

Setting up the DR Series system on HP®
Data Protector 9.0

Technical White Paper

Quest Software Inc.

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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.

Setting up the DR Series system on HP® Data Protector 9.0

Updated: December 22, 2017

Contents

- Installing and configuring the DR Series system 6**
- Setting up HP Data Protector 13**
 - Backing up in the Windows environment 13
 - Backing up in the Unix/Linux environment 16
- Creating a new backup job with the DR Series system as the target 17**
- Setting up DR Series native replication and restoring from a target container 23**
 - Building a replication relationship between DR Series systems 23
 - Runing backup to the source DR Series system (Optional) 27
 - Preparing the replication target for restore 30
 - Restoring from the target DR Series system 35
- Setting up the DR Series system cleaner 38**
- Monitoring Deduplication, Compression and Performance 39**
- A - Creating a storage device for CIFS 40**
- B - Creating a storage device for NFS 42**
- C - User commands 42**

Revisions

| Date | Description |
|--------------|--|
| April 2015 | Initial release |
| October 2017 | Updated Quest-branded screen shots for the DR Series system release 4.0.3. |

Executive Summary

This document provides information about how to set up the Quest DR Series system as a backup target for HP Data Protector 9.0

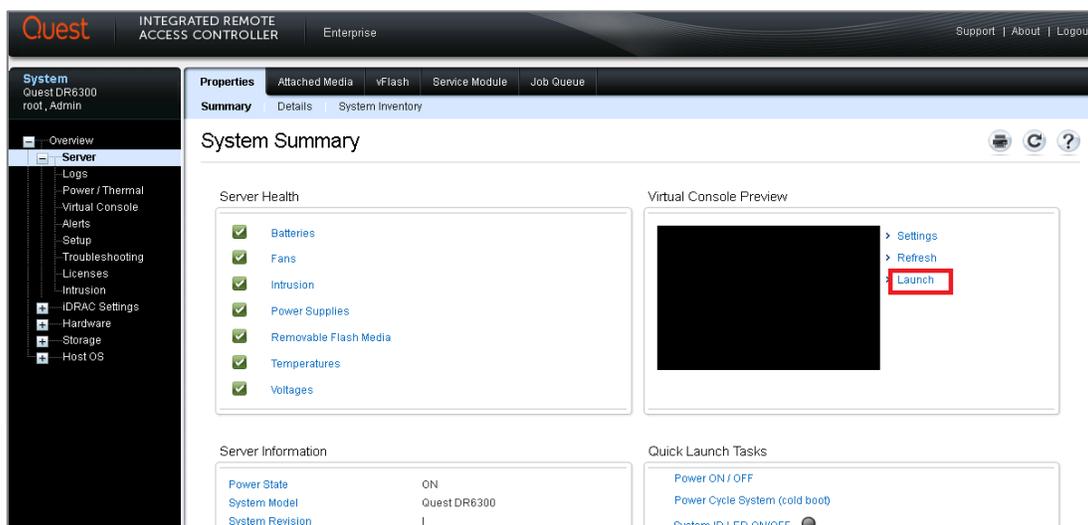
For additional documentation including other data management application (DMA) best practice whitepapers, see the system documentation for your specific DR Series system model at:

<http://support.quest.com/DR-Series>

i **NOTE:** The DR Series system/HP Data Protector build version and screenshots used for this document might vary slightly, depending on the version of the DR Series system/ HP Data Protector Software version you are using.

Installing and configuring the DR Series system

- 1 Rack and cable the DR Series system, and power it on. Refer to *Quest DR Series System Administrator Guide*, under sections of “iDRAC Connection”, “Logging in and Initializing the DR Series System”, and “Accessing iDRAC6/Idrac7 Using RACADM” for using iDRAC connection and initializing the appliance.
- 2 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 combination of “**root/calvin**”.
- 3 Launch the virtual console.



- 4 After the virtual console is open, log on to the system as user **administrator** with the password **St0r@ge!** (The "0" in the password is the numeral zero).

```
Ucarina release 1 (EAR-1.00.00) Build: 32850
Kernel 2.6.18-164.el5 on an x86_64

localhost login: administrator
Password: St0r@ge!
```

- 5 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:
```

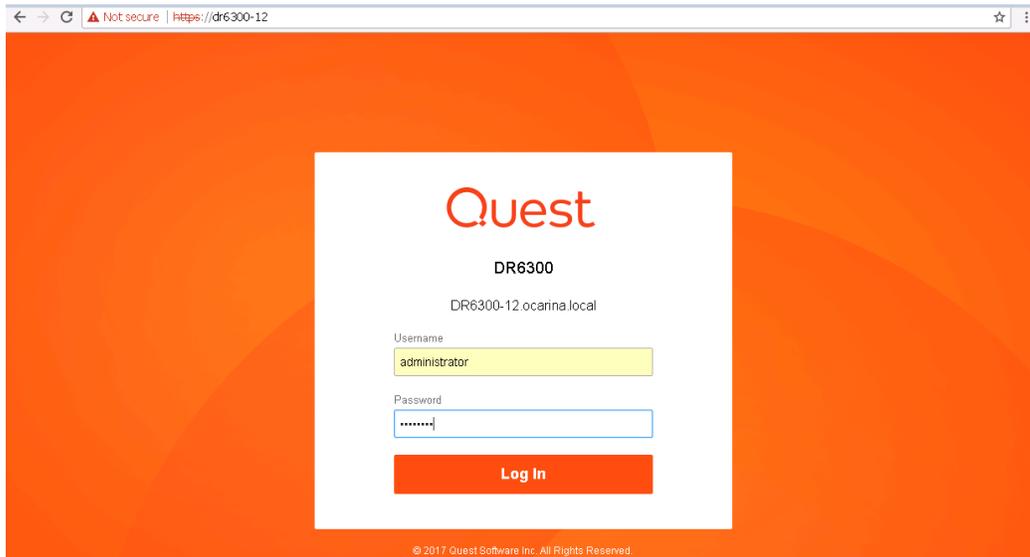
- 6 View the summary of preferences and confirm that it is correct.

```
=====
                          Setting IP Address with DHCP

IP Address                : DHCP
Network Mask               : DHCP
Default Gateway           : DHCP
DNS Suffix                 : DHCP
Primary DNS Server        : DHCP
Host Name                  : DR6300-12

