-Full 00:05:12	188.00
	test-dsk2		Online	Disk storage		History of used disk spac		508 GB used of 902 GB		



- 2. From DR1 GUI management interface, click **Replication** and then click **Create**.
 - a. Set the 'source' container as the replication source.
 - b. Set the DR2 'target' container as the replication target.
 - c. Start the replication session.

ľ	CEL DR4100					root (Log	out) Help
_	Global View	Replication		Create Edit Delete	Stop Start Bar	ndwidth Displa	ay Statistics
	Dashboard Alerts	Number of Source Replicatio	ns: 0				
	Events	Local Container Name	Role	Remote Container Name	Peer State	Bandwidth	Select
	Health Usage	target		10.250.242.126 source	Online	Default	0
	Container Statistics Replication Statistics	·					
-	Storage						
	Containers						
	Replication						
	Clients						
-	Schedules						
	Replication Schedule						
	Cleaner Schedule						
-	System Configuration						
	Networking						
	Active Directory Local Workgroup Users						
	Email Alerts						
	Admin Contact Info						
	Password						
	Email Relay Host						
	Date and Time						
+	Support						
Сору	right © 2011 - 2013 Dell Inc. All rig	hts reserved.					



3. Schedule and run backup jobs to the source Disk Storage Device.

🔒 Symai	ntec Backup Ex	kec™2012	: (Primary	/ Backup Ex	kec Servei	·)										
8,	Home	e Bac	2 kup and	Restore	Storag	e R	eports			/		-		/		
Comp		Tree List	Backup	One-Time Backup *	Edit Backups (Backup Calendar	Restore	e Search	Convert	Ru		Delete	View Job History	Duplicate	Verify	
	Views			Back	ups		Res	stores	Virtualizati	ion		Job	History			
Serv	ers		_		Serv	ver Da	vidD-\	W2K8-	02.testa	d.ocar	ina.loca	al 🚽	_	_		
	obs	Name							Storage		Job Type	Job S	tatus	Perce	ent Complete	Start Time
	ob History		avidD-W2	2K8-02.te	stad.ocar	ina.loca	al Backuj	p 00006	\ \10.250. 6\source		Backup	ی 🎱	Successful		100%	12/2/2013 12:34:55 AM
• 🖾	ackup Sets															
<mark>%</mark> ^	Active Alerts															
<u>}</u> c	Credentials															
P	Properties															
		<														•
0) DAVIDD-W2		Alerts (3 5 🛕 1		9	Jobs 🥸	0 😡 0	20 🕉	_	_	-/	1			Symantec.

For Backup Exec 2014 you can view the Job History screen.

