

Quest DR Series System Container Migration

Technical White Paper

Quest Engineering November 2017

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Legend

WARNING: A WARNING icon indicates a potential for property damage, personal injury, or death

CAUTION: A CAUTION icon indicates potential damage to hardware or loss of data if instructions are not followed.

IMPORTANT, NOTE, TIP, MOBILE, or VIDEO: An information icon indicates supporting information.

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Executive Summary

This paper provides suggested best practices for migrating container types to Quest-branded containers for the DR Series system. Not all backup applications are covered in this document. Please contact technical support if additional assistance is needed.

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://support.quest.com/DR-Series

NOTE: The DR Series system and backup application build version and screenshots used in this document might vary slightly, depending on the version of the DR Series system / backup application you are using.

Overview

Understanding migration strategies

Before you begin, you should refer to the following considerations about container migration in the DR Series system.

First, not all containers require migration; for example, CIFS/NFS containers are not "branded," and, generally, require no additional steps to migrate outside of normal maintenance actions. Second, if a container needs migration there are three ways, in general, by which to migrate it.

In this document, each section describes a data management application and details the suggested way to migrate containers. If your specific data management application is not included in this guide, please note that the general options for migration are the same.

- The first general migration strategy is to create new containers, add them to the backup application, and then allow data on the old containers to reach retention. At that point, you can delete the old container. This requires the least amount of effort generally but depends on the data management application. Because data deduplication occurs between containers of the same storage group on the DR Series system, there will be no increase in storage overhead because of this action. The downside to this might be container limitations, such as four VTL's per DR Series system, and additional action being required once data reaches retention. This strategy applies to all container types.
- The second general migration type is to create and add a new container, but then manually run duplication/copy jobs to move existing data between containers. Once completed, you can delete the old container immediately; however, the duplication/copy process can be time-consuming and difficult, depending on the application. This strategy applies to all container types.
- The third general migration type is to remove the container from the data management application as-is. Re-add it to the data management application as a Quest container, and then run an inventory process on the container. This strategy only works for OST/RDA protocol; it will not work for VTL. Also, the inventory process can range from easy to very difficult/time-consuming, depending on the application.

CIFS/NFS containers

There is no need to migrate a CIFS/NFS container. If Rapid CIFS or Rapid NFS is used, be sure to upgrade to the latest Quest-branded installer for your build of the DR Series system operating system (OS).

6

Veritas Backup Exec

Veritas Backup Exec is one of the easier backup applications in which to migrate containers. Generally, migration revolves around an inventory process or running duplication jobs.

Migrating OST containers

The best strategy for Veritas Backup Exec regarding OST containers is to simply remove the container and readd it as a Quest-branded container. Once that is complete, you need to run a catalog/inventory to re-import the images and retarget jobs to the Quest-branded container.

1 Start by reviewing your current container settings. Open the Backup Exec console, and navigate to the Storage Tab.

0			Veritas Backup Exec™ (Central .	Admir				
	Backup and Restore	ob Monitor	lil. Reports					
Standard Compact Filter •	Tree Pause List Disable Offline Storage C	Configure Loud Storage		Clean				
All Storage		,	Migrate-Me d	_				
Jobs Job History	Device information Name: Description:	Migrate-Me						
Backup Sets	State: Host server:	Online dr6300-47.systest.ocarina.local						
Active Alerts	Server location: Server type:	dr6300-47.systest.ocarina.local DELL						
Properties	Logical storage unit:	Migrate-Me						
	Backup Exec server with device proximity:	R630-29		v				
	Logon account:	backup_user	▼ Add/Edi	lit				
	Concurrent operations: Split data stream every:	2 😴 50 💭 GB 🔻						
	Data stream size:	64 KB		•				
	Stream handler:	Disabled		•				
	Client-side deduplication:	Enabled		•				
	Disk space to reserve for non- Backup Exec operations:	1 🕄 MB 🔻						
	Statistics Total capacity:	7.61 TB						
	Help							

2 Double-click the container to be migrated, and then select the Properties tab. Note the current settings.

3 On the Job Monitor tab, highlight all jobs using the container to be migrated, right-click and select Hold.

0		_				Veritas Backup Exec	™ (Central A	Administratio	
			Monitor	Storage F	lili. Reports				
Standard Compact Sort and Filter • Views	Backup Calendar Backups	Restore backup sets created by this job Restores	Edit D	elete Cancel Priori	ty Run H Now Jobs	old Test Job View Run Activity Hist		View Dele Job Log	
							lobs - 46 ite	ms	
Name	Server	Backup Exec.	. Storage	L	Job Type	State	Job Status		
🕨 💐 cwflin 11. systest. ocarina. Io	cwflin11.s	svste	🖂 DR43	00-27 CWF-BE-CIFS	1 Backup	Scheduled: cwflin	🕒 Schedu	uled	
🕨 🧮 cwflin 12. systest. ocarina. Io	cwf	Edit			1 Backup	Scheduled: cwflin	. 🕒 Schedu	uled	
🕨 💘 cwflin 13. systest. ocarina. Io	cwf	Delete		Delete	1 Backup	Scheduled: cwflin 🕒 Scheduled			
cwflin14.systest.ocarina.lo	cwf	Cancel			1 Backup	Scheduled: cwflin	lin 🕒 Scheduled		
🕨 🥰 cwflin15.systest.ocarina.lo	cwf	Change Priority		•	1 Backup	Scheduled: cwflin	. 🕒 Schedu	Scheduled	
• 💘 cwfWin5.systest.ocarina.lo	cwf	Run Now			Backup	Backup Scheduled: cwfWi 🕒 Schedu			
• 🙀 cwfWin6.systest.ocarina.lo	cwf	Test Run			Backup	Scheduled: cwfWi.	. 🕒 Schedi	uled	
🕨 🧺 R630-29-BE backup	R63	Hold			Backup	Scheduled	() Schedu	uled	
Winsoak24.systest.ocarina	win	View Job Activity		Return	Backup	Scheduled: winso	. 🕒 Schedi	uled	
Winsoak25.systest.ocarina	win	View Job History			Backup	Scheduled: winso	. 🕒 Schedi	uled	
< <u>> > ></u>	5A.C	Restore backup sets cr	eated by this jo	de	Destaur	0-5-3-1-3-W6-0-	A 0.1.1		
						Job H	stories - 49	85 items	
Nama		Сору	101000	Ctrl+C	Job Tupo				
Name Ser			storage	Created On	Job Type		ent Complete	Start Time	
78	soak24.sy.		MPR4FW_01	Central Admin	Backup	Successful	100%	11/14/2017 10	
WinSoak26.systest.ocar Win	Soak26.s.	R630-29	MPR4FW_02	Central Admin	Backup	Successful	100%	11/14/2017 10	
荣 cwfWin5.systest.ocarina cwf	Win5.syst	. R630-29	MPR4FW_01	Central Admin	Backup	Successful	100%	11/14/2017 10	