Are the above settings correct (yes/no) ? █
```

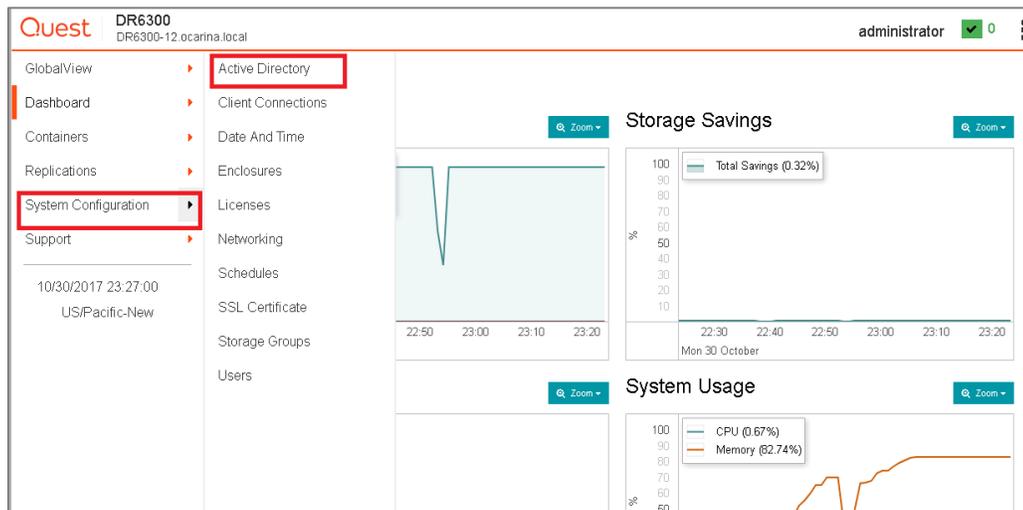
- 7 Log on to the DR Series system administrator console with the IP address with username **administrator** and password **St0r@ge!** (The “0” in the password is the numeral zero.).



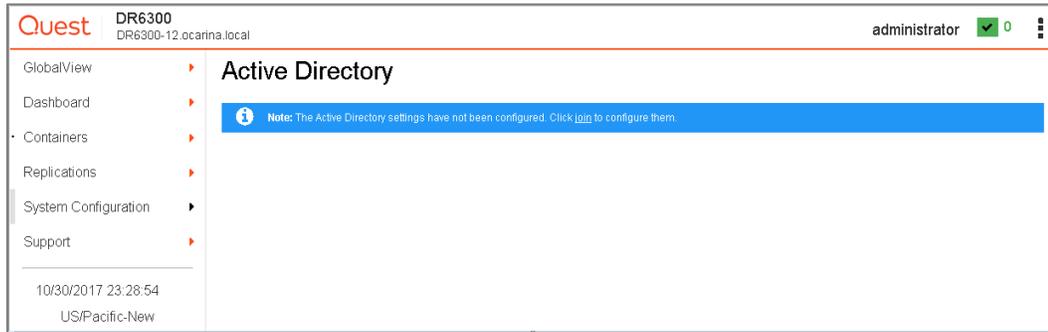
- 8 Join the DR Series System to Active Directory.

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

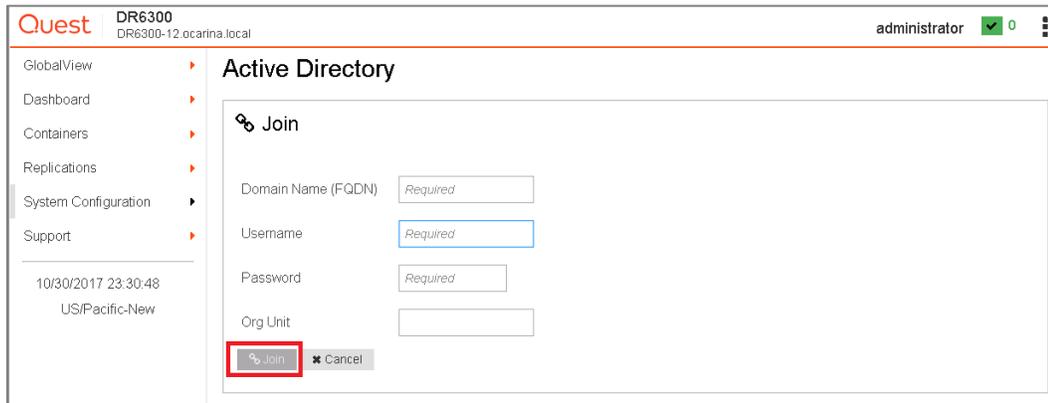
- a Select **System Configuration > Active Directory** from the left navigation area of the DR Series system GUI.



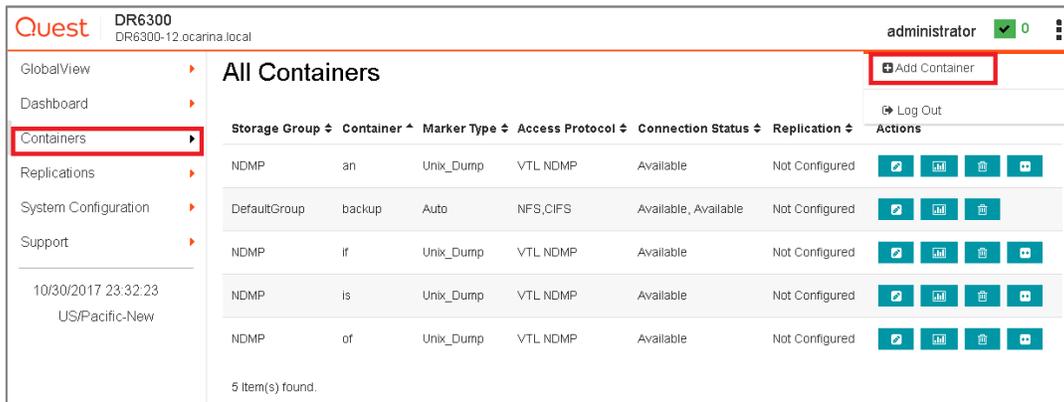
b Click the **Join** link.



c Enter your Active Directory credentials, and click **Join**.



9 Select **Containers** in the left navigation area of the DR Series system GUI, and then on the Action Menu in the upper right corner, click **Add Container**.



- Select the required Storage group, enter a **Container Name**, select the **NAS (NFS, CIFS)** from the Access Protocol drop down menu, and click **Next**

Quest DR6300 DR6300-12.ocarina.local administrator 0

GlobalView Dashboard Containers Replications System Configuration Support

10/30/2017 23:35:53 US/Pacific-New

All Containers

+ Add Container

Storage Group: DefaultGroup

Access Protocol: NAS (NFS, CIFS)

Container Name: sample

Previous Next Finish Cancel

- Select the protocols NFS and/or CIFS as required, select the Marker type as **HP Data Protector** from the drop down menu, and click **Next**.

i | **NOTE:** HP Data Protector supports both the CIFS and NFS protocols.

Quest DR6300 DR6300-12.ocarina.local administrator 0

GlobalView Dashboard Containers Replications System Configuration Support

10/30/2017 23:37:32 US/Pacific-New

All Containers

+ Add Container

Access Protocols: NFS CIFS

Marker Type: HP Data Protector

Previous Next Finish Cancel

- For NFS, select the preferred client access credentials and click **Next**.

Quest DR6300 DR6300-12.ocarina.local administrator 0

GlobalView Dashboard Containers Replications System Configuration Support

10/30/2017 23:39:45 US/Pacific-New

All Containers

+ Add Container

NFS Options: Read Write Access Read Only Access

Map Root To: Root

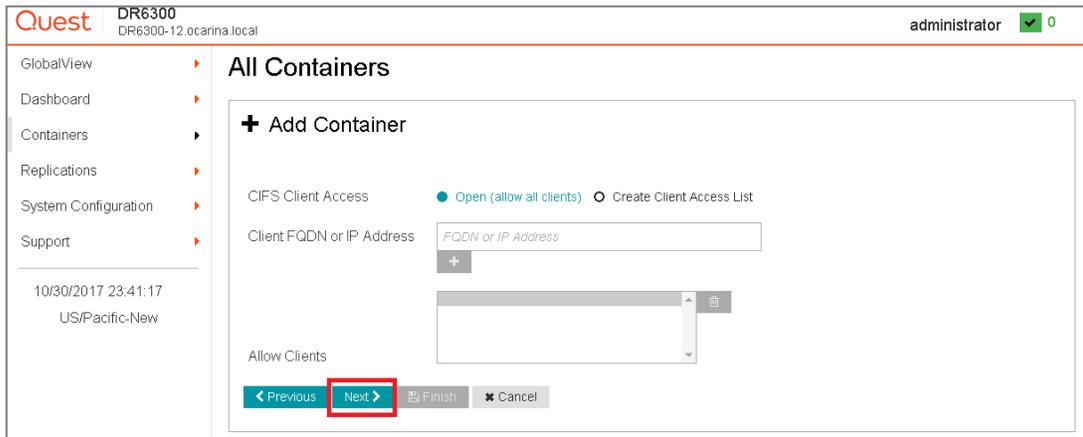
Client Access: Open (allow all clients) Create Client Access List

Client FQDN or IP Address: FQDN or IP Address

Allow Clients:

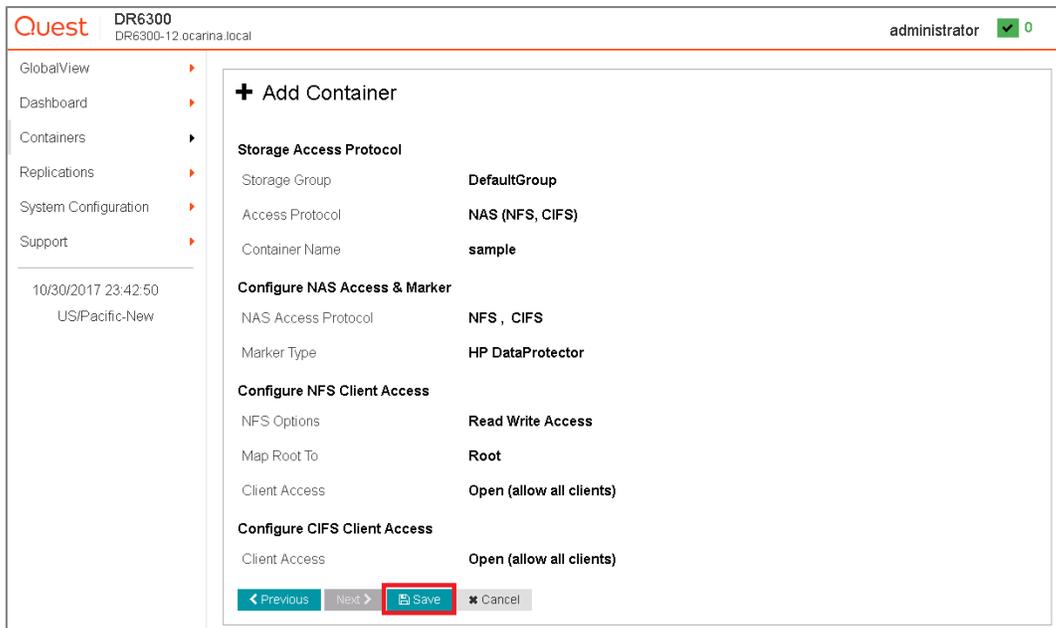
Previous Next Finish Cancel

13 For CIFS, select the Client Access credentials and click **Next**.



NOTE: For improved security, Quest recommends adding IP addresses for the following (Not all environments will have all components): Backup console (HP Data Protector Server, HP Data Protector Clients)

14 Check the configuration summary and click **Save**.



15 Confirm the container is successfully created.