0		Sym	nantec Backup Exec ⁺	* 2014			_ 0 ×
Home Backup and		Reports					
Compact Compact Filter Views	up One-Time Backup Restore Search	Recovery Disk Virt	vert to tual • rersions		Duplicate Verify	Edit Backup Delete Selected Resource Credentials	
Exervers		pravink-w	v2k12r2.systest.oca	rina.local 👻	_	_	_
Jobs Name	Server Storage	Job Type Jo	b Status Perce	nt Complete Start Time	End Time 🔻	Elapsed Time Byte Count	Job Rate Error Cor ^
Job History	pravink-w2k12 test-dsk1	Backup 🦉	2 Successful	100% 8/11/2014 4:14:20 AM	8/11/2014 4:14:36 AM	00:00:16 99.9 KB	2.00 MB/min
Backup Sets	est1-Full pravink-w2k12 test-dsk1	Backup	Canceled	N/A 8/11/2014 12:19:58 AM	8/11/2014 4:12:42 AM	03:52:44 20.7 GB	232.00 MB/min
Active Alerts	est1-Full pravink-w2k12 test-dsk1	Backup	Canceled	N/A 8/10/2014 11:43:25 PM	8/11/2014 12:16:30 AM	00:33:05 5.86 GB	183.00 MB/min
Credentials	0005 of pr cwf-exch-04.sy grt_backup	Catalog 🍳	Successful	100% 8/10/2014 4:01:16 AM	8/10/2014 4:57:34 AM	00:56:18 335 GB	6,165.00 MB/min
Properties		Backup 🥰	Successful	100% 8/9/2014 11:00:04 PM	8/9/2014 11:00:20 PM	00:00:16 308 Bytes	0.00 MB/min
pravink-s	avings-Full pravink-w2k12 grt_backup	Backup 🦉	Successful	100% 8/8/2014 11:00:02 PM	8/8/2014 11:07:22 PM	00:07:20 23.4 GB	3,524.00 MB/min
Catalog 0	0003 of pr cwf-exch-04.sy grt_backup	Catalog 🦉	Eailed	0% 8/8/2014 2:51:55 AM	8/8/2014 2:51:59 AM	00:00:04 0 Bytes	EOOC
pravink-s	avings-Full pravink-w2k12 grt_backup	Backup 🦉	2 Successful	100% 7/25/2014 11:00:00 PM	8/8/2014 12:17:46 AM	13:01:17:46 23.4 GB	856.00 MB/min
pravink-e	exch-Incre cwf-exch-04.sy	Backup 🔮	Canceled	N/A 7/21/2014 11:00:04 PM	8/7/2014 11:18:41 PM	17:00:18:37 0 Bytes	
<		ш					>
RAVINK-W2K12R2 Alerts	😣 88 🛕 10 🍞 0 🕡 9 🛛 Jobs 🎕 8	20 🍇 0 📸					Symantec.
	8						▲ 🔀 🖓 🏚 4:15 AM 8/11/2014



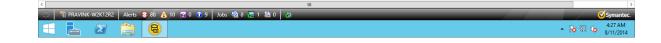
4.2 Restoring from a replication target

1. Under **Storage > Storage Operations**, right-click the replication target device, and then select **Inventory and Catalog**.

🗟 Symantec Backup Exec™2012 (Primary Back	up Exec Server)				
Home Backup and Resto	pre Storage Repor				
Compact Sort and Filter *	Configure Delete Share	Inventory Inventory and Catalog			
Views State	Configure	Storage Operations			
	_	All Storage	_	\\10	.250.224.190\target details
Name	State	Active Alerts	Storage Trending	Capacit	y
- DAVIDD-W2K8-02	Online				
(\10.250.224.190\target	Online				125 GB free of 153 GB
(\\10.250.242.126\source	Online		ause		91.5 GB free of 153 GB
(\10.250.242.126\source	Online		isable ffline		
		0	mine		
		В	ackup Exec Diagnostics		
			elete	Delete	
			hare	Delete	
			wentory and Catalog		
		Ir	iventory now	•	
		D	etails		
DAVIDD-W2K8-02 Alerts 👧 5	🔥 1 🎅 0 🚯 9 Jobs	- 🕸 1 🔜 0 🏖 0 🎄			Symantec.

For Backup Exec 2014, the screen appears as shown in the following example.

8			Symantec Backu	ир Ехес™ 2014		_ 0 ×
G Home Backu	up and Restore Job Monitor Storage	Reports				
Compact Sort and Filter •	Pause Disable Offline Configure Storage	iventory Totatalo	ry and g now			
Views	State Configure	Storag Operat	ions Media O	perations		
		_	All Sto	rage		test-dsk2 details 🜩
Name 🛎	State	Storage Type	Active Alerts	Storage Trending	Capacity	Active and scheduled jobs Average j
asffg aws	Offline	Disk storage	😣 Media Error	Not enough statistical infor	1.54 TB used of 15.8 TB	
exch_cifs	Offline	Disk storage	□ ⁸ 5	Not enough statistical infor	599 GB used of 15.8 TB	
grt_backup	Offline	Disk storage	▲ ⁰ 4	Not enough statistical infor	1.54 TB used of 15.8 TB	😪 2 backups 11 1 storage operation
ost_test3 ost of 76	Offline; Unable to authe	OpenStorage			47.3 GB used of 0.978 TB	
ost-exch-238 exchange	Offline; Unable to authe	OpenStorage	□ <mark>8</mark> 2 △ ○ ²		356 GB used of 15.9 TB	😪 2 backups
test218	Offline	Disk storage	□ <mark>8</mark> 4 △ ○ 4	Current storage is sufficient	391 GB used of 902 GB	😪 1 backup
est-dsk1	Online	Disk storage		Not enough statistical infor	56 GB used of 902 GB	😪 2 backups
test-dsk2	Active	Disk storage		History of used disk space is	532 GB used of 902 GB	Inventory Device 00004