4 On the Storage Tab, right-click the container to be migrated, and select Disable.

	과 and Restore Job Monitor Storag	e
Compact	sable ffline Configure Configure Troubleshoot Configure Storage Configure Cloud Storage	Delete
Name 🔺	Pause	Storage
👻 📺 R630-29	Disable	Central
有 cwflin11.systest.ocarina.local	Offline	Backup
📲 cwflin12.systest.ocarina.local	Backup Exec Diagnostics	Backup
Cwflin13.systest.ocarina.local		Backup
Cwflin14.systest.ocarina.local	Delete Delete	Backup
cwflin15.systest.ocarina.local	Share	Backup
DR4300-27_CWF-BE-CIFS1		Disk sto
DR4300-27_CWF-BE-OST1	Inventory and Catalog now Inventory	OpenSt
DR4300-27_CWF-BE-RDCIFS	Catalog	Disk sto
DR6000-01_CWF-BE-OST1-T	Troubleshoot	OpenSt
🕨 📑 DR6300-47-CWF-BE-FC-VTL	Detaile	Robotic
DR6300-47-CWF-BE-ISCSI-V	Details	Robotic
S MIGRATE-ME	Copy Ctrl+C	OpenSt
🕨 🏭 Tape and Disk Cartridge Media		

5 When the container becomes grey, right-click it again, and select Delete.

ی ۲	ome Backup and F	lestore Job	Monitor	Storage
Compact Sort and	Configure Storage	Configure Co	d Storage	Troubleshoot Delete
Name 🔺	Pause Disable		e ne	Storage Central
📲 cwflin	Offline		ne	Backup
🖣 cwflin	Backup Exec Diagnostics		ne ne	Backup Backup
📲 cwflin	Delete	Delete	ne	Backup
🌒 cwflin 🦫	Share	Delete	ne	Backup
😂 DR43	Inventory and Catalog now		ne	Disk sto
🗎 DR43	Inventory and Catalog now	•	ne	OpenSt
📾 DR43	Catalog		ne	Disk sto
🔮 DR60	Troubleshoot	ne	OpenSt	
🕨 🚺 DR63	.		ne	Robotic
🕨 🚺 DR63	Details		ne	Robotic
음 MIGR	Сору	Ctrl+C	bled	OpenSto

6 On the pop-up window, do **not** select any check boxes; only click the **Yes** button.

CAUTION: Do NOT select the check box to delete backup sets. If you do all data will be deleted from the container and be unrecoverable

×	Delete MIGRATE-ME
×	Are you sure you want to delete MIGRATE-ME?
	Delete the backup sets from the Administration Console views after the storage device is successfully deleted.
Û	When you delete MIGRATE-ME, it is removed from the Backup Exec database. The backup sets remain on the storage device. If you plan to recreate the storage device, keep the backup sets in the Administration Console views. Otherwise, you must run inventory and catalog operations before you can restore data from that device.
	Yes No

- 7 If jobs are targeted to this container, a Retarget jobs option dialog box appears.
- 8 Select the Any disk storage option in the drop-down menu, and click OK.

3 5	Retarget Jobs 📃 🗖 🗖						
1 job was targete storage device p	ed to Migrate-Me. You must select anoth ool for this job.	ner storage location or					
New storage loca	ation 🧟 Any disk storage (2 devices a	are in this pool) 🔹					
	ОК	Cancel					

- 9 Select Configure Storage and proceed to add the container again as an OST device using the Quest plugin. If assistance is required, please review the Veritas Backup Exec setup whitepaper located at http://support.quest.com/DR-Series. Make sure to configure settings like "concurrent streams", "split data steam every", and "data stream size" to their original settings.
- 10 On the Storage tab, right-click the added container, and click the Inventory and Catalog now option.

0		
<u>ک</u> ا	me Backup and Restore Jo	b Monitor
Standard Compact Sort and Filter	List Offline Configure	Configure Troub
Views	Configure Storage Configure Cloud Storage	Configure
Name 🔺	Pause	
👻 📺 R630-29	Disable	
🖣 cwflin11.sy	Offline	
Cwflin12.sy		
🖣 cwflin13.sy	Backup Exec Diagnostics	
Cwflin14.sy	Delete De	lete
🖣 cwflin15.sy	Share	
🛶 DR4300-27		
DR4300-27	Inventory and Catalog now	
B D D D D D D D D D D	Inventory	•
DR4300-27	Catalog	
DR6000-0 ²	Troubleshoot	
DR6300-47		
DR6300-47	Details	
😘 Migrate-Me	Copy Ctr	I+C

This will automatically start and can be monitored in your list of jobs under Job Monitor.