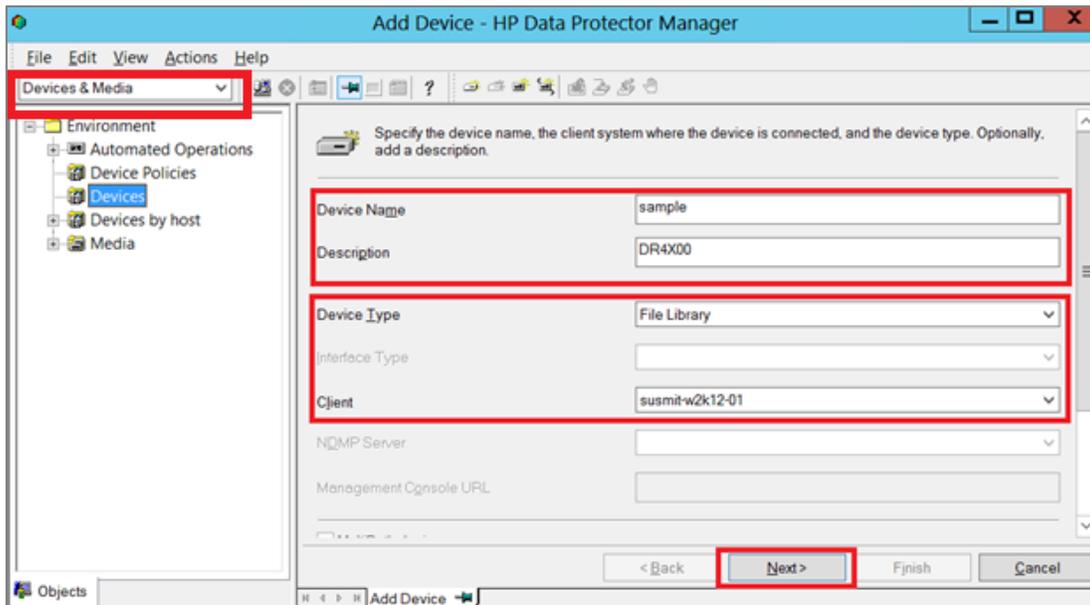
The screenshot shows the Quest DR6300 web interface. At the top, there is a navigation menu on the left with options like GlobalView, Dashboard, Containers, Replications, System Configuration, and Support. The main content area displays a success message: "Success: Successfully added container 'sample'. Container is being established. Information updates may be briefly delayed until the process is fully completed." Below this is a table titled "All Containers" with columns for Storage Group, Container, Marker Type, Access Protocol, Connection Status, Replication, and Actions. The table lists several containers, with the 'sample' container highlighted by a red box. The 'sample' container has a Storage Group of 'DefaultGroup', Marker Type of 'HP_DataProtector', Access Protocol of 'NFS,CIFS', and Connection Status of 'Available, Available'. At the bottom of the table, it indicates "6 item(s) found. Display 10 elements per page."

| Storage Group | Container | Marker Type | Access Protocol | Connection Status | Replication | Actions |
|---------------|-----------|------------------|-----------------|----------------------|----------------|----------------------------------|
| NDMP | an | Unix_Dump | VTL NDMP | Available | Not Configured | [Edit] [Refresh] [Delete] [Info] |
| DefaultGroup | backup | Auto | NFS,CIFS | Available, Available | Not Configured | [Edit] [Refresh] [Delete] |
| NDMP | if | Unix_Dump | VTL NDMP | Available | Not Configured | [Edit] [Refresh] [Delete] [Info] |
| NDMP | is | Unix_Dump | VTL NDMP | Available | Not Configured | [Edit] [Refresh] [Delete] [Info] |
| NDMP | of | Unix_Dump | VTL NDMP | Available | Not Configured | [Edit] [Refresh] [Delete] [Info] |
| DefaultGroup | sample | HP_DataProtector | NFS,CIFS | Available, Available | Not Configured | [Edit] [Refresh] [Delete] |

Setting up HP Data Protector

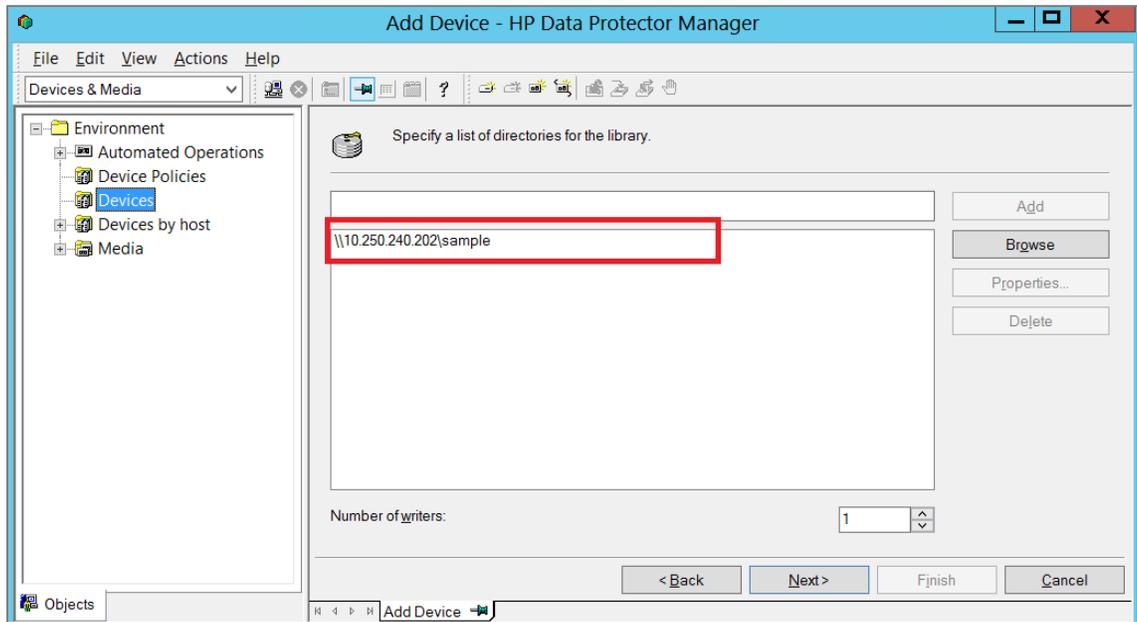
Backing up in the Windows environment

- 1 Open **HP Data Protector Manager** and select **Devices & Media** menu.
- 2 Right-click **Devices** and choose **Add Device**.
- 3 In the next window, specify the **Device Name** and **Description** that identifies the **File Library Device**.
- 4 Select **File Library** for the **Device Type**, select the required **Client**, and click **Next**.

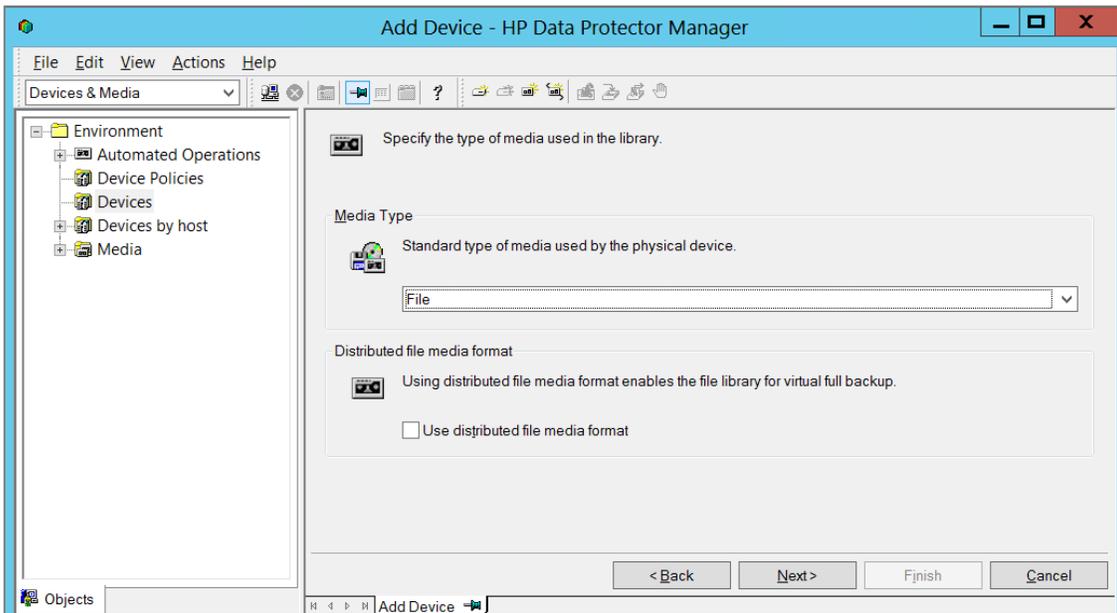


NOTE: The Windows service account for HP Data Protector requires appropriate permissions to the DR container share for the step below to complete successfully. See **Appendix A** for setting up the HP Data Protector service account correctly. This should be done before the next step.

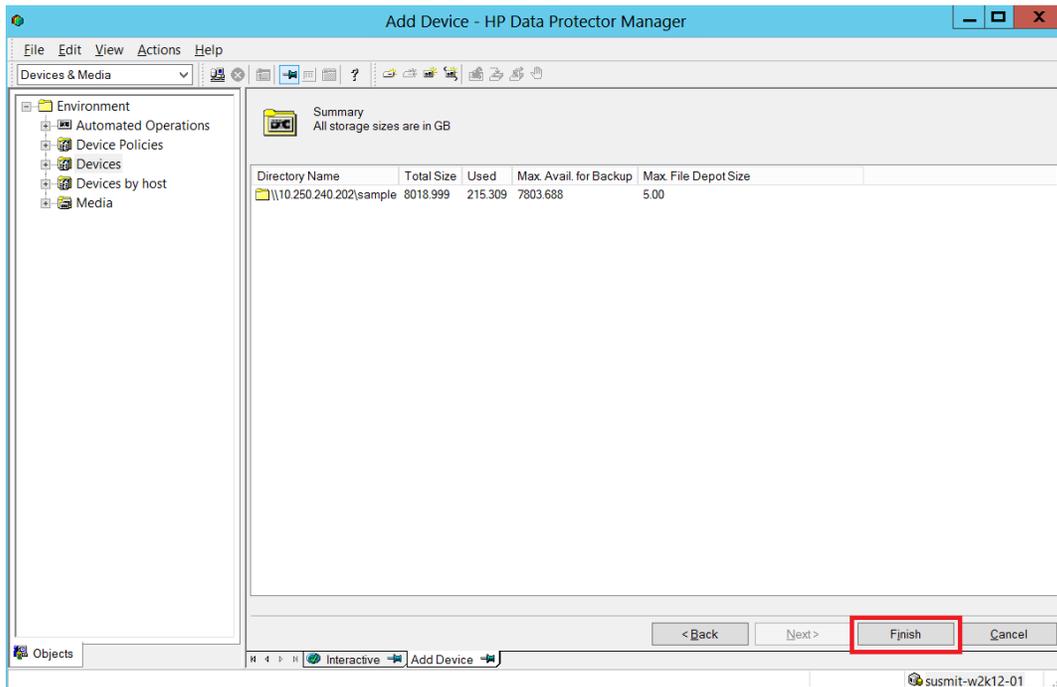
- 5 In the next window, enter the path to the library, which will be the UNC path to the DR Series container share as described below.
