**Snapshots Requiring Clean-up**

The reason why this process is required is due to the way SnapProtect and the DFM “work together”. Currently if a VM is deleted or moved to another volume and no other VM’s part of that same backup subclient exist on that volume the snapshots will not age and will require a manual clean-up process.

**Finding a snapshot that has not aged.**

Normally you will notice the snapshots on the volume are much older than the other vault copies that are continually updated as part of the SnapProtect subclients and DFM relationship.



**Locate the vault copy on the 2240.**

Find the vaulted volume on the 2240, in this case the volume is **NFS\_VM08R2\_01.** If multiple vault copies have been created the 2240 will have created multiple volumes and will normally append \_1, \_2 or \_3 and so on.

In this example we need to check for the correct volume that relates to the vault copy that needs to be removed from the dataset in DFM. We have 3 to choose from.



Checking the snapshots on these volumes I can see the one with only the vault relationship baseline snapshot. This is the one that has not been updated and needs to be removed in DFM.



**Locate the dataset in DFM that this vault relationship was created by.**

Connect to DFM Server and open the DFM management console. Click on Data/Datasets and then click on the Provisioning tab. Click on each of the datasets looking for the volume name on the 2240. In this example we are looking for SP\_backup\_FILER\_NFS\_VM08R2\_01\_2.



This vault relationship has been created by CC-SnapProtectServer\_SS-2997\_SC-55

**No we need to remove the relationship from DFM**

Open CMD on the DFM server

List the datasets to get the ID

C:\Users\TEMP>**dfpm dataset list**

Id Name Protection Policy Provisioning Policy Application Policy Storage Service

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 3791 CC-SnapProtectServer\_SS-14\_SC-30 SnapProtect Back up CC-SnapProtectServer\_SP-7\_Copy-29

 3860 CC-SnapProtectServer\_SS-14\_SC-48 SnapProtect Back up CC-SnapProtectServer\_SP-7\_Copy-29

 3891 CC-SnapProtectServer\_SS-14\_SC-69 SnapProtect Back up CC-SnapProtectServer\_SP-7\_Copy-29

 3912 CC-SnapProtectServer\_SS-14\_SC-70 SnapProtect Back up CC-SnapProtectServer\_SP-7\_Copy-29

 3880 CC-SnapProtectServer\_SS-15\_SC-69 SnapProtect Back up CC-SnapProtectServer\_SP-4\_Copy-32

 3260 CC-SnapProtectServer\_SS-2997\_SC-49 SnapProtect Back up CC-SnapProtectServer\_SP-7\_Copy-29

 3293 CC-SnapProtectServer\_SS-2997\_SC-50 SnapProtect Back up CC-SnapProtectServer\_SP-7\_Copy-29

 3092 CC-SnapProtectServer\_SS-2997\_SC-54 SnapProtect Back up CC-SnapProtectServer\_SP-7\_Copy-29

 3179 CC-SnapProtectServer\_SS-2997\_SC-55 SnapProtect Back up CC-SnapProtectServer\_SP-7\_Copy-29

 3150 CC-SnapProtectServer\_SS-2997\_SC-60 SnapProtect Back up CC-SnapProtectServer\_SP-7\_Copy-29

 3247 CC-SnapProtectServer\_SS-2997\_SC-62 SnapProtect Back up CC-SnapProtectServer\_SP-7\_Copy-29

 3026 CC-SnapProtectServer\_SS-2997\_SC-8 SnapProtect Back up CC-SnapProtectServer\_SP-7\_Copy-29

 3341 CC-SnapProtectServer\_SS-3338\_SC-64 SnapProtect Back up CC-SnapProtectServer\_SP-8\_Copy-35

Get the ID of the dataset. In this example ID:3179

Now we need to get the vault relationship ID:3706

C:\Users\TEMP>**dfpm dataset list -m 3179**

Id Node Name Dataset Id Dataset Name Member Type Name

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 262 Primary data 3179 CC-SnapProtectServer\_SS-2997\_SC-55 qtree FILER:/NFS\_VMGuest\_03/-