0						Veritas Backup Exec	™ (Central Adminis
	Backup and		Monitor :	Storage F	lil. Reports		
Compact Compact Sort and Filter * Views		Restore backup set created by this job Restores		K ⊘ 🏄 lete Cancel Priori	ty Run Ha Now Jobs		
							Jobs - 47 Items
Name	Server	Backup Exec	Storage 🔺		Job Type	State	Job Status
🕨 💐 cwfWin6.systest.ocarina.	lo cwfWin6.sy	st	🗽 DR630	-47-CWF-BE-FC	. Backup	Scheduled: cwfWi.	🕒 Scheduled
🕨 💐 winsoak24.systest.ocarin	a winsoak24.s	sy	🜆 DR630	-47-CWF-BE-FC	Backup	Scheduled: winso.	🕒 Scheduled
🕨 💘 winsoak25.systest.ocarin	a winsoak25.	sy	0R630	-47-CWF-BE-FC	Backup	Scheduled: winso.	🕒 Scheduled
🕨 🧺 WinSoak26.systest.ocari	n WinSoak26	s	0R630	-47-CWF-BE-FC	Backup	Scheduled: WinSo	🕒 Scheduled
🕨 🥰 cwflin11.systest.ocarina.l	o cwflin11.sys	te	0R630	-47-CWF-BE-ISC.	Backup	Scheduled: cwflin	. 🕒 Scheduled
cwflin12.systest.ocarina.l	o cwflin12.sys	te	IR DR630	-47-CWF-BE-ISC.	Backup	Scheduled: cwflin	. 🕒 Scheduled
cwflin13.systest.ocarina.l	o cwflin13.sys	te	IR630	-47-CWF-BE-ISC.	Backup	Scheduled: cwflin	. 🕒 Scheduled
cwflin14.systest.ocarina.l	o cwflin14.sys	te	0R630	-47-CWF-BE-ISC.	Backup	Scheduled: cwflin	. 🕒 Scheduled
🕨 🤕 cwflin 15. systest. ocarina. I	o cwflin15.svs	te	DR630	-47-CWF-BE-ISC.	Backup	Scheduled: cwflin	. G Scheduled
1 Inventory Device 00003		R630-29	🤶 Migrate	-Me-Migrated	Utility	Active	Active
•						III	
						Job H	istories - 4985 Item
Name	Server	Backup Exec	Storage	Created On	Job Type	Job Status Perc	cent Complete Start Ti
👼 winsoak 24. systest. ocari	winsoak24.sy	R630-29	MPR4FW_01	Central Admin	Backup	Successful	100% 11/14/2
🚒 WinSoak 26. systest. ocar	WinSoak26.s	R630-29	MPR4FW_02	Central Admin	Backup	Successful	100% 11/14/2
BAURT				~			10001 1111

11 After the inventory/catalog finishes, highlight the jobs that used to be targeted to the original container.

12 Edit them and configure their full, incremental, or duplicate jobs to the newly added container.

Migrating VTL containers

The protocol used to connect the VTL container does not affect the migration process. VTL containers cannot simply be re-added as a different library type, which means that a new container of a Quest type must be created to change library types. Once the new library is added, it is recommended that you allow the old VLT backup sets to expire naturally. Then, remove the library from Backup Exec and the container from the DR appliance once retention is met completely. The only alternative is to run duplicate jobs on backup sets per tape within backup exec.

If you cannot allow retention to meet over time and are forced to duplicate tapes, you can use the following example:

- 1 Create and add the new Quest branded library in Backup Exec. Follow the Backup Exec whitepaper if step-by-step instructions are needed for this process.
- 2 Open the Backup Exec Console, and navigate to the Storage Tab. Find the library to be migrated from and expand it. Find the slots section under that library and double click on it.

0						
کی ا	Backup and		Job Monitor	Storage		
	ist Pause Offline	Configure Storage	Configure Cloud Storage	Troubleshoot Delete		
Views	State		Con	figure		
Name 🔺			State			
👻 📺 R630-29			Online			
cwflin11.systest.oc	arina.local		Online			
cwflin12.systest.oc	carina.local		Online			
cwflin13.systest.or	carina.local		Online			
Cwflin14.systest.oc	carina.local		Online			
cwflin15.systest.or	carina.local	Online				
DR4300-27_CWF	-BE-CIFS1		Online			
DR4300-27_CWF-	-BE-OST1	Online				
📾 DR4300-27_CWF	BE-RDCIFS1	Online				
DR6000-01_CWF	-BE-OST1-Target		Online			
DR6300-47-CWF-	BE-FC-VTL1		Online			
MPR4FW_01	(No media)		Online			
MPR4FW_02	(No media)		Online			
MPR4FW_03	(No media)		Online			
MPR4FW_04	(No media)		Online			
MPR4FW_05	(No media)		Online			
MPR4FW_06	(No media)		Online			
MPR4FW_07	(No media)		Online			
MPR4FW_08	(No media)		Online			
MPR4FW_09	(No media)		Online			
MPR4FW_10	(No media)		Online			
E Slots						

3 In the Slots screen it can be useful to organize the media by the "Allocated Date" column, which will bring all the tapes currently under retention to the top. This screen can be useful to define a list of tapes to be copied by barcode. Once this is done pick one of the tapes and double-click it.

0							۷	eritas Ba	ckup Exec™	M (Centra	l Admi	nistration Ser
(2) A Horn		Backup and		ob Monitor	Storage	Repo						
Compact Sort and Filter •	Tree List	PauseDisableOffline	Configure Storage (Configure Tr Cloud Storage	oubleshoot Share	Sc	an Inventory		nventory and Catalog now	Initialize now	اکر Label	Import Export
Views		State		Configure	•				Storage C	perations)		
All Storage								DR63	00-47-CWF	-BE-FC-	VTL1	Slots details
Jobs	Slot Nu	mber	Barcode	Media Label	Allocated Date 👻		Media Descrip	tion Capa	acity			M
	🔤 Sk	ot 31	MPR4FW00V	MPR4FW00W	11/16/2017 10:09	58			11.1 (3B used of	400 GB	Ke
Job History	🚥 Sle	ot 8	MPR4FW009	MPR4FW009	11/16/2017 6:18:	2 AM			29.3	3B used of	400 GB	Ke
Active Alerts	🔤 Sle	ot 7	MPR4FW008	MPR4FW008	11/15/2017 2:14:	4 PM			112 0	GB used of	400 GB	Ke
Slots	🔤 Sle	ot 6	MPR4FW007	MPR4FW007	11/15/2017 6:22:3	0 AM			126 0	GB used of	400 GB	Ke
	🔤 Sle	ot 5	MPR4FW006	MPR4FW006	11/14/2017 6:04:0	6 PM			227 (GB used of	400 GB	Ke
	🔤 Sle	ot 55	MPR4FW01K	MPR4FW01K	11/11/2017 6:16:5	2 AM			400 0	GB used of	400 GB	K
	🔤 Sle	ot 4	MPR4FW005	MPR4FW005	11/11/2017 6:11:0	8 AM			400 0	GB used of	400 GB	К

NOTE: In Backup Exec it is usually possible to copy multiple rows via Ctrl-C and paste into a spreadsheet tool. This is also useful for generated a list of tapes to be migrated.

i

4 On this screen highlight all the backup sets stored on this tape. This may include multiple backups if this tape was appended to. Right click and select the Duplicate option.