 - a Specify a list of directories for the library. You can also specify the **number of writers** for the library, it defaults to 1.
 - b Click **Properties** to assign proper values to the file library parameters, including Maximal File Size.
 - c Click **Next**.



- 6 Verify the **Media Type** default is **File**, and click **Next**.



- 7 In the **Summary** window, verify that it shows the total physical storage size of that particular File Library Device on the DR container, and click **Finish**.



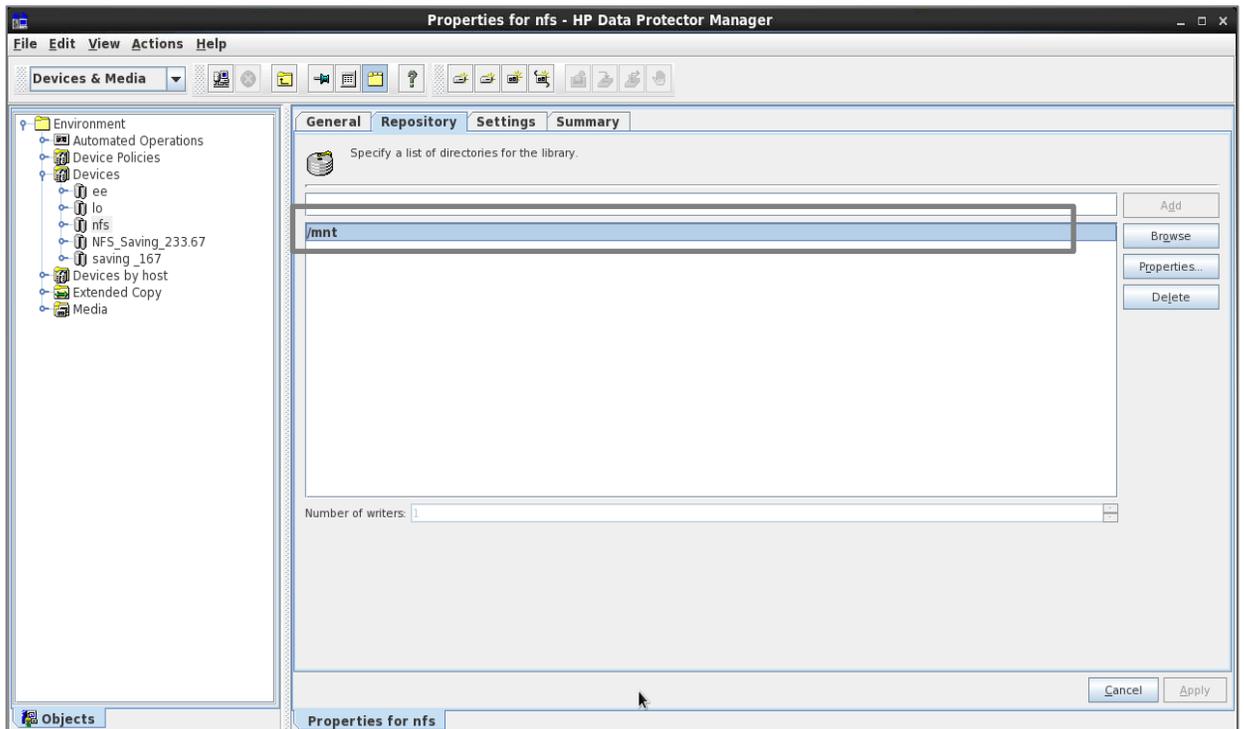
- 8 In the next windows, click **Close**.

Backing up in the Unix/Linux environment

i **NOTE:** Make sure that you can mount/verify the NFS share from the UNIX/Linux client system. See **Appendix B** for information on how to mount/verify the NFS share.

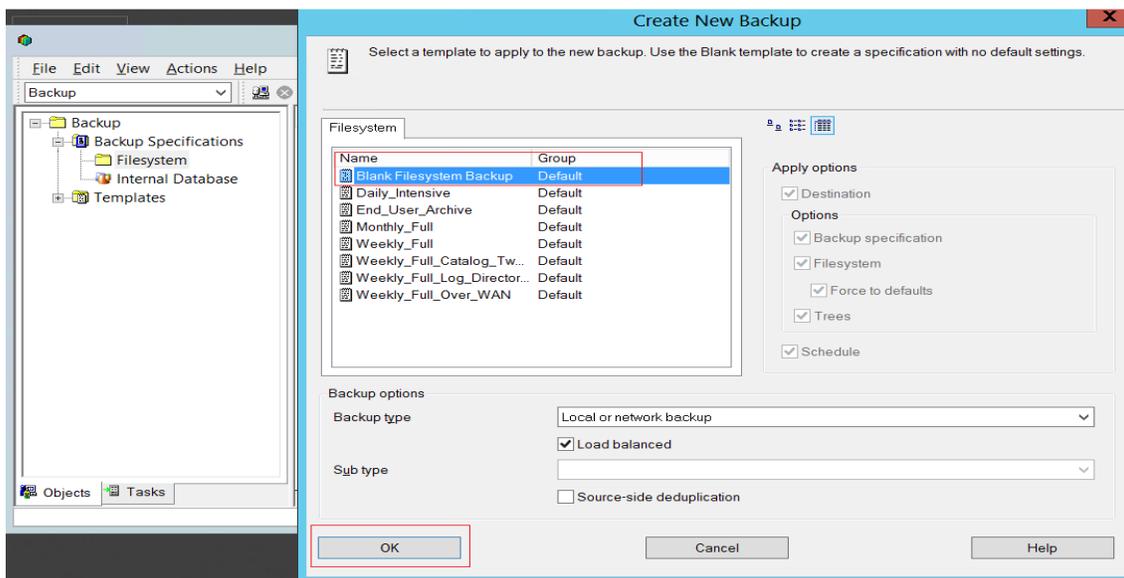
The procedure for the Unix/Linux Environment is very similar to the procedure for the Windows environment. One difference is that in **Step#3**, you need to enter the UNIX path of the DR container export is used instead of a UNC path, as described below.

For other details, please refer to the preceding steps for backing up in the Windows environment.

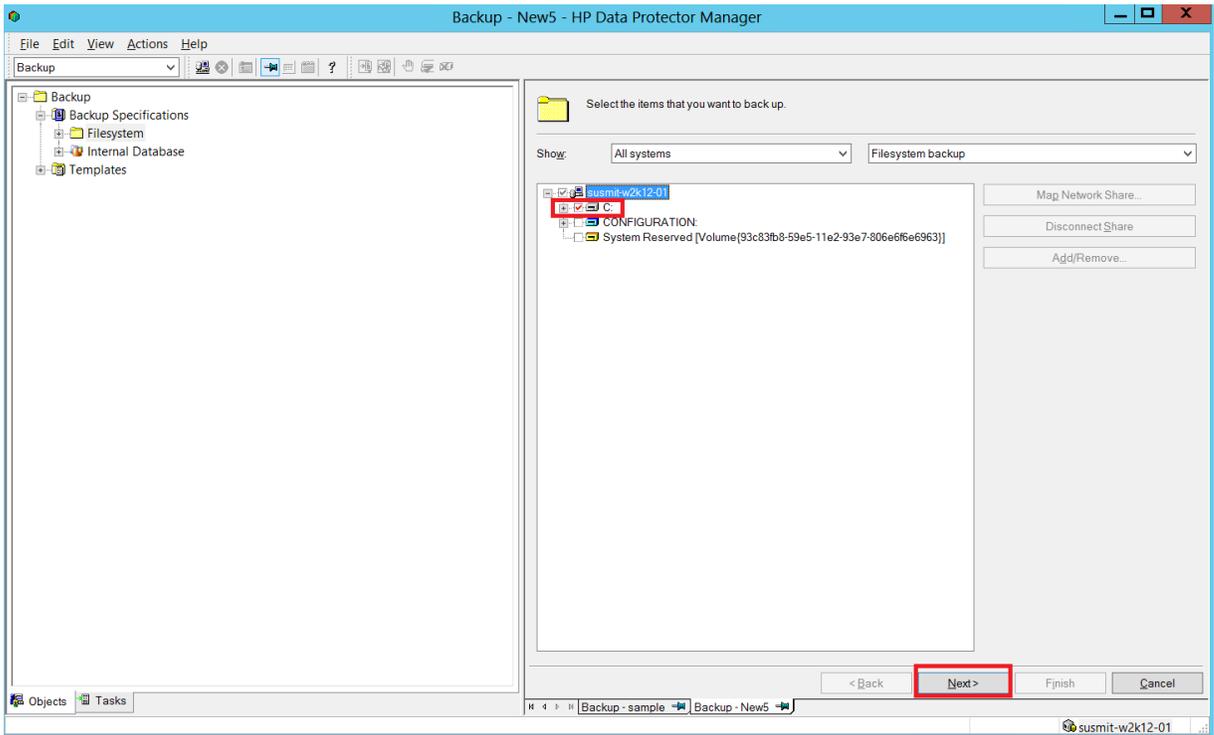


Creating a new backup job with the DR Series system as the target

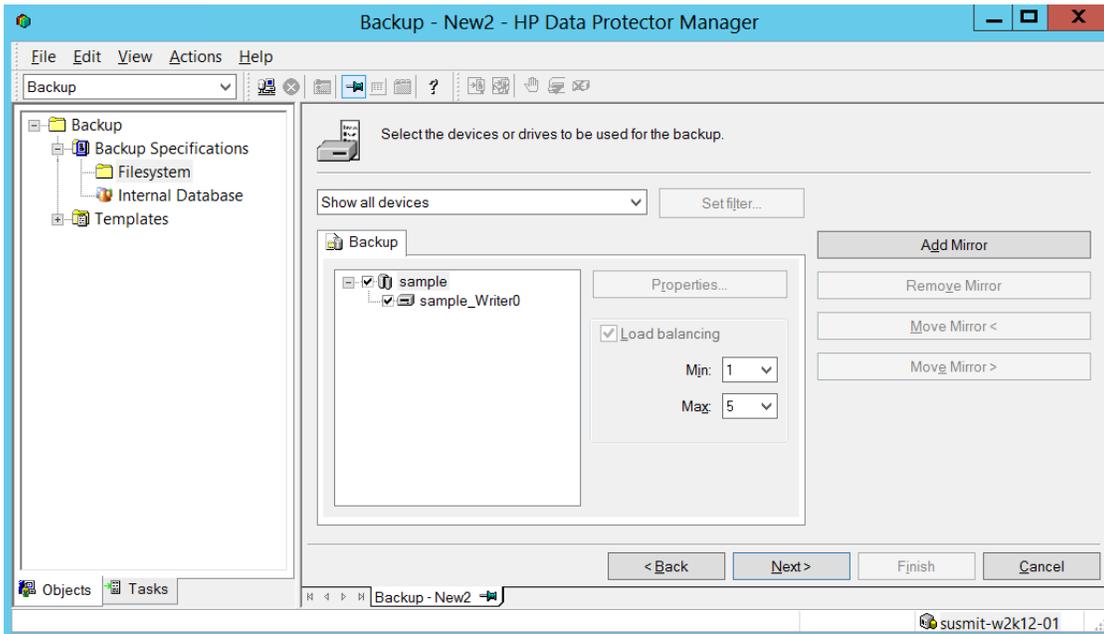
- 1 In the **Context List** drop-down menu, click **Backup**.
- 2 In the **Scoping Pane**, expand **Backup** and then click **Backup Specifications**.
- 3 In the expanded sub-tree view, right-click the **Filesystem** item and select **Add Backup**.
- 4 Select the **Blank File System Backup** template and click **OK**.



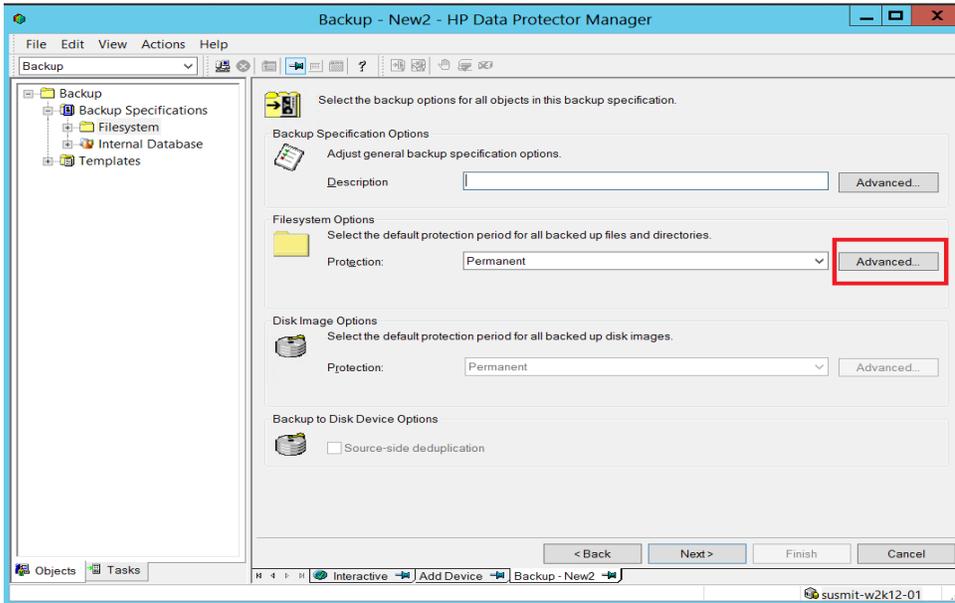
- 5 Check any source data set that needs to be backed up, (in this example, the entire local “C:” drive is selected) and then click **Next**.



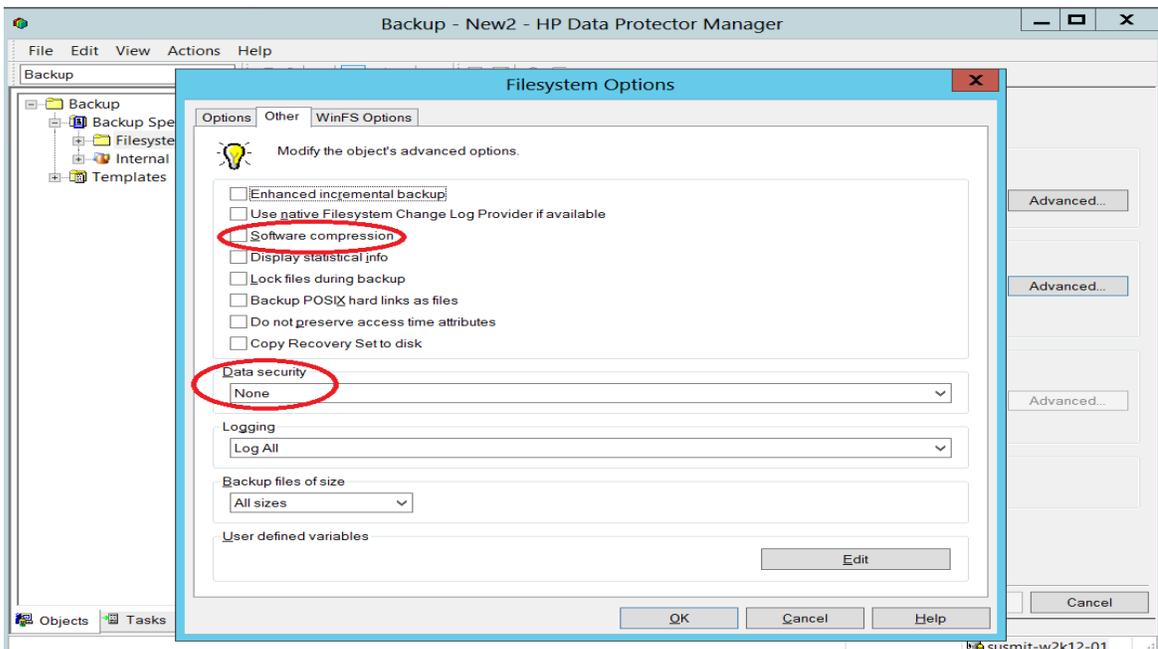
- 6 Select the devices or drives to be used as the backup target (in this example, it is the DR Series container share/export created in the previous section), and click **Next**.



- 7 Check and verify the **Backup Specification** Options through the **Advanced** button. Then in **Filesystem Options** section, click on **Advanced**.



- 8 In **Filesystem Options**, click the **Other** tab, make sure **Software compression** is not selected, and that **Data security** is set to **None**.

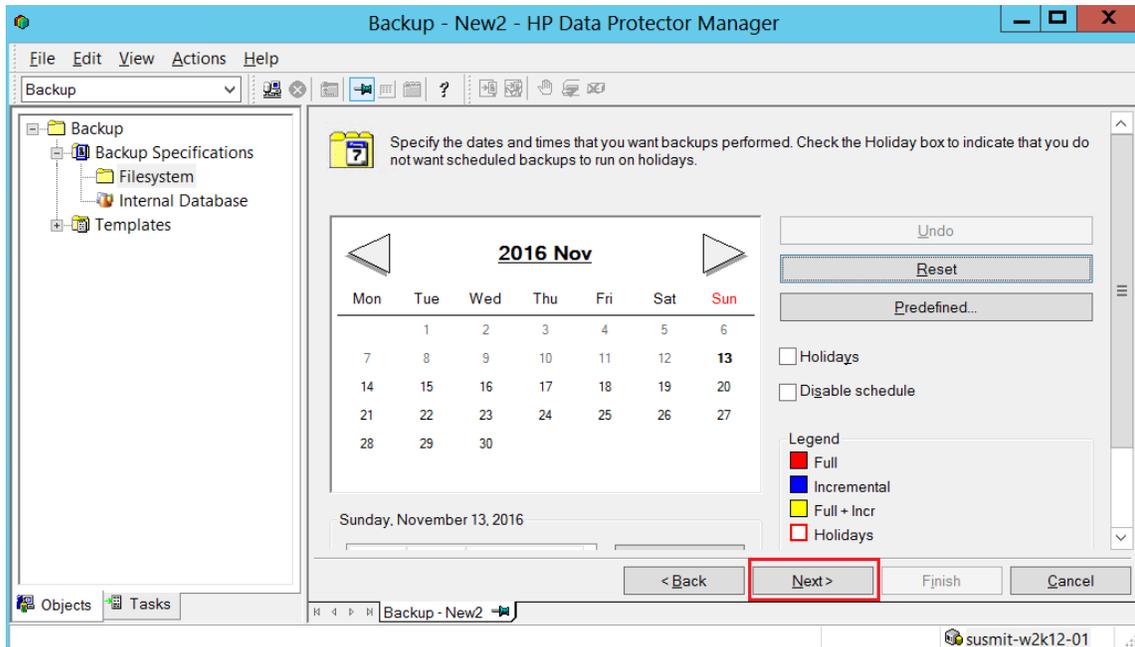




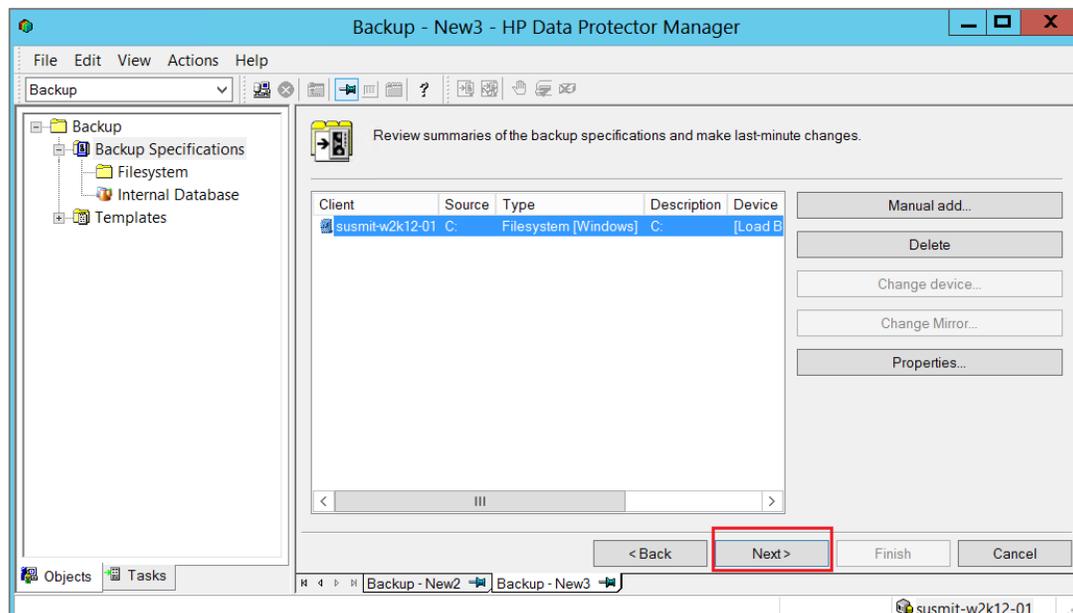
NOTE: Always disable **'Software compression'**, as the DR Series system has compression built-in and does not require compression on HP Data Protector. In general, additional data compression on backup software can have a negative impact on total savings in the DR Series System.