28 Setting Up the Dell™ DR Series System as a Backup to Disk Target on Symantec Backup Exec 2012 and 2014 | January 2014 2. After the Inventory and Catalog job is done, check the Backup Sets shown in target storage device.

🗟 Symantec Backup E	xec™2012 (Primary	Backup Exec Server)					
B G Hom	e Backup and F	ů	Reports				
Compact Sort and Filter *	Tree Pause Disable	: 🔚 📂	Inventory Inventory a	and Delete	Retain Catalog Duplicate Ve	erify	
Views	State	Configure	Storage Operation	IS	Backup Sets		
All Storage			\10.250.224.1	.90\targe	t detail <i>s</i>		_
Jobs			Method Stora Expir		Reta Retain		
Jobs	DAVIDD 🔛 C: DAVIDD 🔛 C:		apshot 🔤 Dis 12/1 apshot 🔤 Dis 12/1				
Job History	DAVIDD 📓 C:	11/29/20 🥥 58		.5/ 4.59			
Backup Sets							
Active Alerts							
Properties							
DAVIDD-W	2K8-02 Alerts 😡	5 🔥 1 🛜 0 🚯 9) Jobs 🥸 1 🕎 0	20 0			Symantec.
							- Symancee.

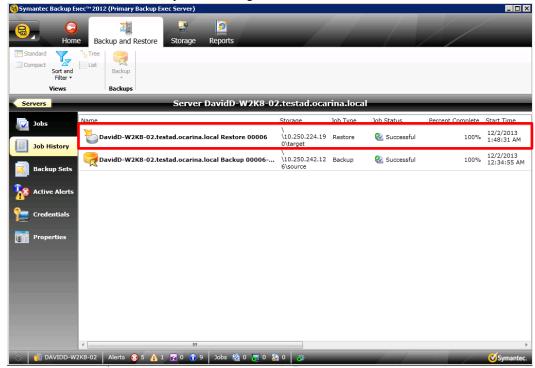
3. Disable source storage under **Storage** > **State**, by right-clicking the source storage device and selecting **Disable**.

Image: Standard S	🗟 Symantec Backup Exec™ 2012 (Primary Bac	kup Exec Server)		
Competing State Offline State State Configure Configure State Configure State Configure Configure <th></th> <th></th> <th>s</th> <th></th>			s	
All Storage Name State Active Alerts Storage Trending Capacity 	Compact Compac	Configure Delete Share Storage	Inventory Inventory and Catalog	
Name State Active Alerts Storage Trending Capacity DAVIDD-W2K8-02 Online Intervention 125 GB free of 153 GB Image: https://www.image.com/image	Views	Configure		\\10.250.242.126\source details
Image: With the second seco	Name	State	_	
Image: With a statistical information of the	- 👔 DAVIDD-W2K8-02	Online		
V(10.250.242.126\source Online Not enough_statistical_infor	(\\10.250.224.190\target	Online	Not enough statistical infor	125 GB free of 153 GB
Disable Offline Backup Exec Diagnostics Delete Delete Share Inventory and Catalog Inventory now Details	(\10.250.242.126\source)	Online	Not enough statistical infor	91.5 GB free of 153 GB
	4		Disable Offline Backup Exec Diagnostics Delete Delete Share Inventory and Catalog Inventory now ▶	

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4. Schedule and run a restore job from target device.





Setting up the DR Series system cleaner

Performing scheduled disk space reclamation operations are recommended as a method for recovering disk space from system containers in which files were deleted as a result of deduplication.