0						Veritas Backup Exe
ی ا	ne Backup and		Monitor	Storage	Reports	
Compact Sort and Filter •	Tree Pause List Disable		Configure 1 ud Storage	Froubleshoot Sha	ere Scan Inven	tory Catalog Inventory ar Catalog no
Views	State		Configu	re		Storage
🗲 DR6300-47-CWF-BE	-FC-VTL1 Slots details					
Backup Sets	Server 🔺		Resource	Backup	Time	Backup Method S
	CWFWIN6.SYSTEST.	OCARINA.LO	🔛 F:	11/16/2	2017 10:08:26 AM	🌍 Snapshot Increm
Properties	WINSOAK25.SYSTES	T.OCARINA.L	🔛 F:	11/16/2	2017 10:05:52 AM	🌍 Snapshot Increm 🛛
	WINSOAK25.SYSTES	T.OCARINA.L	🔛 F:	11/16/2	2017 6:07:19 AM	穹 Snapshot Full 🛛 🛛
	CWFWIN5.SYSTEST.	OCARINA.LO	🔛 F:	11/16/2	2017 2:12:26 AM	🌍 Snapshot Increm 🛛
	CWFWIN5.SYSTES	Expire			10:12:41 PM	🌍 Snapshot Increir 🏾 🖥
	WINSOAK25.SYST	Retain			10:09:11 PM	🌍 Snapshot Increm 🛛
	WINSOAK25.SYST	Catalog			6:11:59 PM	🌍 Snapshot Increm 🛛
	CWFWIN5.SYSTES	Duplicate			6:10:54 AM	穹 Snapshot Full 🛛 🛛
	CWFWIN5.SYSTES	Verify			8:04:08 AM	穹 Snapshot Full 🛛 🛛
	WINSOAK26.SYST	Expiration			6:07:26 AM	穹 Snapshot Full 🛛 🛛
		Show Depend	lent Backup S	ets		

5 In the Duplicate Job window, select the newly added Quest Library under the Storage drop-down. Also, select the media set. Remember that in Backup Exec media sets define retention. There is no way to continue the backup set current retention; this action will reset retention to the settings of the new media set. Because of this, you might want to create a newer, short media set. Disabling the "Verity at the end of the job" check box can also save on duplication job runtime. Click OK.

0	Duplica	te Job	_ 0	x
Duplicate Backup Sets 00015				
Schedule				
 Run now 				
Run on: 11/16/2017 12:49 PM				
Create without a schedule				
Submit job on hold				
Storage				\leq
Storage: DR6300-47-CWF-BE	E-ISCSI-VTL1 (8	32 GB free)		•
Media set: 🛛 🖓 Keep data for 1 Week			•	
When this job begins	-			
Overwrite media				
• 11		endable media is available		
Append to media, ter	minate job if no	appendable media is availa	able	
Eject media after job	completes			
Retension media before				
Use Write once, read		media		
Enable DirectCopy to	tape			
Compression: Hardware (if available, ot	herwise none)	•		
Encryption type: None		•		
Verify at the end of the	e job			
Backup sets being duplicated:				
Server	Backup Source	Backup Time	Backup Method	
CWFWIN6.SYSTEST.OCARINA.LOCAL	🔛 F:	11/16/2017 10:08:26 AM	Snapshot Incremental	-
WINSOAK25.SYSTEST.OCARINA.LOCAL	🔛 F:	11/16/2017 10:05:52 AM	Snapshot Incremental	
WINSOAK25.SYSTEST.OCARINA.LOCAL	🔛 F:	11/16/2017 6:07:19 AM	穹 Snapshot Full	
OWEMINE OVOTE OT OCADINA LOCAL	200 P-	44/46/2047 2-42-26 AM	Constant Incromental	Ŧ
Help			ОК Сап	cel
L				

6 At this point, you can monitor the duplication under the Job Monitor tab for completion.

0					Veritas Backup Exec™	(Central Administration Server)	l de la companya de l
	Backup and Re	estore Job Mor	nitor Storage	III. Reports			
Compact Sort and Filter + Views		store backup sets eated by this job Restores	Edit Delete Cancel I	Priority Run Hold Jobs	Test Job View Jo Run Activity Histor	b Run View Delete View Jo y Now Job Log Histor	
					Jo	bs - 47 ltems	
Name	Server	Backup Exec	Storage 🔺	Job Type	State	Job Status	Average Job Ra
🕨 🙀 cwfWin6.systest.ocarina.lo	cwfWin6.syst		IR6300-47-CWF-BE-	FC Backup	Scheduled: cwfWi	Scheduled	
🕨 💘 winsoak24.systest.ocarina	winsoak24.sy		100 DR6300-47-CWF-BE-	FC Backup	Scheduled: winso	Scheduled	
Winsoak25.systest.ocarina	winsoak25.sy		100 DR6300-47-CWF-BE-	FC Backup	Scheduled: winso	Scheduled	
WinSoak26.systest.ocarin	WinSoak26.s		100 DR6300-47-CWF-BE-	FC Backup	Scheduled: WinSo	Scheduled	
🕨 🧺 cwflin 11. systest. ocarina. Io	cwflin11.syste		100 DR6300-47-CWF-BE-	ISC Backup	Scheduled: cwflin	🕒 Scheduled	
🕨 🧺 cwflin 12. systest. ocarina. lo	cwflin12.syste		IR6300-47-CWF-BE-	ISC Backup	Scheduled: cwflin	Scheduled	
cwflin13.systest.ocarina.lo	cwflin13.syste		100 DR6300-47-CWF-BE-	ISC Backup	Scheduled: cwflin	Scheduled	
🕨 🧮 cwflin14.systest.ocarina.lo	cwflin14.syste		100 DR6300-47-CWF-BE-	ISC Backup	Scheduled: cwflin	Scheduled	
🕨 🥰 cwflin15.systest.ocarina.lo	cwflin15.syste		100 DR6300-47-CWF-BE-	ISC Backup	Scheduled: cwflin	🕒 Scheduled	
buplicate Backup Sets 00015	cwfWin6.syst	R630-29	📼 MPR4FW_09	Duplicate	Active	Active: Running - Duplicate	8,870.00 MB/mi

- 7 Repeat this process for each tape to be copied. Depending on the number of tapes this can be time consuming.
- 8 After copying all available tapes, do not forget to modify your jobs to point to the newly created library. Then Disable and Delete the old library from Backup Exec and the VTL container from the DR appliance.