Set **Data security** to **none**, as enabling encryption before the data stream is sent to the DR Series System device will make the data unable to be deduplicated. This can put a significant negative impact on the total savings of the DR Series system.

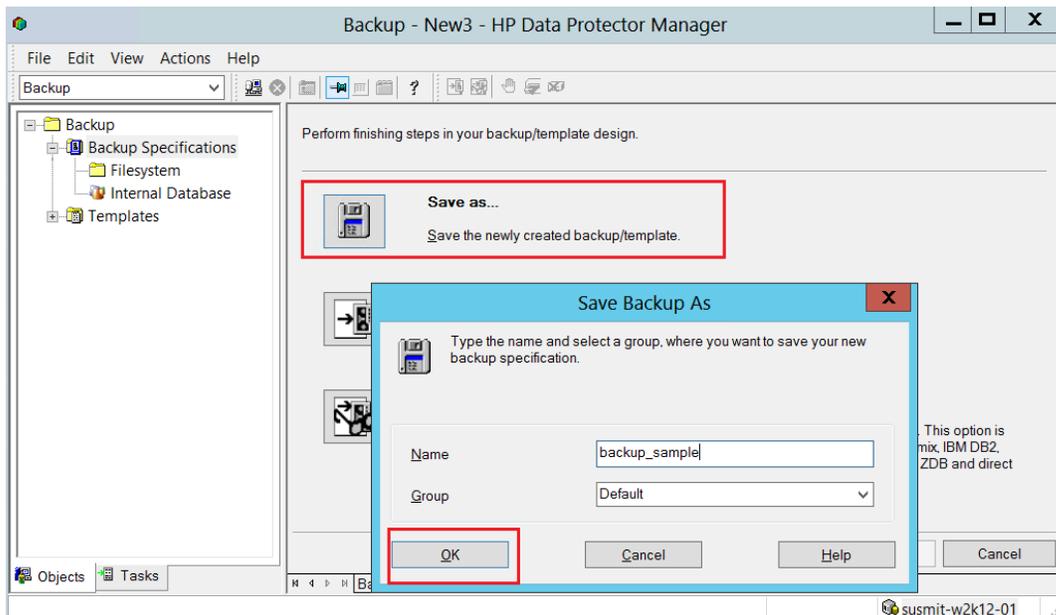
9 Define the Backup Job Schedule options and click **Next**.



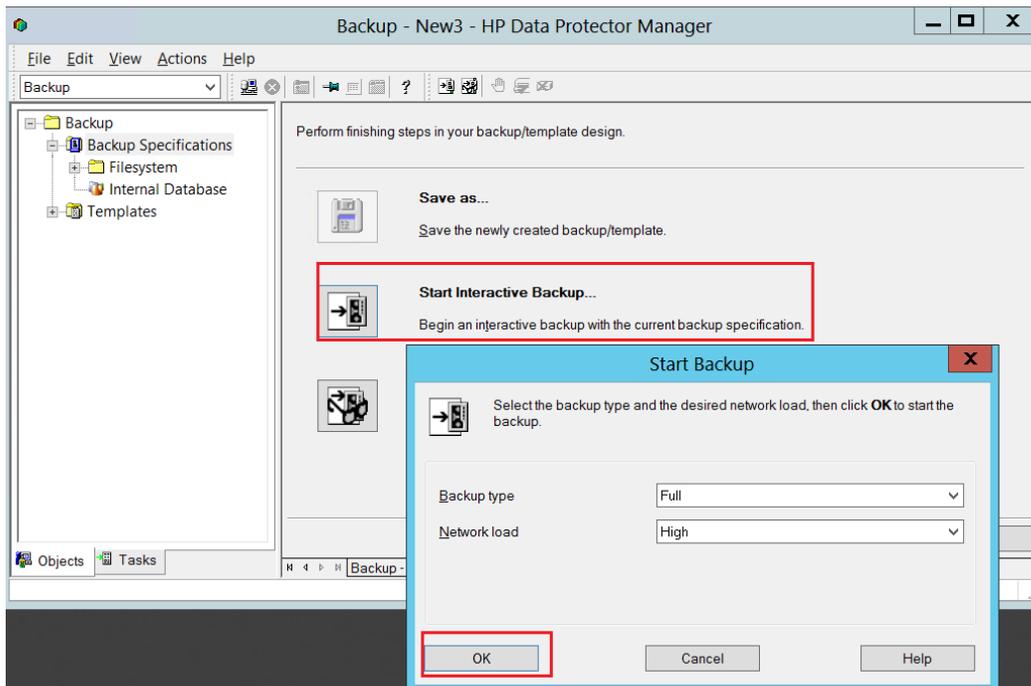
10 Review the Backup Job Summary, and click **Next**.



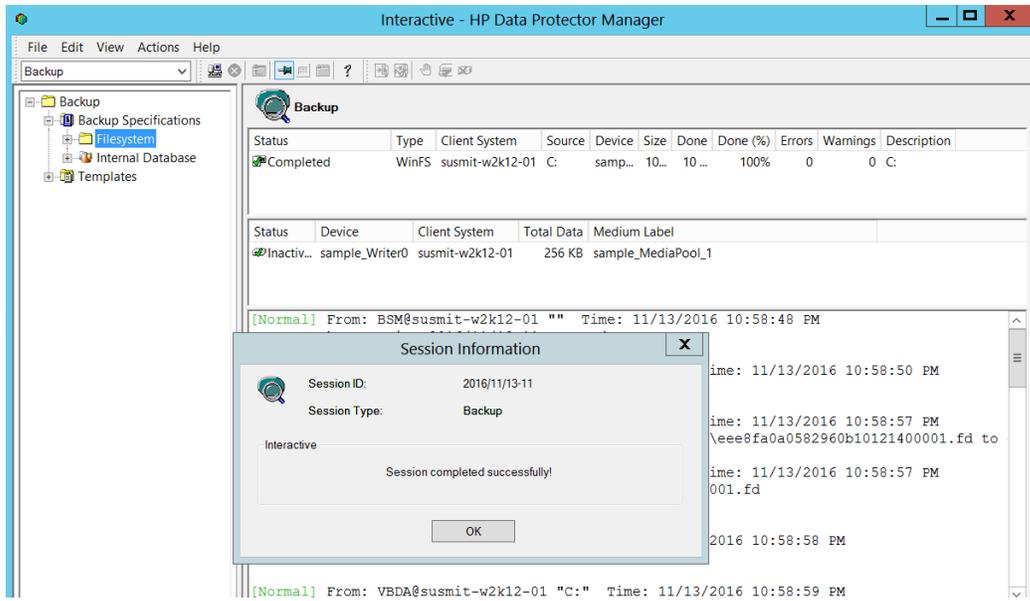
11 Specify a name for the Backup Job, and click **Save As** to save the newly configured backup specification.



12 (Optional) Click **Start Interactive Backup** to run the backup, and, when the **Start Backup** window opens, click **OK** to start the backup.



The **Backup** window displays the progress of the backup session. The Session Information window will tell you when the backup is completed.



Setting up DR Series native replication and restoring from a target container

Building a replication relationship between DR Series systems

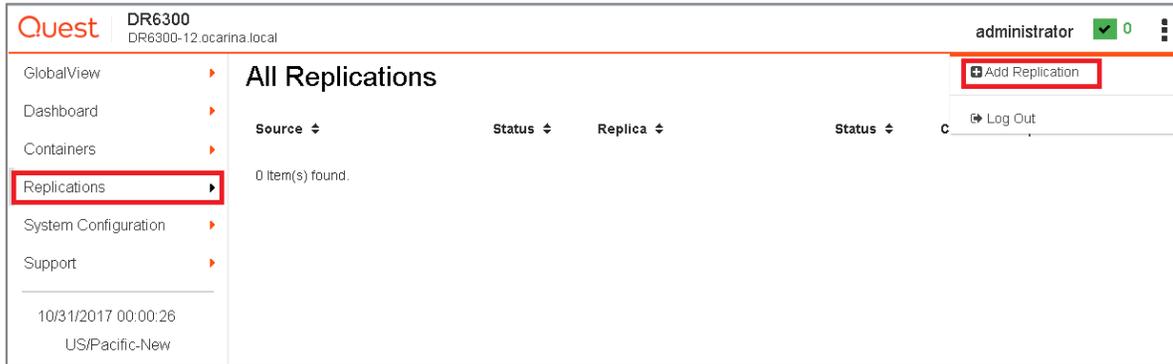
i **NOTE:** The assumption is that on both the source and target DR, a container is already created for each of them. The target container should not be used by anything else and is empty, with the same **Connection Type** as the source container.

- 1 Create a target container on the target DR Series system.

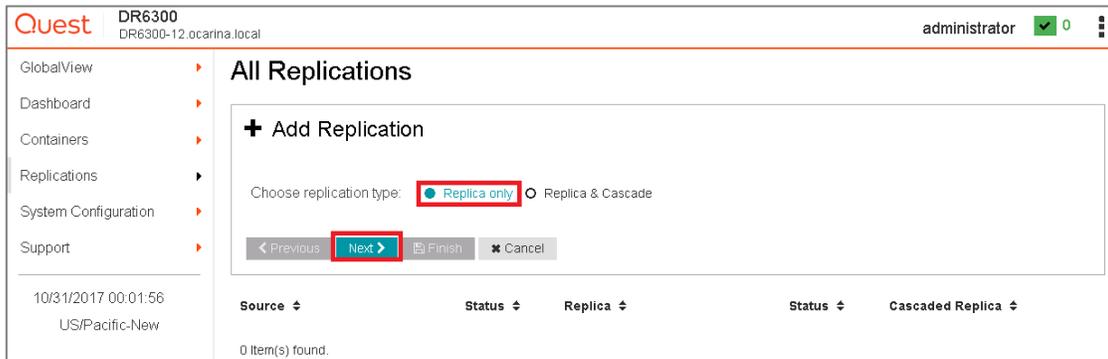
The screenshot shows the Quest DR4300 web interface. The top navigation bar includes the Quest logo, system ID 'DR4300', host 'DR4300-09.ocarina.local', and user 'administrator' with a green checkmark and '0' notifications. A left sidebar contains navigation links: GlobalView, Dashboard, Containers, Replications, System Configuration, and Support. The main content area is titled 'All Containers' and displays a table with the following columns: Storage Group, Container, Marker Type, Access Protocol, Connection Status, Replication, and Actions. The table contains six rows of container data. The row with Storage Group 'DefaultGroup', Container 'rep-target', Marker Type 'HP_DataProtector', Access Protocol 'NFS,CIFS', and Connection Status 'Available, Available' is highlighted with a red rectangular box. Below the table, it indicates '6 item(s) found' and a display setting of '10 elements per page'.

| Storage Group | Container | Marker Type | Access Protocol | Connection Status | Replication | Actions |
|---------------|------------|------------------|-----------------|----------------------|----------------|-----------------------------------|
| DefaultGroup | backup | Auto | NFS,CIFS | Available, Available | Not Configured | [Info] [Refresh] [Delete] |
| NDMP | edc | Unix_Dump | VTL NDMP | Available | Not Configured | [Info] [Refresh] [Delete] [Pause] |
| NDMP | qaz | Unix_Dump | VTL NDMP | Available | Not Configured | [Info] [Refresh] [Delete] [Pause] |