The system cleaner runs during idle time. If your workflow does not have a sufficient amount of idle time on a daily basis, then you should consider scheduling the cleaner to force it to run during a scheduled time.

If necessary, you can perform the procedure shown in the following example screenshot to force the cleaner to run. After all of the backup jobs are set up, the DR Series system cleaner can be scheduled. The DR Series system cleaner should run at least six hours per week when backups are not taking place, and generally after a backup job has completed.

Dashboard Alerts	Cleaner Schedule Edit Schedule System time zone: US/Pacific, Fri Jul 5 05:00:41 2013 Schedule Cleaner Note: When no schedule is set, the cleaner will run as needed. Edit Schedule		
– Events – Health – Usage – Statistics: Container			
Statistics: Replication	Day	Start Time	Stop Time
Storage Containers	Sun		-
Replication	Mon		-
Compression Level	Tue		-
Clients	Wed		-
Schedules	Thu		-
Replication Schedule	Fri		-
-Cleaner Schedule	Sat	-	-
System Configuration Networking Active Directory Local Workgroup Users Email Alerts Admin Contact Info Password Email Relay Host Date and Time Support Diagnostics Software Upgrade License			

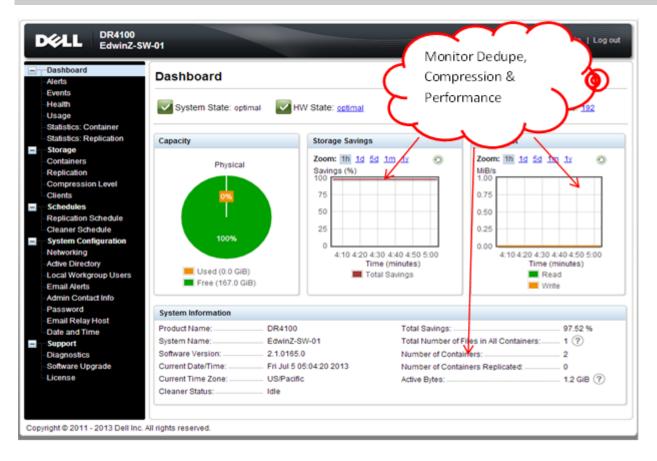


Monitoring deduplication, compression, and performance

6

After backup jobs have run, the DR Series system tracks capacity, storage savings, and throughput on the DR Series system dashboard. This information is valuable in understanding the benefits of the DR Series system.

Note: Deduplication ratios increase over time. It is not uncommon to see a 2-4x reduction (25-50% total savings) on the initial backup. As additional full backup jobs are completed, the ratios will increase. Backup jobs with a 12-week retention will average a 15x ratio, in most cases.





A Appendix: Setting data expiration for Backup Exec 2012

Backup images will be deleted by Backup Exec (2012) after image expiration if more backups have run (At least two full backups of the same data set). Refer to the following link for more information: http://www.symantec.com/business/support/index?page=content&id=TECH187957

For information about image expiration, you can refer to the section, "About Backup Job Settings," in the *Symantec Backup Exec 2012 Administrator's Guide.* If you would like to keep the backup sets, refer to the section, "About Keeping Backup Sets."

You can change the data expiration settings by editing the specific backup job under **Backups** > **About backup job settings** > **Storage** > **Keep for**.

Backup Options	N. State of the st				
Schedule Storage	Sections for all backup jobs in this backup definition:				
Network	Priority: Medium 🔻				
Notification	Backup Exec server or Backup Exec server pool:				
Test Run	Planta processing and participation and planta point and planta p				
Verify					
Advanced Open File	🤗 Full				
Advanced Disk-based Backup					
Security	Storage: 🔄 Any disk storage (7 devices are in this pool) 🔻				
Pre/Post Commands	Keep for: 2 🕀 Weeks 🔻				
Virtual Machines	Compression: None Days				
Exclusions	Weeks				
	Encryption type: None Years				
	F Incremental				
	Storage: 🛃 Any disk storage (7 devices are in this pool)				
	Keep for: 1 💭 Week 🔻				
	Compression: None				
	Encryption type: None				
Help	OK Cancel				