Veritas NetBackup

Veritas NetBackup generally requires that a secondary container be created to migrate. For OST, the NetBackup database only allows a Storage Server to be added as one type at a time.

Migrating OST containers

It is not possible to mount the same storage server twice in a NetBackup cell using the same hostname or IP address. This is because these fields are shared and are required to be unique in the NetBackup database. This limitation is the same as adding a NDMP server with the same hostname or IP as a storage server https://www.veritas.com/support/en_US/article.000018018

The most functional way to migrate involves removing and re-adding the Storage Server then running a manual inventory process, which can be time consuming depending on the number of images. The Storage Server cannot be removed without first removing all the storage units and disk pools associated with the storage server, and this cannot be done with OST images left unexpired. Because of the complicated nature of this it is highly recommended that Veritas NetBackup support personnel assist with the migration, if it is absolutely necessary.

Migrating VTL containers

The protocol used to connect the VTL container does not affect the migration process. VTL containers cannot be re-added as a different library type, which means that a new container of a Quest type needs to be created to change library types. Once the new library is added, it is recommended that you allow the old VLT backup sets to expire naturally. Then remove the old library from NetBackup and the container from the DR appliance once retention is met completely. The only alternative is to run duplicate jobs on backup sets per tape within NetBackup.

If you cannot allow retention to meet over time and are forced to duplicate tapes, you can use the following example:

- 1 Create and add the new Quest branded library in NetBackup. Follow the instructions in the Veritas NetBackup setup whitepaper if step-by-step instructions are needed for this process.
- 2 Open the NetBackup Administration Console, expand Media and Device Management, then select Media. Identify the library to be migrated and the Volume Group in which the media resides by checking the

library serial number and the Barcodes listed in the Volume Group. In the example notice how the library starts with a serial number **KF5F** and all of the tapes begin **KF5F**. You can also use the Volume Groups panel to develop a list of tapes to be migrated. Confirm the "Time Assigned" column is not blank, which suggests the media is currently in use.



NOTE: In NetBackup it is usually possible to copy multiple rows via Ctrl-C and paste into a spreadsheet tool. This is also useful for generated a list of tapes to be migrated.

3 Expand the NetBackup Management and Storage sections and then select Catalog.



4 Do the following:

i

- a Set the Action dropdown to **Duplicate**.
- b Select the "Media ID:" radio button and then enter or find the Media ID that matches a barcode to be copied.

- c Select a from and to time range under "Date/Time Range" that covers the complete retention of that tape. There is no harm in setting the from date to an extremely distant date.
- d Leave other options set at the default settings, and click **Search Now**. There may be multiple search results as multiple backups may be appended to the same tape.

Search Resu	ılts						
Action:	-						
Duplicate	-						
Media				Copies:			
Media ID:	Media	host:		Primary Copy			
F3F023	💌 <ali m<="" th=""><th>edia Hosts></th><th></th><th>Policy name:</th><th></th><th></th><th></th></ali>	edia Hosts>		Policy name:			
O Disk Type:	Disk p	aal		<all policies=""></all>			
	· · ·	501.		Policy type:			
BasicDisk	<u></u>			<all policy="" types=""></all>	,		
Media server:	Path:			Type of backup:			
<all host<="" media="" th=""><th>s> 💌 <all></all></th><th></th><th>-</th><th><all backup="" th="" types<=""><th>\$></th><th></th><th></th></all></th></all>	s> 💌 <all></all>		-	<all backup="" th="" types<=""><th>\$></th><th></th><th></th></all>	\$>		
				Client (host name)	:		
		_	[<all clients=""></all>			
Date/Time Rang				Job Priority			
From: Nov 13, 21	004 12:10:24 F 🗧	<u></u>		Override defa	ult priority		
To: Nov 14, 2	017 11:59:59 F 🗧			Job Priority		75000 🗘	
				(higher number is	greater priority)		
						Liele C	earch Now
						<u>H</u> elp <u>S</u> e	earchNow
Search Results:	7 backup image	(s) found (7 selec	ted)				
Backup ID	Date	Policy	Schedule Name	e Media Server	🗢 Media ID	Copy Number	Primary Cor
cwfwin3_1510			Full	r630-25.systest			Yes
cwfwin4_1510 cwfwin4_1510	Nov 8, 2017 8:0	CVVF-FC	Full Incr	r630-25.systest r630-25.systest			Yes Yes
cwfwin4_1510	🛃 Verify		Incr	r630-25.systest			Yes
cwfwin4_1510	Duplicate		Incr	r630-25.systest			Yes
cwfwin4_1510	🕅 Expire	Delete	Incr	r630-25.systest	F3F023	1	Yes
cwfwin4_1510	1 🖉 Initiate Imp		Incr	r630-25.systest	F3F023	1	Yes

e Select them all and then right-click and select Duplicate...

5 In the Duplication screen, do the following:

- a Select the Primary Check box.
- b Select the new Quest VTL storage unit in the Storage Unit drop down.
- c Set a volume pool to use. Unless manual volume pools have been created the NetBackup volume pool is usually correct.
- d Select No Change under the Retention drop-down, unless retention modification is needed.
- e Quest also suggests to use the "Fail all copies" option under "for each image if this copy fails." This will cause the job to fail if a single backup fails to copy to a new tape.
- f Click the OK button once finished.