| DefaultGroup | rep-target | HP_DataProtector | NFS,CIFS | Available, Available | Not Configured | [Info] [Refresh] [Delete] |
| NDMP | rtv | Unix_Dump | VTL NDMP | Available | Not Configured | [Info] [Refresh] [Delete] [Pause] |
| NDMP | wsx | Unix_Dump | VTL NDMP | Available | Not Configured | [Info] [Refresh] [Delete] [Pause] |

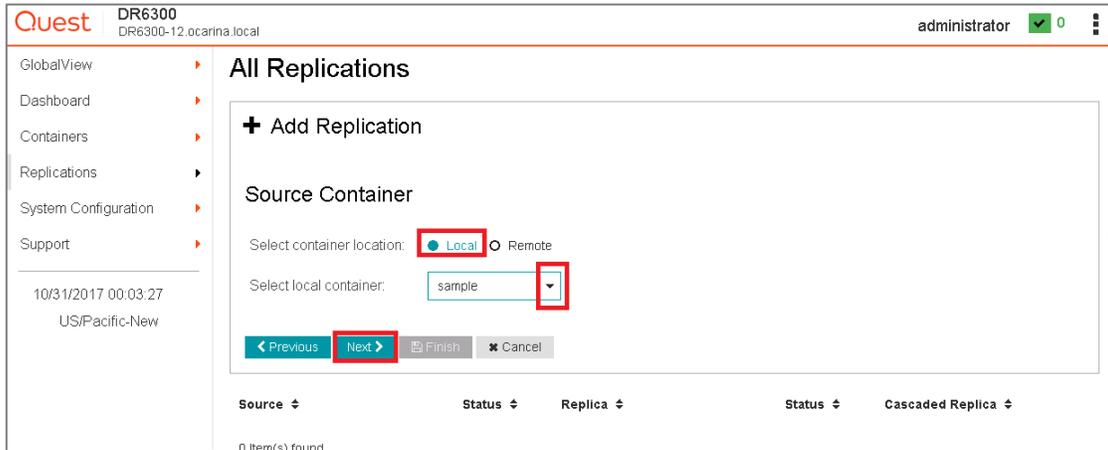
- 2 On the source DR Series system, select **Replications** from the left navigation menu, and, on the Actions menu, click **Add Replication**.



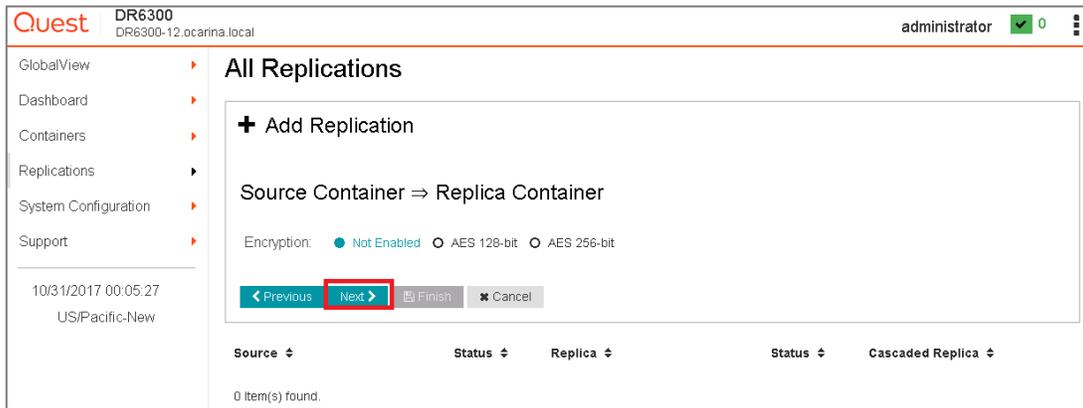
- 3 Select the type of Replication and click **Next**.



- 4 Select the source container to be replicated, and click 'Next'

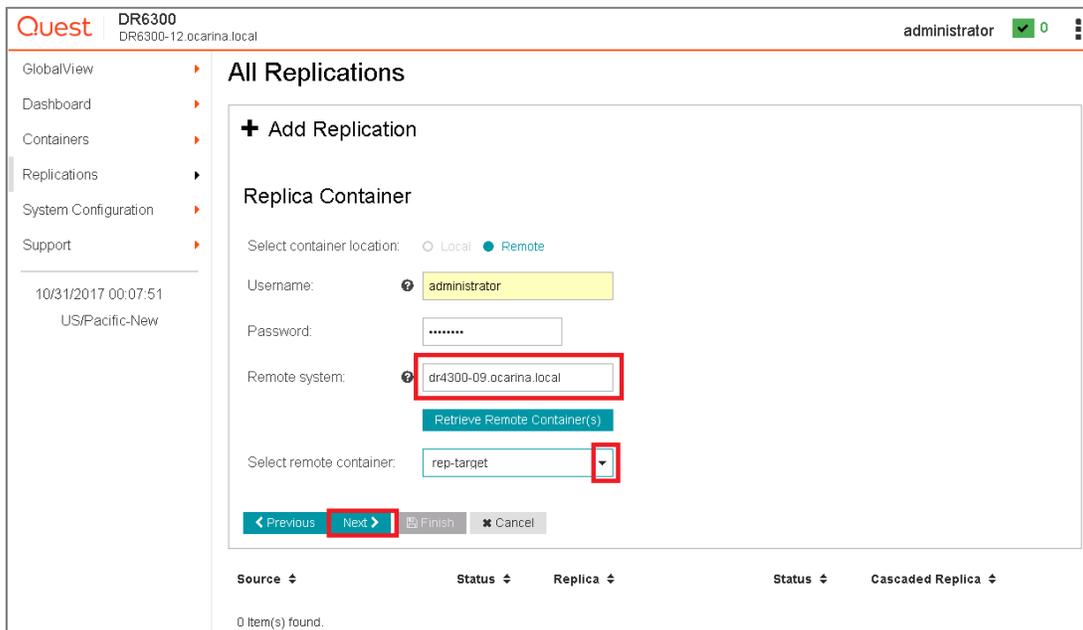


- 5 Select an encryption mode if required, and click **Next**.

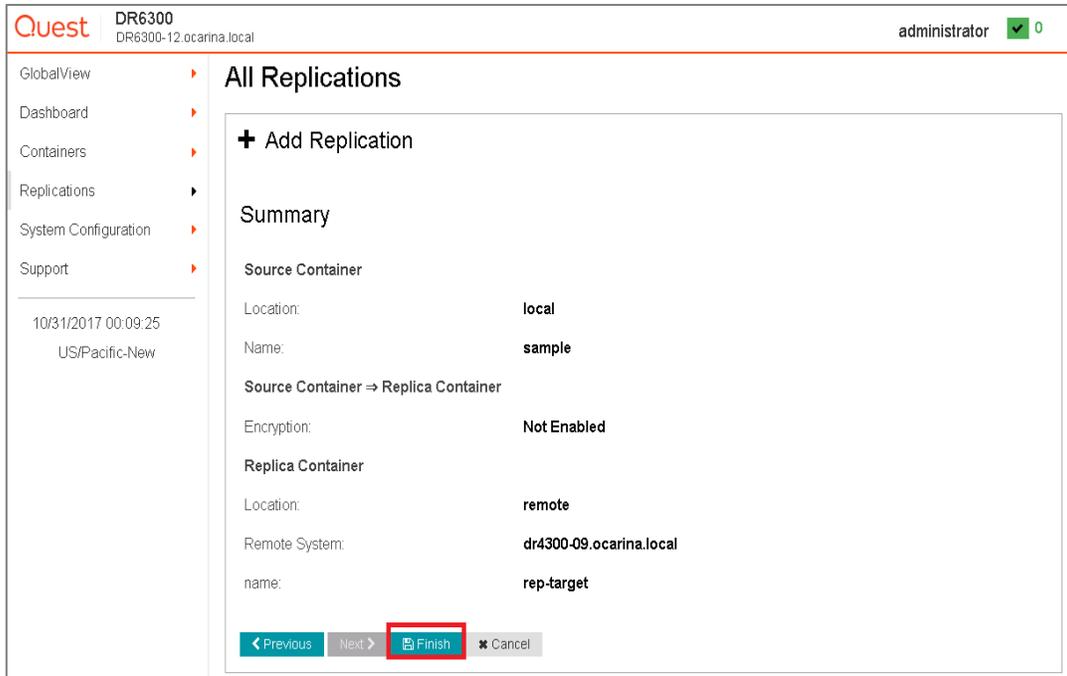


- 6 Select **Container from remote system**, enter the Target DR related information, click **Retrieve Containers**, select the populated target container from the list, and click **Create Replication**.

NOTE: Enter credentials to authenticate to the target DR (default is "Administrator/St0r@ge!"), click **Retrieve Containers**, and select the target container in the list.



- 7 Verify the summary and click **Finish**.



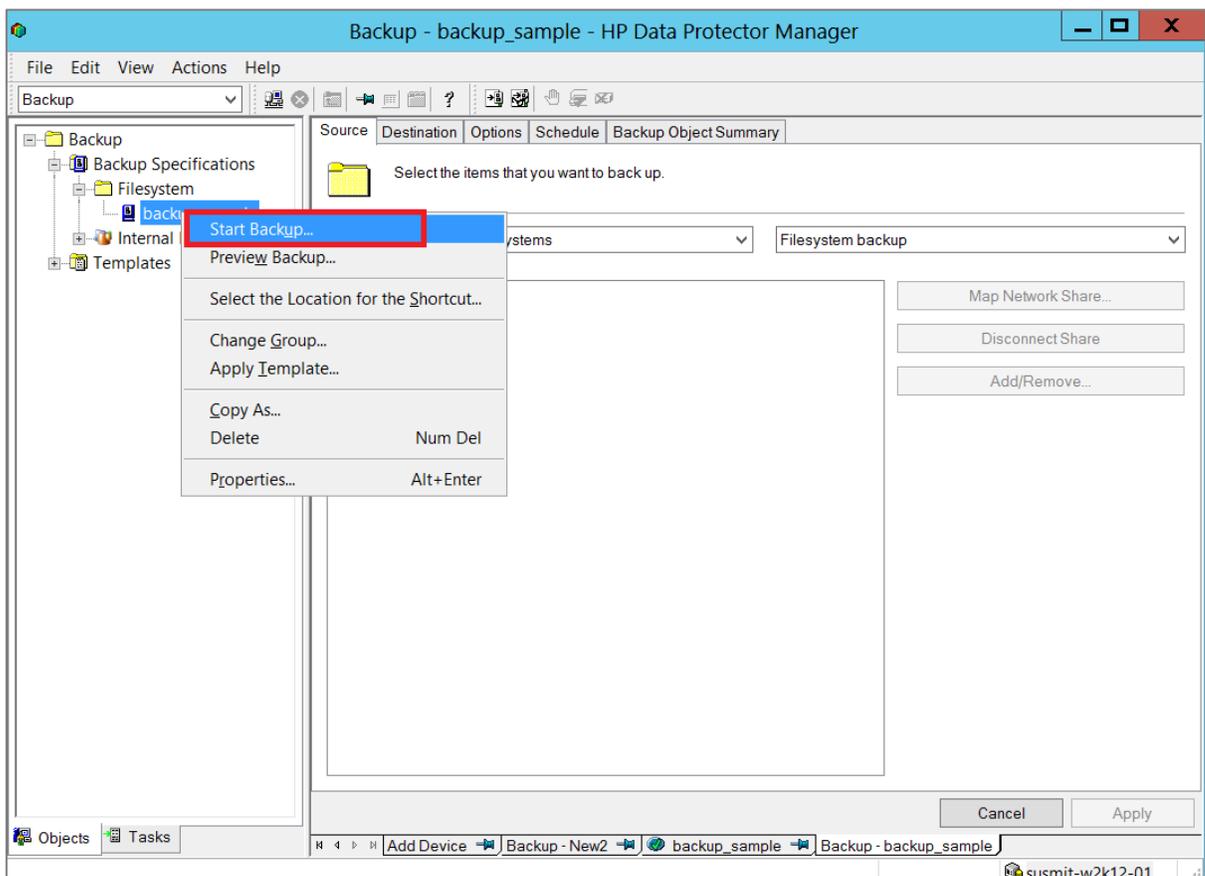
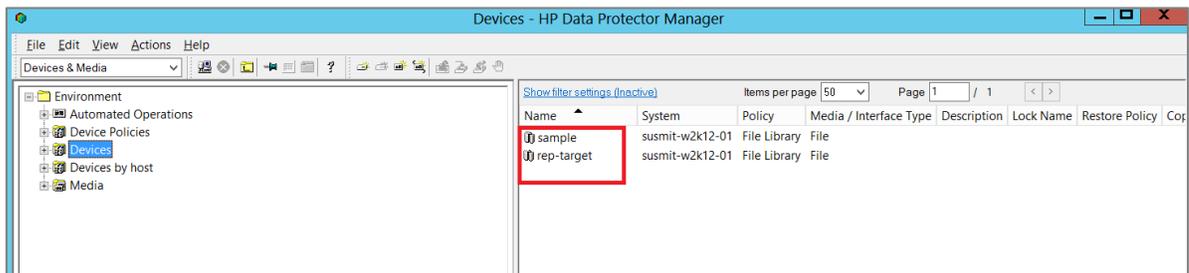
- Verify that the replication is created successfully and make sure the **Status checkbox** is marked for the replication session.



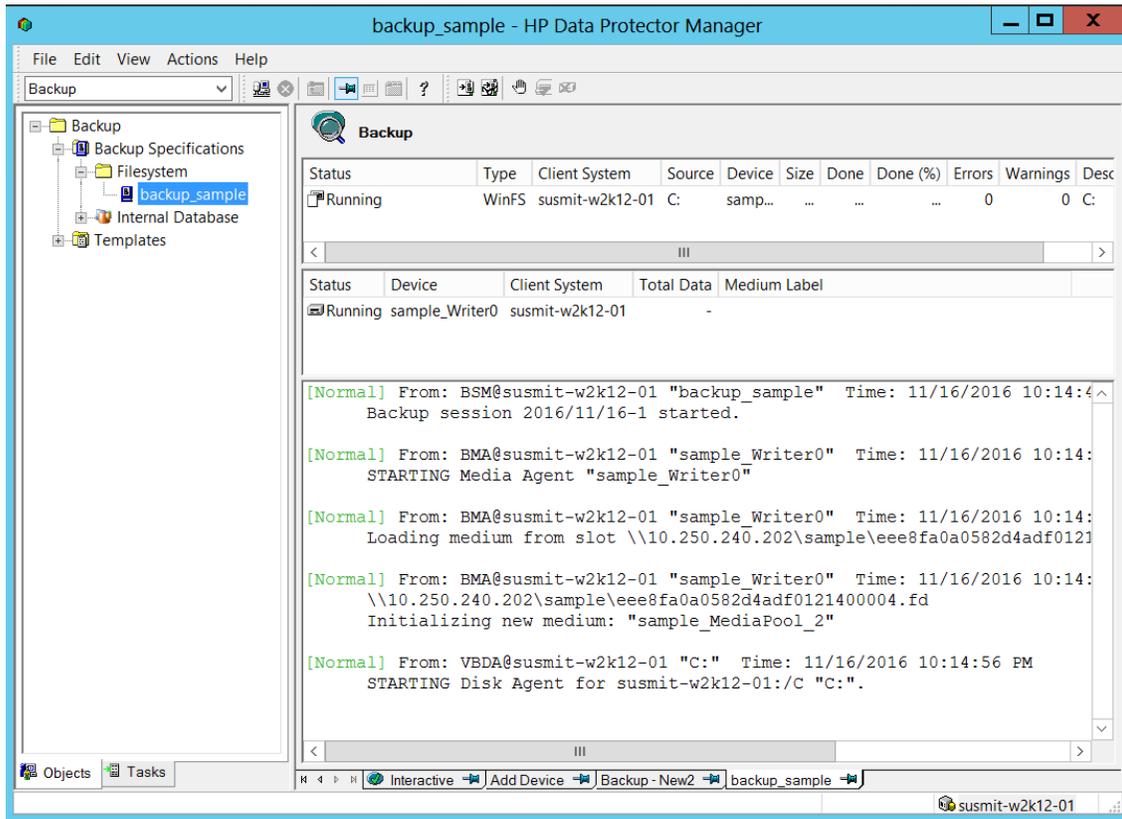
Running backup to the source DR Series system (Optional)

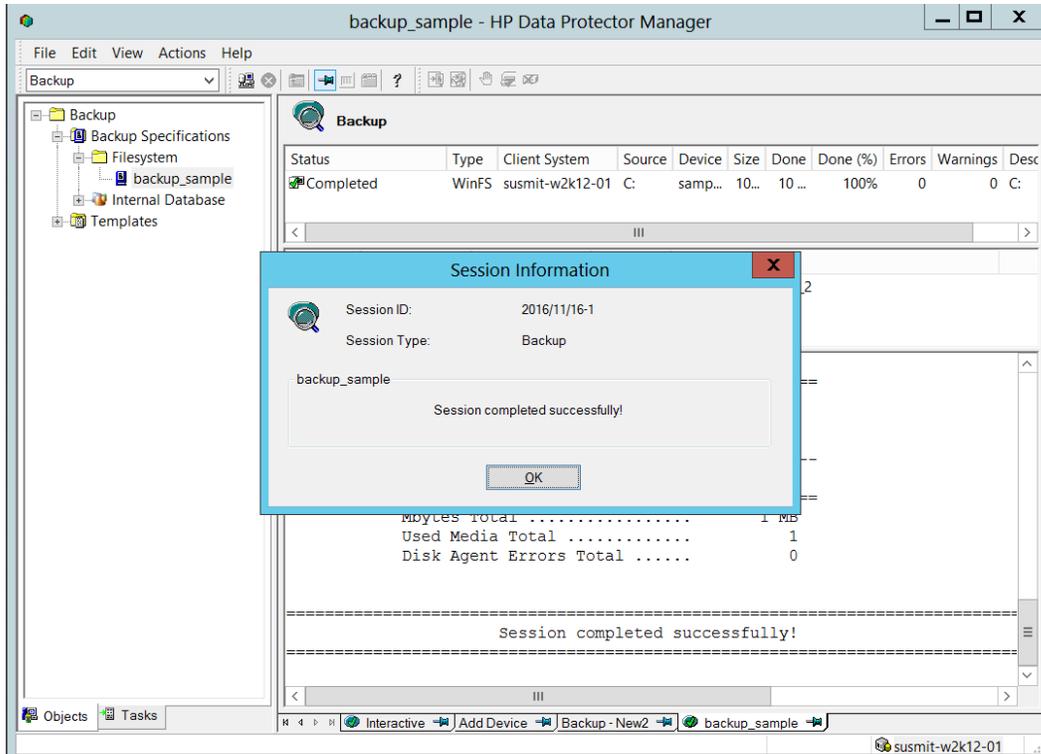
This is needed only when there is no backup data on the source DR container.

- 1 Add both source DR and target DR as Devices on HP DP, create a New Backup Job with source DR as the Target.



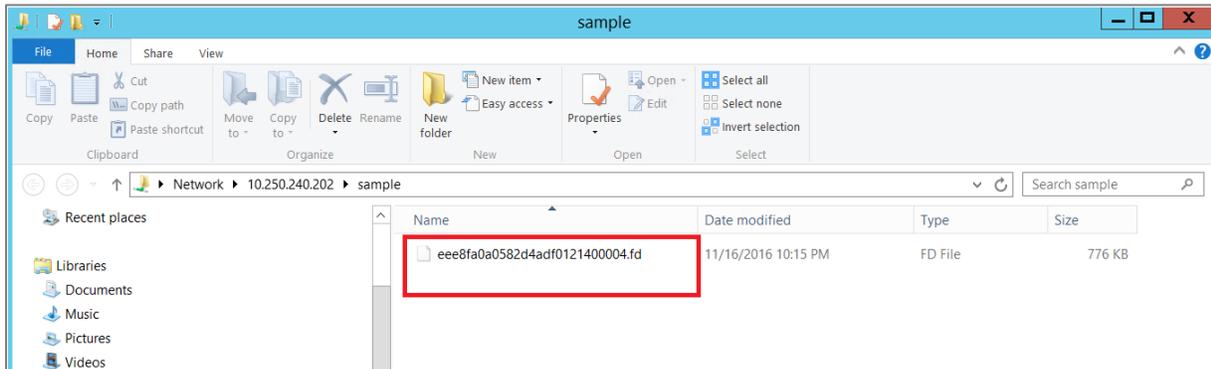
- In the **Start Backup** window, click **OK** to start the backup using the appropriate settings, and monitor job status.



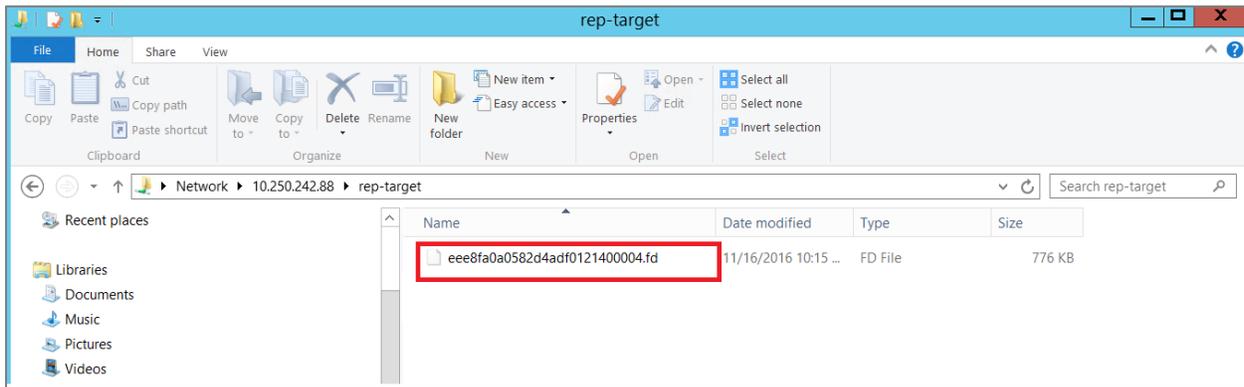


When the backup job is completed, HP Data Protector creates backup files using the suffix **.fd** on source DR, and the **.fd** files will be replicated to the target DR, as shown below.

Source DR:

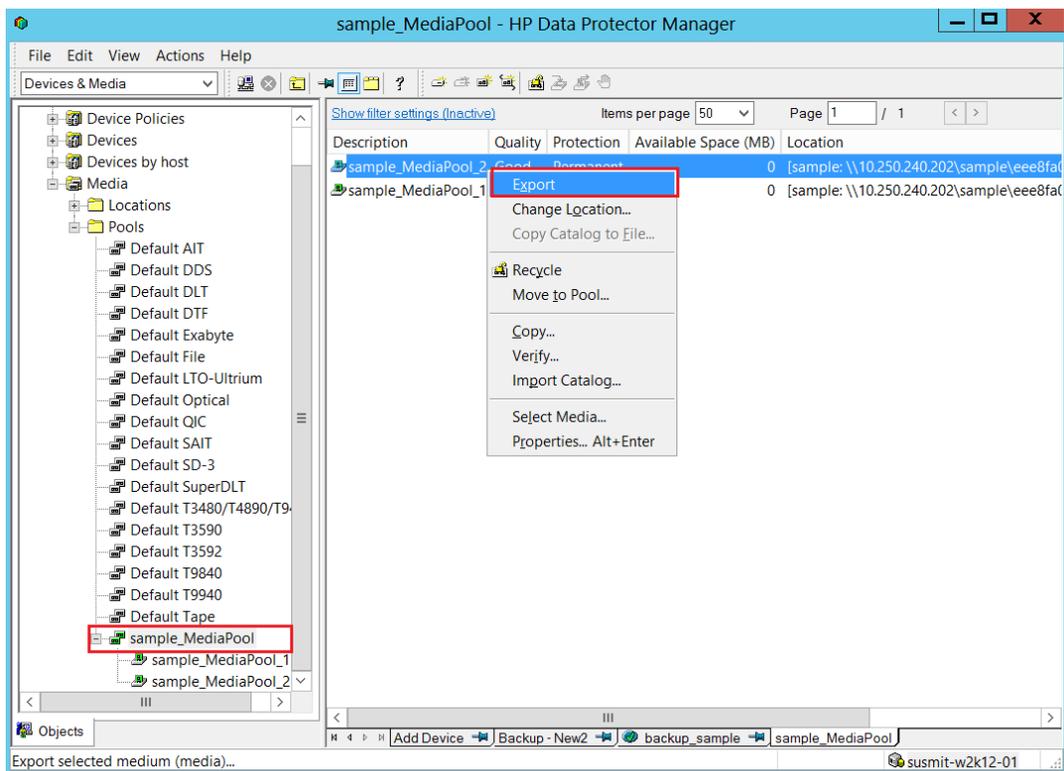


Target DR:



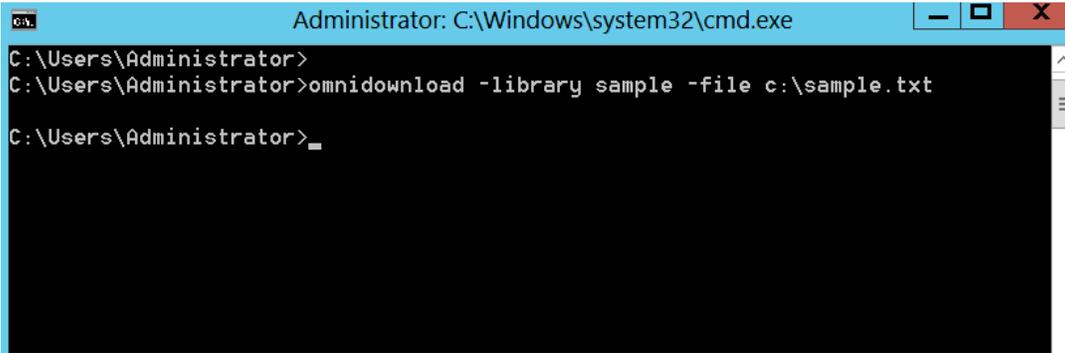
Preparing the replication target for restore

- 1 In HP Data Protector, go to Devices & Media > Media > Pools, right-click the Media Pool associated with the source container device and the backup set that needs to be restored, and click **Export**.



i | **NOTE:** If the media pool is protected and cannot be exported, you should perform **Recycle** before **Export**

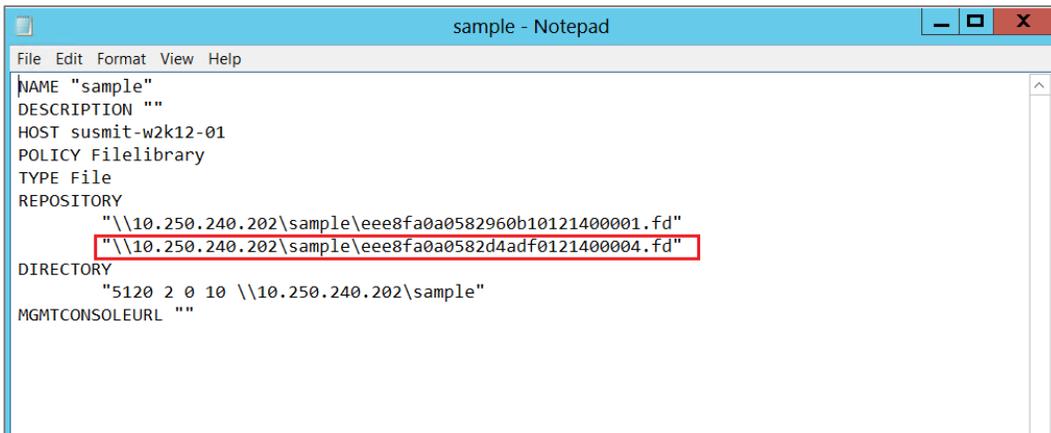
- 2 Open the HP Data Protector CLI console, and use the command utility **"omnidownload"** to download the source container library configuration from IDB.