	Setup Di	uplication Variables		X
🌒 All storage units m	nust be connected to the	same media server.		
Storage unit:	Volume pool:	Retention:	For each image this copy fails:	if Media Owner:
dr6300-07_CWF-NBU-	🔻 NetBackup	▼ no change	🔻 fail all copies	🔻 Any 💌
	-	-	-	-
	-	-	-	•
	-	-	-	-
e multiplexing				
			<u>o</u> ĸ	<u>C</u> ancel <u>H</u> elp
	Storage unit: dr6300-07_CWF-NBU-	All storage units must be connected to the Storage unit: Volume pool: dr6300-07_CWF-NBU Volume pool: NetBackup	Storage unit: Volume pool: Retention: dr6300-07_CWF-NBU VetBackup no change	All storage units must be connected to the same media server. Storage unit: Volume pool: Retention: this copy fails: dr6300-07_CWF-NBU NetBackup no change fail all copies a a a a a a a a a a a a a a a a a a a

6 Click OK on the Confirm Duplicate dialog box.

5	Confirm Duplicate	x
	uested to Duplicate image(s). To proceed, click Ol ab to view the status of your request.	K. Select

7 You can monitor individual tape duplication in the Activity Monitor section.

5		Activity Mo	nitor - R630-25.systest.	ocarina.local - NetBackup Admi	nistration	Console [SYSTEST\dyla	anr logged ir
Ø Veritas NetBackup™							
<u>File E</u> dit <u>V</u> iew <u>A</u> ctions <u>H</u> elp							
	a 🔒	▼ 7 €×6	n 🖞 🖞 🖞 🖞 👘	90273×04	Э		
R630-25.systest.ocarina.local (Master Server)	202	0 Jobs (0 Queued 1 A	Active O Waiting for Retry O	Suspended 0 Incomplete 2019 Done	1 selected)	
R630-25.systest.ocarina.local (Master Server Backup, Archive, and Restore		loh ld Tupo	Ctoto	Ctoto Dotoilo	Ctotuo	Job Doliny	- Kilobytes
- 🔜 Backup, Archive, and Restore	*	25624 Duplication	Active			· · · · ·	115,121,858
🕂 🗒 NetBackup Management	X	25623 Duplication	Done			USEP_DR6300-07-CWF	11,286,541
🔤 🖬 Reports	1 👷	25622 Image Cle	Done			1	
- 🗔 Policies	X	25621 Backup	Done			0 CWF-OST	3,537,978
👇 📼 Storage	X	25620 Backup	Done			0 CWF-RDCIFS	6
— 📼 Storage Units	X	25619 Backup	Done			0 CWF-CIFS	6
🗢 🥸 Storage Unit Groups	X	25618 Backup	Done			0 CWF-RDCIFS	6,360,107
Storage Lifecycle Policies	X	25617 Backup	Done			0 CWF-CIFS	3,829,382
- 🚯 SLP Windows	X	25616 Backup	Done			0 CWF-OST	4,748,862
- 🖳 Cataloα	ା 😳	OCCAR Dealan	Dana			0.0WE FO	0.705.040

- 8 Repeat this process for each tape to be copied. Depending on the number of tapes this can be time consuming.
- 9 After copying all available tapes do not forget to modify your policies to point to the newly created library. Then, delete the old library from NetBackup and the VTL container from the DR Series system appliance.

CommVault

Migrating VTL containers

The protocol used to connect the VTL container does not affect the Migration process. VTL containers cannot simply be re-added as a different library type. This means that a new container of a Quest type needs to be created to change library types. Once the new library is added it is recommended that you allow the old VLT backup sets to expire naturally. Then remove the old library from CommVault and the container from the DR appliance once retention is met completely. The only alternative is to run a Synchronous Copy per Storage Policy utilizing the VTL to be migrated. Other actions, like Media Refresh, cannot work because they're intended to be used within the same library instead of copying between libraries.

If you cannot allow retention to meet over time and are forced to Synchronous Copy tapes you can use the following example:

- 1 Create and add the new Quest branded library in CommVault. Follow the CommVault whitepaper if step by step instructions are needed for this process.
- 2 Open the CommCell Console, and do the following:
 - a Expand Polices and then Storage Polices.
 - b Find a policy currently using the VTL to be migrated.
 - c Select that policy and in the content tab, right-click the white space below your copies.
 - d Select "All Tasks" and click "Create New Copy."

٢										
Home	Tools	Storage	Configurati	on	Reports	View	Support			
Comm	Co	Job ntroller v	Event Viewer	O Alert V	Schedu		Licensing a Registration			Gettin Starte
	Cell Browse	View	Ф			Co o Started	mfigure	R4300-26-i5C		F ob Controlle
r630-2 ⊕ - ∰ Cli ⊕ - ∰ Cli		er Groups:				-		Storage Policies		
€ Stu +€	orage Reso	tion Engines nts			Copy Primary	Prim	ary	Status V	Default Library	MediaA(r630-28
E 😥 Po	Configura Monitoring	ker tion Policies 3 Policies			Viev Add	Fasks v I to Favo perties	rites	Run Cont Run Anal	liary Copy ent Indexing ytics Verification	
Replication Policies Schedule Policies Schedule Policies							Create New Copy Create New Snapshot Copy			
+	<u> </u> DR43	IServeDR DO-26 DO-26-FC-MUL	.TI-VTL					Clone Delete		
Ľ		DD-26-FC-VTL DD-26-ISCSI-V 'imary	τι	÷	Active Aux	diliary C	opy Jobs			

- 3 On the General tab, do the following: (but do not select any of the copy type check boxes).
 - a Set the Default Destination library to the newly added Quest VTL, making sure to pick the appropriate Media Agent, Drive Pool, and Scratch Pool.
 - b You will also need to enter a Copy Name.

© Co	py Properties (Storage	Policy : DR4300-26-iSCSI-VTL)
Selective Copy General Retention	Associations Media Copy Policy Data Paths	Advanced Deduplication Provisioning Data Path Configuration Auxiliary Copy Fallen Behind
Copy Information		
Copy Name:		Migration
Primary Copy		✓ Active
Selective Copy		Enable Parallel copy
Enable Inline Cop	У	
🗌 Do not make I	nline copy to same library	
Defer Auxiliary Co	opy for 15 day(s)	WORM Copy
Use Global Dedup	lication Policy	×
Enable Deduplicat	tion	
Use Global Secon	dary Copy Policy	×
Retention of Glo	bal Secondary Copy Policy:	
Override the r	etention settings for this copy	
Default Destination		
Library: DR4	4300-26-FC-VTL	~
MediaAgent: r63	0-28	· · · · · · · · · · · · · · · · · · ·
Drive Pool: Driv	vePool(r630-28)65	· · · · · · · · · · · · · · · · · · ·
Scratch Pool: Def	ault Scratch	~

4 Under the Retention tab, select the desired retention for the copied backups. Note that you cannot continue the previous retention used by the backup. Because of this, it might be logical to get this retention to shorter than normally required.

🕄 Сору	Properties (S	torage Po	olicy : DR	4300-26	-iscsi-v	TL)	x
Selective Conv General Retention	Associations Copy Policy Dat	Media a Paths Da	Advanced ta Path Coni		plication Auxiliary C	Provisio	
🖌 Enable Data A	ging						
Enable Manag	ed Disk Space for D)isk Library					
🔄 Do not retain i	intermediate increm	nentals and c	lifferentials t	efore a ne	w differenti	al	
O Spool Copy (N	o Retention)						
Basic Retention R	ule for All Backups						
🔿 Infinite							
 Retain for 		30 <u>-</u> Da	ys		4 <u>*</u> Cy	vcles	

5 In the Copy Policy section, select the check box for "All Backups," unless you specifically need a different range, and click the OK button.

© Copy Properties	s (Storage	Policy : DR430	0-26-iSC	(SI-VTL	x
Selective Copy Associations General Retention Copy Policy C	Media Data Paths	Advanced Data Path Configu	1	lication Auxiliary Co	Provisioning py Fallen Behind
Backup Selection Backups On and After: Thursday, Source Copy	November 16	, 21 -			
Specify Source for Auxiliary Copy:	Migration-co	ру		~	
Note: Default source copy is the Primar	y copy unless	another is specified	above.		
			ОК	Cance	el Help

6 If the policy is large enough, a confirmation notice might appear, suggesting the jobs are older than 14 days or it will be copying more than 10TB. Click "No" to proceed with the current settings.

۲	Confirmation
?	Source copy has jobs that are either older than 14 days or having more than 10 TB of data. In order to reduce the amount of data to copy, do you want to select 'Backup On and After Date' instead of 'All Backups'? Yes No

7 Right-click the Storage Policy, select "All Tasks," and then click "Run Auxiliary Copy."



8 Click the "Select a Copy" radio button, select the newly created synchronous copy by name in the drop down, and then click OK.

Auxiliary Copy Job Options X
General Job Initiation
Select a Storage Policy DR4300-26-ISCSI-VTL V
Select Source MediaAgent
Copy Selection
O All Copies
Select A Copy Migration V
Number Of Readers
Number Of Streams
Allow Maximum
Start New Media
Mark Media Full On Success
Use Most Recent Full Backup For Auxcopy
Wait For All Parallel Copy Resources
Use Scalable Resource Allocation
Skip jobs that failed data verification
Cancel Advanced 🦻 Save As Script Help

9 You can view the status of the copy from the Job Controller.

)								r6.	30-2 8 - v11	I Commcel	Console			
Home Tools Storage	Configura	ation F	Reports Vie	w Support										
🔒 🔼			Ŀ	<u>,</u>	Q.	5	-			3				
CommCell Job Controller 🗸	Event Viewer	Alert V	Scheduler	Licensing and Registration	Control Panel	What's new?	Gettin Starte			cs				
View				Configure			F	eatured						
CommCell Browser	Ą	- /	🗾 DR4300-26-	ISCSI-VTL 🗙 💽	Job Controlle	er ×								
r630-28 Client Computer Groups Client Computers			lob Controller											
- 🔂 Security		V	Job ID Ope	ration Client Com	outer	Agent Type	Subclient	Job Type	Phase	Storage P	MediaAgent	Status	Progress	E
			21780 Auxil	iary C					Auxiliary C	. DR4300-26	. <mark>r630-28</mark>	Running	0%	
Locations HediaAgents														

- 10 Repeat this process for each policy to be copied. Depending on the number of policies and the total amount of data this can be time consuming.
- 11 After copying all the policies, do not forget to modify your primary copies to point to the newly created library. Then, delete the old library from CommVault and the VTL container from the DR Series appliance.

Quest NetVault

Migrating RDA containers

There is no need to migrate data in RDA containers. After upgrading the DR Series system appliance and upgrading to NetVault 11.4.5.11 or later, all previous RDA devices will be converted to Quest branding automatically. Just ensure that you update both the DR Series system operating system (OS) and the NetVault server.

Migrating VTL containers

The protocol used to connect the VTL container does not affect the migration process. VTL containers cannot be re-added as a different library type, which means that a new container of a Quest type needs to be created to change library types. Once the new library is added, it is recommended that you allow the old VLT backup sets to expire naturally. Then, remove the old library from NetVault and the container from the DR Series appliance once retention is met completely. The only alternative is to run a Data Copy Job per Saveset with the VTL to be migrated.

If you cannot allow retention to meet over time and are forced to do Data Copy Jobs, you can use the following example:

- 1 Create and add the new Quest branded library in NetVault. Follow the instructions in the DR Series system NetVault setup whitepaper if step-by-step instructions are needed for this process.
- 2 Open the NetVault web GUI, and click **Create Backup Job**. Enter a name for the Job and click **Create New**.

Quest Net	Vault Backup			🏴 English 🗸 🏟 🗸 🌘	💄 admin ·
Monitoring Server Monitor	Create Backup Job				
Job Calendar Device Activity View Logs	Create a new backup job by selecting or creating	options sets below.			
 View Events Deployment Task Status 	Job Name:	Job Copy			
Create Backup Job Create Restore Job Manage Sets	Selections:	cw17-00	~	🔡 Create New	
 Manage Job Definitions Manage Policies Explore Storage 	Plugin Options:	Default Backup Options - File System	~	🔡 Create New	
Reporting all View Reports	Schedule:	Immediate	~	📰 Create New	
 Job History Configuration 	Target Storage:	Default Backup Target Options	~	👪 Create New	
Guided Configuration Manage Clients Manage Devices Manage Users	Advanced Options:	Default Advanced Backup Options	~	🔡 Create New	
Configure Notifications Change Settings		< Back		Save Save & S	ubmit

- 3 Do the following:
 - a Expand the server/smart client with the libraries attached.
 - b Expand the Data Copy plugin, and then the Backups folder.
 - c Expand the client that was backed up and the plugin used to do the backup, in this case, FileSystem.
 - d Select one of the savesets (only one can be selected at a time), and click the Save button.