```
Administrator: C:\Windows\system32\cmd.exe
C:\Users\Administrator>
C:\Users\Administrator>omnidownload -library sample -file c:\sample.txt
C:\Users\Administrator>
```

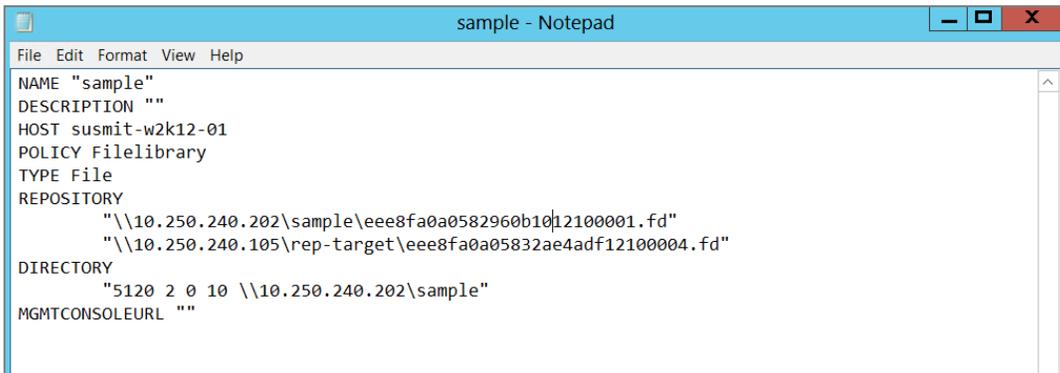
i | **NOTE:** Refer to Appendix C for information about how to use the command **"omnidownload"**.

- 3 Edit the file, modify or add the object information to point to the target DR Series system, and save this file.



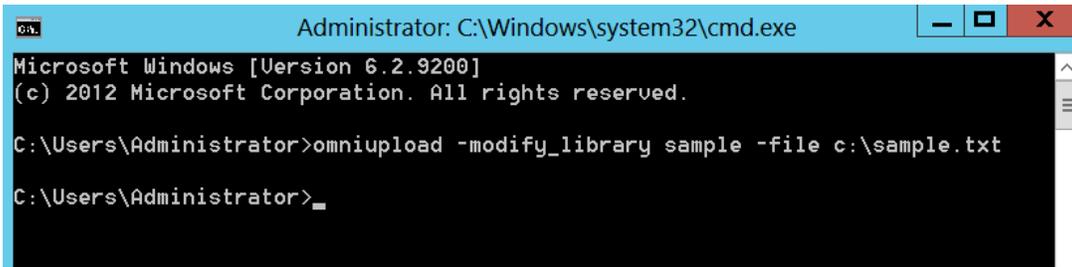
```
sample - Notepad
File Edit Format View Help
NAME "sample"
DESCRIPTION ""
HOST susmit-w2k12-01
POLICY Filelibrary
TYPE File
REPOSITORY
  "\\10.250.240.202\sample\eee8fa0a0582960b10121400001.fd"
  "\\10.250.240.202\sample\eee8fa0a0582d4adf0121400004.fd"
DIRECTORY
  "5120 2 0 10 \\10.250.240.202\sample"
MGMTCONSOLEURL ""
```

- 4 Modify the file with the target DR Series system information.



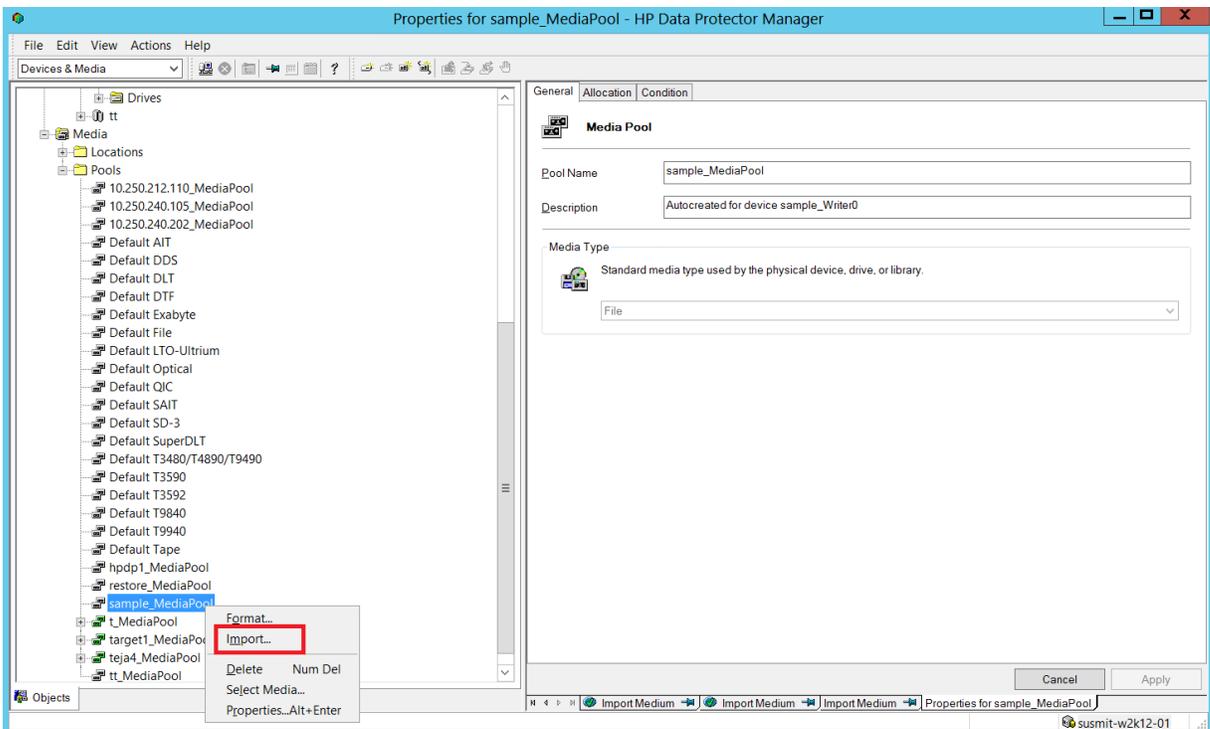
```
sample - Notepad
File Edit Format View Help
NAME "sample"
DESCRIPTION ""
HOST susmit-w2k12-01
POLICY Filelibrary
TYPE File
REPOSITORY
  "\\10.250.240.202\sample\eee8fa0a0582960b10121400001.fd"
  "\\10.250.240.105\rep-target\eee8fa0a05832ae4adf12100004.fd"
DIRECTORY
  "5120 2 0 10 \\10.250.240.202\sample"
MGMTCONSOLEURL ""
```

- 5 Upload this modified configuration file to IDB using the command “**omniupload**”.

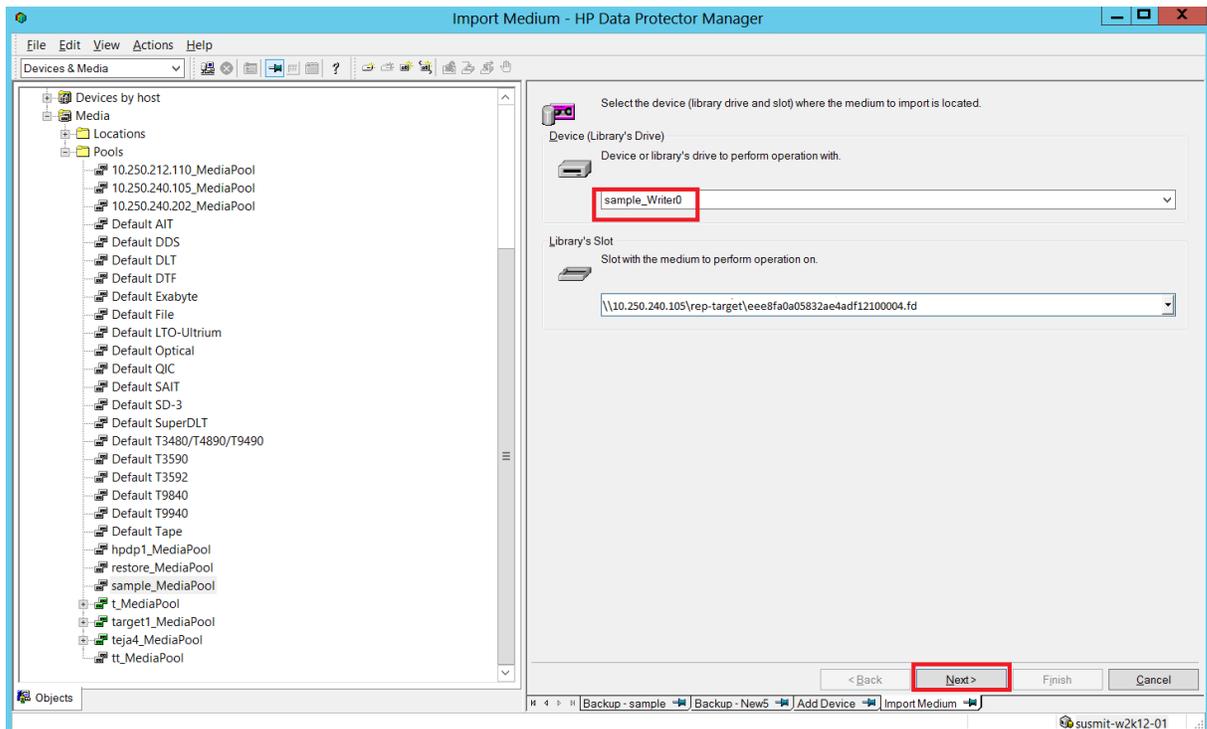


NOTE: Refer to Appendix C for information on how to use the command “**omniupload**”.

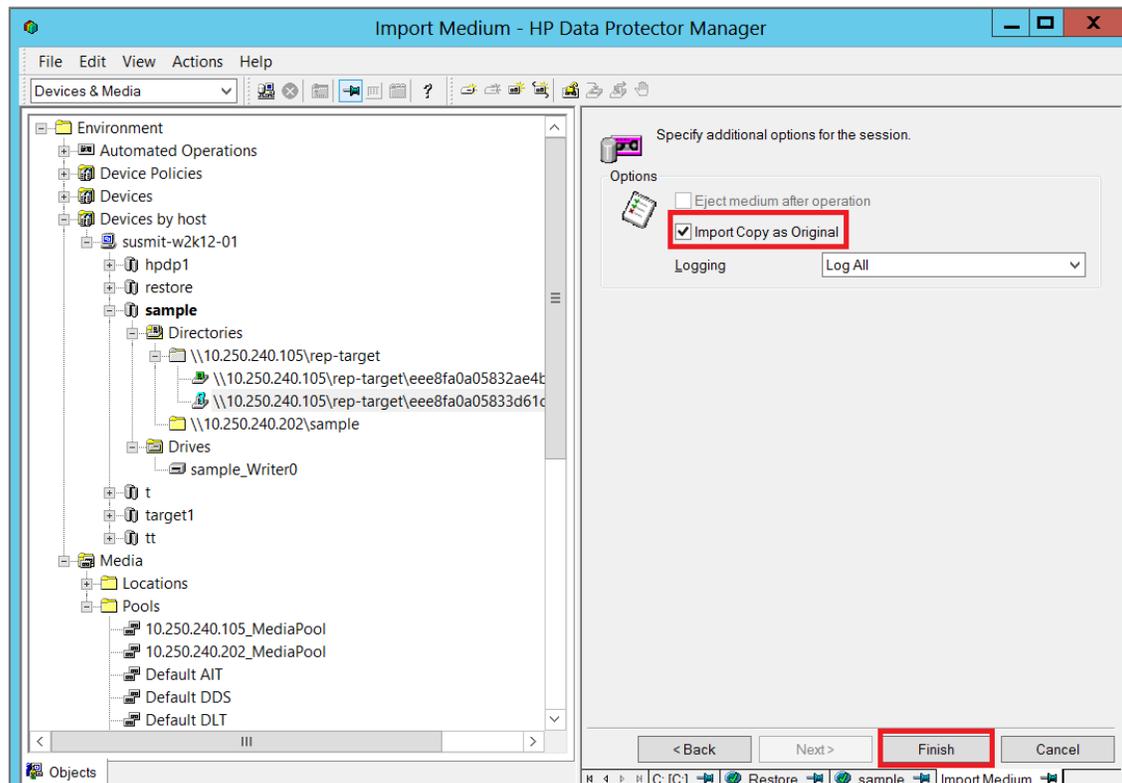
- 6 Click **Media > Pools > Import** to import the device object from the target device.



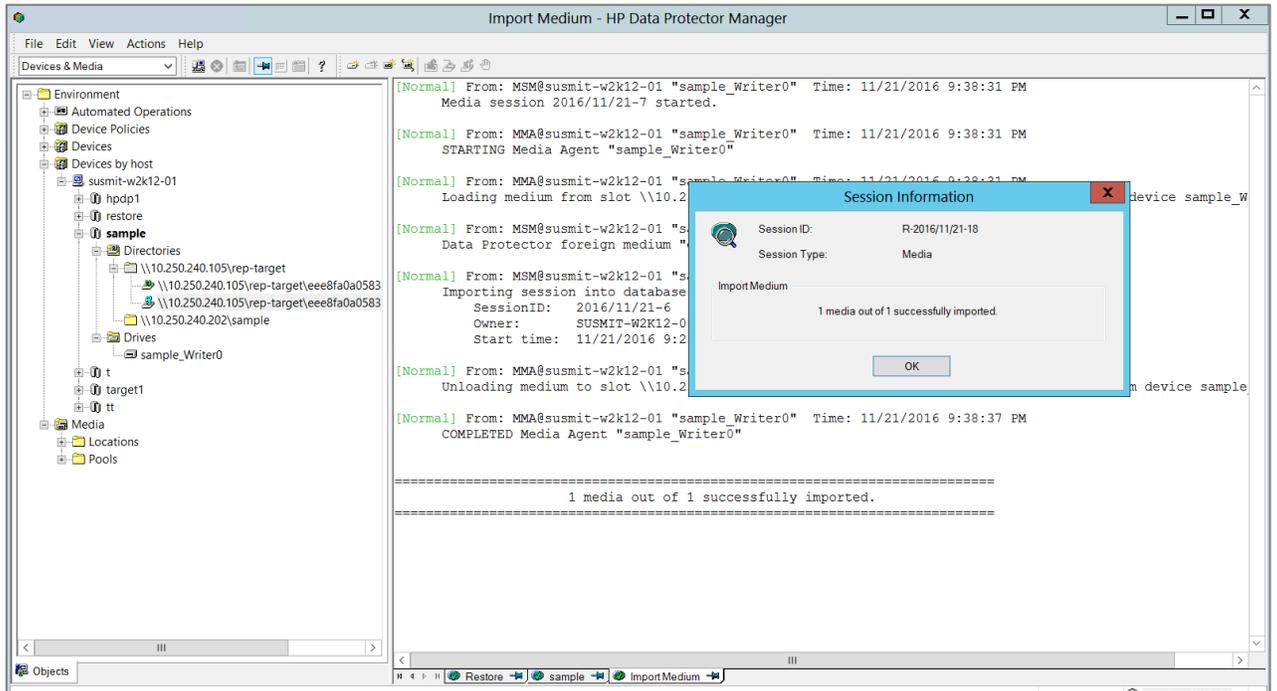
7 Click **Next**.



8 Select the **Import Copy as Original** checkbox, and click **Finish**.

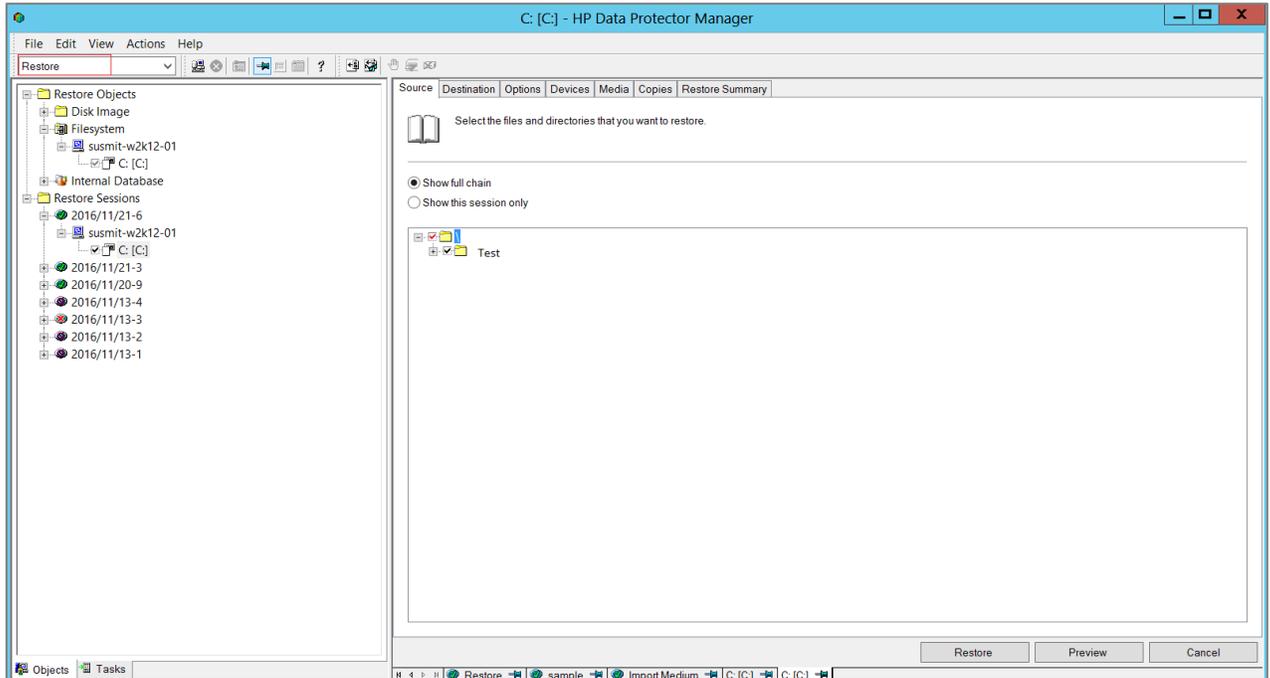


9 Verify that the import is done successfully.

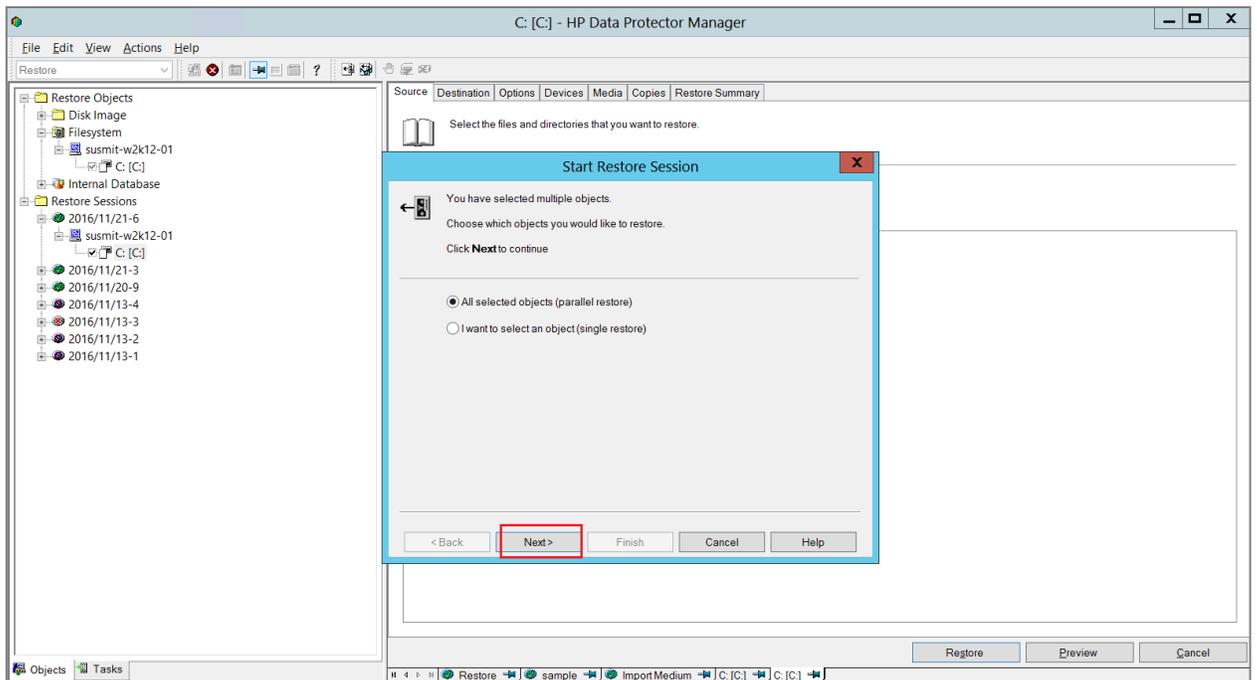


Restoring from the target DR Series system

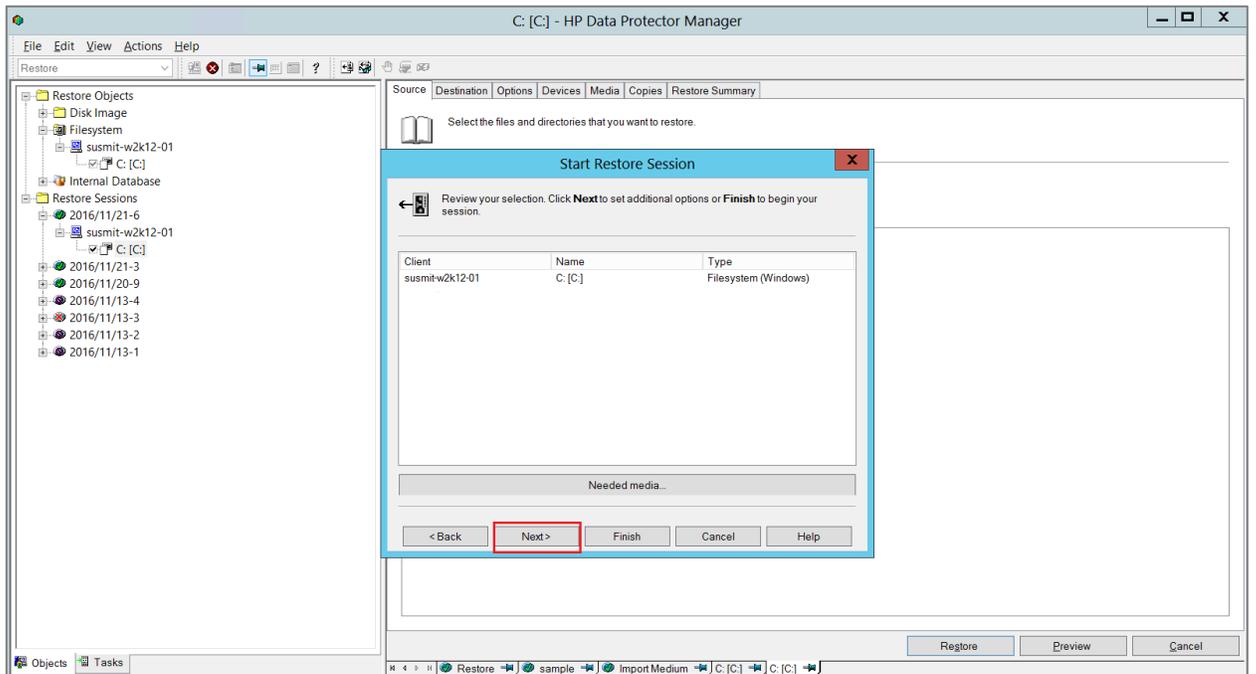
- 1 In the **Context List** drop-down menu, select **Restore**, run the restore session that is associated to the backup set, and click **Restore**.



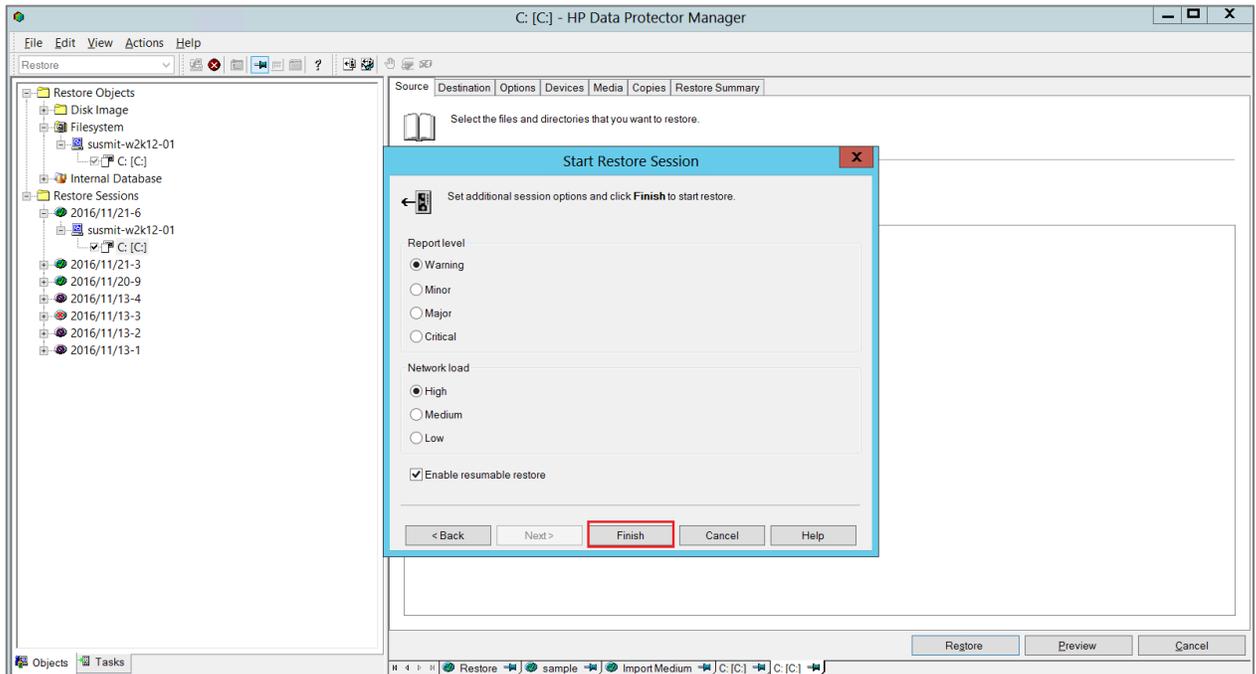
- 2 Click **Next**.



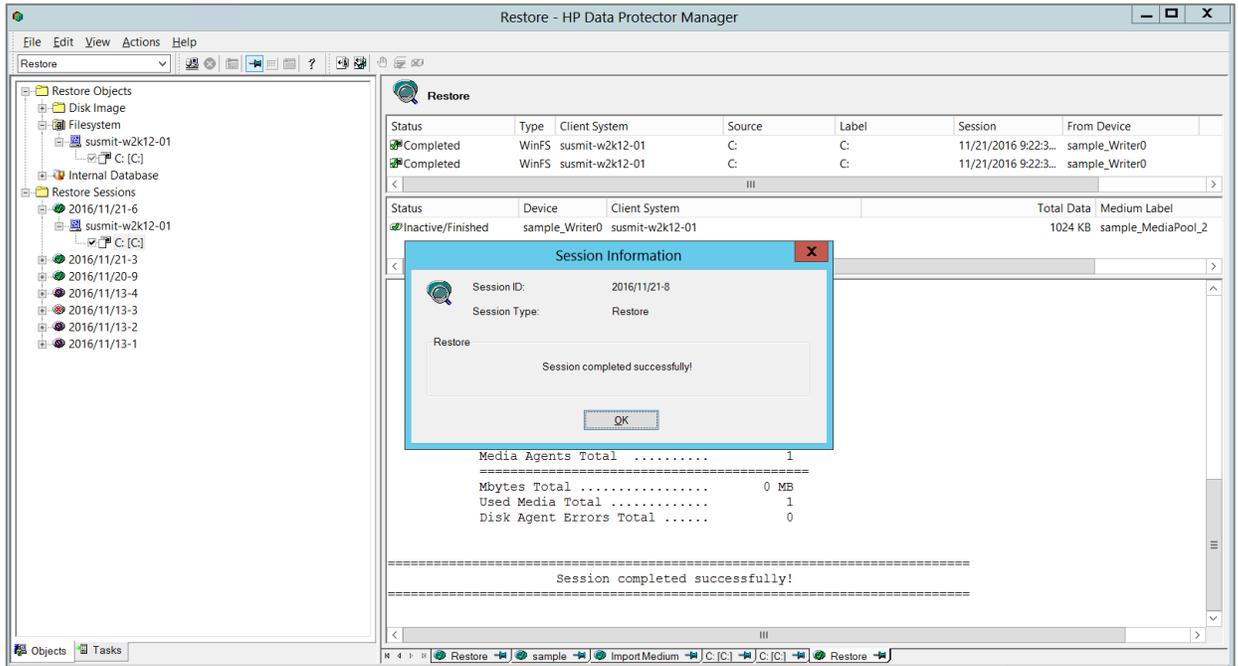
3 Click **Next**.



4 Click **Finish**.



5 Verify that the restore is done successfully.



Setting up the DR Series system cleaner

The cleaner will run 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 which will force it to run during that scheduled time.

If necessary, you can do the following procedure as described in the screenshot to force the cleaner to run. Once all the backup jobs are setup the DR Series System cleaner can be scheduled. The DR Series System cleaner should run at least 40 hours per week when backups are not taking place, generally after a backup job has completed.

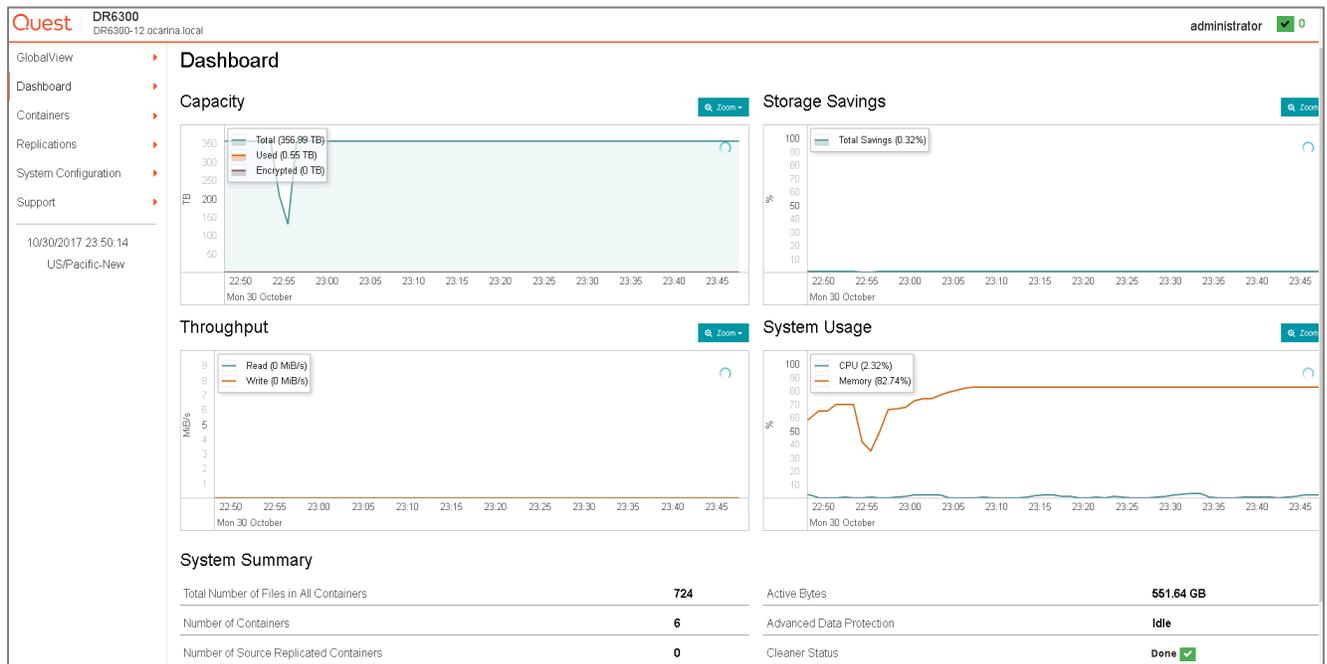
Performing scheduled disk space reclamation operations are recommended as a method for recovering disk space from system containers in which files were deleted as a result of deduplication.

The screenshot displays the Quest DR6300 Schedules interface. The top navigation bar includes the Quest logo, system information (DR6300, DR6300-12.ocarina.local), and the user 'administrator' with a green checkmark and '0' notifications. The left sidebar contains menu items: GlobalView, Dashboard, Containers, Replications, System Configuration (highlighted with a red box), and Support. The main content area is titled 'Schedules' and shows 'Cleaner status: Done'. Below this, there are sections for 'Cleaner Schedule' (with a green square icon and 'All' dropdown) and 'Source Replication Schedule' (with a blue square icon and 'All' dropdown). A 'Target Replication Schedule' section is also present with an orange square icon and 'All' dropdown. A red arrow points to a 'Schedule Cleaner' button. On the right, a dropdown menu is open, showing options: '+ Add Cleaner Event' (highlighted with a red box), '+ Add Replication Event', '+ Add Multiple Replications', '+ Add Multiple Cleaners', '+ Run Cleaner Now', and 'Log Out'. The main area features a calendar grid with columns for Sun, Mon, Tue, Wed, Thu, and Fri, and rows for times from 3:00 to 10:00. The Monday column is highlighted in yellow.