Quest Net	Vault Backup	🏴 English 🗸	Q -	0	💄 admin 🖥
Monitoring Server Monitor Job Status	NetVault Backup Selections				
 Job Calendar Device Activity View Logs 	Browse to create/edit a backup selection set. Save the selection set by clicking the Save button.				
 View Events Deployment Task Status 	Actions 👻				
 Create Backup Job Create Restore Job Manage Sets Manage Job Definitions Manage Policies Explore Storage 	R720-36 R720-36 Backups Backups Backups B @ Writin16 B @ File System				
Reporting al View Reports Job History	⊕ □				
Configuration Guided Configuration Manage Clients Manage Devices Manage Users Configure Notifications	⊕- □				
Change Settings	 < Cancel Cl 	one Existing Set	L	li s	ave

4 Name the selection set, and click **Save**.

Create Ne	w Set			
data copy				
Confirm set crea	ation			
			Cancel	Save

- 5 Set the Target Storage device to the newly created VTL and the Advanced Options to a retention set you prefer. The retention for this copied job will start over, and the retention is defined here. If you do not want to restart the full retention, a shorter than normal retention can be defined in a new Advanced Options set. For information on creating sets, refer to the DR Series system NetVault setup whitepaper and the NetVault specific documentation.
- 6 Click Save & Submit.

Quest 🛛	NetVault Backup			English 🗸	¢-	1 💄 admin
Monitoring	Create Backup Job					
 Server Monitor Job Status Job Calendar Device Activity 	Create a new backup job by selecting or creatin	g aptions sets below.				
 View Logs View Events Deployment Task State 	Job Name:	; Јоb Сору				
Jobs Create Backup Job	Selections	data copy	~	🔡 Cre	ate Nev	N
 Create Backup Job Create Restore Job Manage Sets Manage Job Definitio Manage Policies 	Plugin Options		~	III Cre	ate Nev	N
Explore Storage	Schedule	Immediate	~	🔡 Cre	ate Nev	N
Reporting II View Reports Job History	Source Storage	Any Device	~	III Cre	ate Nev	N
Configuration ★ Guided Configuratio III Manage Clients	n Target Storage	DR4300-04-FC-VTL		🔡 Cre	ate Nev	N
 Manage Devices Manage Users 	Advanced Options	1-month	$\overline{}$	🔛 Cre	ate Nev	N
Configure Notificatio	ons l	< Back	Sar	ve	Save 8	k Submit

7 You can now monitor the Data Copy progress in the job Status page.

nitoring									
Server Monitor	 Job Activity 								
Job Status	Curren	t Activity		Policies			Regular	Jobs	
Device Activity	1 Adva								
View Logs	2 - Cover		1 Warnings		25 Heathy	Warmings		il Heat	Bly
View Events	0) Fredry	AL Scheduled	trons			tren .			
Deployment Task Status	Click on the bors to sharinge which jobs a	rre shown balow, or view all corren	et activity						
8									
Create Backup Job									
Create Restore Job Manage Sets									
Manage Job Definitions	¢	Chausing Allow	alting labs					a filter	
								O futer	
	Use this tree to further filter the jub list	Showing: All w	aiting jobs					or futer	
	Use this tree to further filter the jub list • all waiting jobs	Start Time - Job	17-1. 	v Type	 ID / Instance / Phes 	Next runtime 🗸	Progress ~	Current Status ~	Last Exit Status 🗸
Manage Policies Explore Storage			Title v Client	v Type Backop	 ID / Instance / Phese 201 (Immance 1, P., 		Progress ~	Current Status 👒	Last Exit Status ~ Not Known
Explore Storage porting View Reports		Start Time - Job 11/28/2017.1:28 Job	Title v Client	CONTRACTOR OF T		Never		Current Status 👒	
Explore Storage porting View Reports Job History		Start Time ▼ Job 11/28/2017.128 job 11/24/2017.380 job	Title v Client Copy R720-36	Beckup	201 (impance 1, P.,	Never 11/28/2012 3/00	0.00 Kill (0 Kill avg)	Current Status 🕞	Not Known
Explore Storage corting View Reports		Start Time > > Job 11/28/2017.128 Job 11/24/2017.300 CL4 11/24/2017.300 CL4	Title Client Copy R720-36 41-56 (DR430 conflan41	Backup Backup	201 Octance 1, P.,. 130 Distance 181.,.	Never 11/28/2012 3/00 11/28/2012 3:00	0.00 KiB (0 KiB avg) 99.25 GiB (99 GiB.,	Current Status ~ Running Wald Running Wald	Not Known Backup Compl.
Explore Storage Dorting View Reports Job History Viguration Guided Configuration Manage Clients		Start Time * Jab 11/28/2017 128 Jab 11/24/2017 3:00 CL4 11/24/2017 3:00 CL4 11/24/2017 3:00 CL4	Title Client Copy R720-36 41-56 (DR430 cw/Un43 61-56 (DR430 cw/Un56	Backup Backup Backup	201 Gromanice 1, P.,. 130 Distance 181, 145 Distance 182,	Never 11/28/2017.3700 11/28/2017.3700 11/28/2017.3700	0.00 KB (0 KB avg) 99.25 GB (99 GB. 101.70 GB (10)	Current Status v Renning: Wats Renning: Wats Renning: Wats	Not Known Bactup Compl., Bactup Compl., Bactup Compl.,
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- 8 Repeat this process for each Saveset to be copied. Depending on the number of Savesets, this can be time consuming.
- 9 After copying all available data do not forget to modify your jobs to point to the newly created library. Then, delete the old library from NetVault and the VTL container from the DR Series appliance.

Quest vRanger

Migrating RDA containers

There is no need to migrate data in RDA containers. After upgrading the DR Series system appliance and upgrading to vRanger 7.6.4.0 or later, all previous RDA devices will be converted to Quest branding automatically. Just be sure to update both the DR Series operating system and the vRanger server.