Monitoring Deduplication, Compression and Performance

After backup jobs have completed, 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 complete, the ratios will increase. Backup jobs with a 12-week retention will average a 15x ratio in most cases.



A - Creating a storage device for CIFS

There are two options for HP Data Protector to authenticate to the DR Series system through CIFS.

- **DR joined into the domain:** Integrates HP Data Protector Server and DR Series System with Active Directory
 - Ensure the AD user has appropriate ACLs to the DR Series System Container share.
 - Set the HP Data Protector service to run with this AD user <Domain\User>.
- **DR as a standalone CIFS server:** Make sure the HP Data Protector Inet service and CRS service use the same logon user. Make sure the DR Series system also has the same username and password defined in the Local Workgroup Users. Also, make sure this CIFS user has appropriate access permission to the DR Series System container share. HP Data Protector services will use this user to authenticate to the DR Series System share in Workgroup mode.
 - To set the password for the local CIFS administrator on the DR Series System, log on to the DR using SSH.
 - Log on with username: administrator, and password: St0r@ge!
 - Run the following command: `authenticate --set --user administrator`

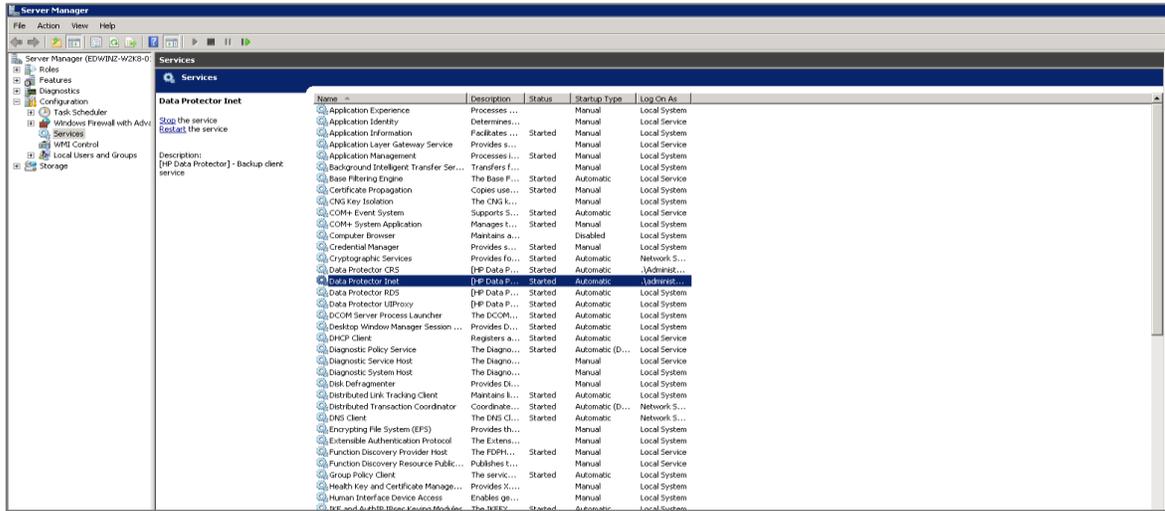
```
[root@DR6300-12 ~]# authenticate --set --user administrator
Enter new password for CIFS user administrator:
Re-enter new password for CIFS user administrator:
Changed administrator's password.
[root@DR6300-12 ~]#
```



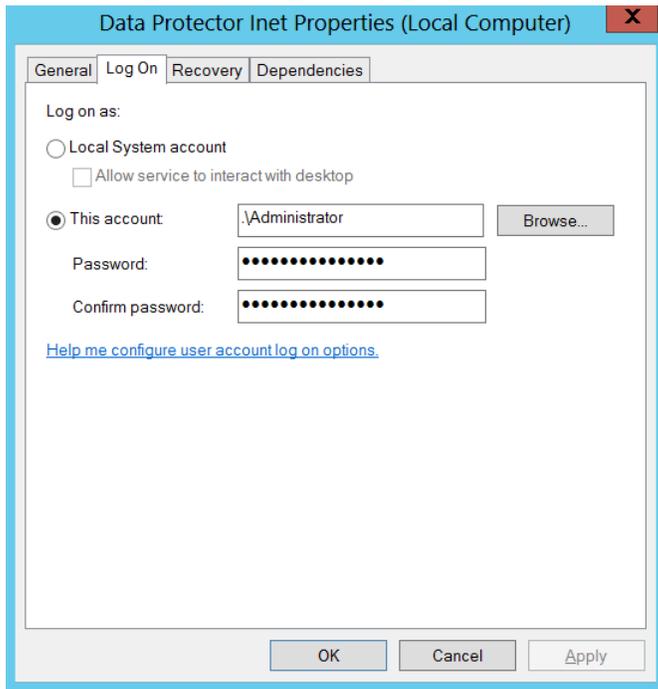
NOTE: The CIFS administrator account is a separate account from the administrator account used to administer the appliance. After an authentication method is chosen, set the HP Data Protector Service account to use the CIFS administrator account.

- 1 Launch the Microsoft Services Snap-in by clicking **Start > Run > Services.msc > Enter**.

- 2 Locate the Data Protector Inet and Data Protector CRS Service, right-click **Properties** and click the Log On tab.



NOTE: Do this step only when no backups are currently running, as restarting the services causes backup jobs to fail. Double-click on the services one at a time. If you are using local synced accounts rather than the AD account, make sure that there is a “.\” in front of the user name.



- 3 Click **OK**.
- 4 After changing both services for HP Data Protector, select **Stop/Start** to restart the two services.

B - Creating a storage device for NFS

For NFS backup using HP Data Protector, a target folder needs to be created as an NFS share directory. This is the location to which backup objects will be written. (This is not required for adding a CIFS share.)

- 1 Mount the DR Series System NFS share onto the NFS share directory to which backup objects will be written in the HP Data Protector environment.
- 2 Verify the NFS share. (One way is to try using the Linux command "cat /proc/mounts". The rsize and wsize of the nfs mount should be 512K.)

C - User commands

- **Omnidownload**

- Downloads information about a backup device and a library from the Data Protector Internal Database (IDB).
- This command is available on systems with the Data Protector User Interface component installed.

Examples:

To review the information about a virtual tape library named "VTL" in ASCII format that will be saved as the file "libVTL.txt" to the directory "C:\Temp", run:

```
omnidownload -library VTL -file C:\Temp\libVTL.txt
```

- **Omnupload**

- Uploads information about a backup device from an ASCII file to the Data Protector internal database(IDB).
- This command is available on systems with the Data Protector User Interface component installed.

Examples:

To modify library"Exabyte1" using the information in the file "/tmp/EXA", run:

```
omniupload -modify_library Exabyte1 -file /tmp/EXA
```