 287 Primary data 3179 CC-SnapProtectServer\_SS-2997\_SC-55 qtree FILER:/NFS\_VMGuest\_04/-

 597 Primary data 3179 CC-SnapProtectServer\_SS-2997\_SC-55 qtree FILER2:/NFSB\_VM2k3\_05/-

 598 Primary data 3179 CC-SnapProtectServer\_SS-2997\_SC-55 qtree FILER2:/NFSB\_VM08R2\_05/-

 1995 Primary data 3179 CC-SnapProtectServer\_SS-2997\_SC-55 qtree FILER:/NFS\_S\_SCCM\_01/-

 2280 Primary data 3179 CC-SnapProtectServer\_SS-2997\_SC-55 qtree FILER2:/NFS\_G\_W2012\_02/-

 2285 Primary data 3179 CC-SnapProtectServer\_SS-2997\_SC-55 qtree FILER2:/NFS\_G\_W2008R2\_02/-

 2286 Primary data 3179 CC-SnapProtectServer\_SS-2997\_SC-55 qtree FILER2:/NFS\_G\_W2012\_04/-

 2290 Primary data 3179 CC-SnapProtectServer\_SS-2997\_SC-55 qtree FILER2:/NFS\_G\_W2008R2\_03/-

 2308 Primary data 3179 CC-SnapProtectServer\_SS-2997\_SC-55 qtree FILER:/NFS\_S\_W2008R2\_02/-

 2310 Primary data 3179 CC-SnapProtectServer\_SS-2997\_SC-55 qtree FILER:/NFS\_S\_W2008R2\_03/-

 2312 Primary data 3179 CC-SnapProtectServer\_SS-2997\_SC-55 qtree FILER:/NFS\_S\_W2008R2\_01/-

 2313 Primary data 3179 CC-SnapProtectServer\_SS-2997\_SC-55 qtree FILER:/NFS\_S\_W2012\_01/-

 2557 Primary data 3179 CC-SnapProtectServer\_SS-2997\_SC-55 qtree FILER:/NFS\_S\_Redirects/-

 3746 Primary data 3179 CC-SnapProtectServer\_SS-2997\_SC-55 qtree FILER:/NFS\_S\_WebmaintData/-

 298 Primary data 3179 CC-SnapProtectServer\_SS-2997\_SC-55 qtree FILER:/NFS\_VMGuest\_05/-

 299 Primary data 3179 CC-SnapProtectServer\_SS-2997\_SC-55 qtree FILER:/NFS\_VMGuest\_06/-

 507 Primary data 3179 CC-SnapProtectServer\_SS-2997\_SC-55 qtree FILER:/NFS\_VM2k3\_01/-

 518 Primary data 3179 CC-SnapProtectServer\_SS-2997\_SC-55 qtree FILER:/NFS\_VM2k3\_03/-

 519 Primary data 3179 CC-SnapProtectServer\_SS-2997\_SC-55 qtree FILER:/NFS\_VM2k8\_01/-

 521 Primary data 3179 CC-SnapProtectServer\_SS-2997\_SC-55 qtree FILER:/NFS\_VM08R2\_01/-

 524 Primary data 3179 CC-SnapProtectServer\_SS-2997\_SC-55 qtree FILER:/NFS\_VM08R2\_02/-

 529 Primary data 3179 CC-SnapProtectServer\_SS-2997\_SC-55 qtree FILER:/NFS\_VM08R2\_03/-

 530 Primary data 3179 CC-SnapProtectServer\_SS-2997\_SC-55 qtree FILER:/NFS\_VM08R2\_04/-

 567 Primary data 3179 CC-SnapProtectServer\_SS-2997\_SC-55 qtree FILER:/NFS\_VMNix\_01/-

 883 Primary data 3179 CC-SnapProtectServer\_SS-2997\_SC-55 qtree FILER2:/NFSB\_VM08R2\_06/-

 885 Primary data 3179 CC-SnapProtectServer\_SS-2997\_SC-55 qtree FILER2:/NFSB\_VM08R2\_07/-

 2128 Primary data 3179 CC-SnapProtectServer\_SS-2997\_SC-55 qtree FILER2:/NFS\_G\_RPT01DATA/-

 2231 Primary data 3179 CC-SnapProtectServer\_SS-2997\_SC-55 qtree FILER:/NFS\_S\_W2003\_03/-

 2234 Primary data 3179 CC-SnapProtectServer\_SS-2997\_SC-55 qtree FILER:/NFS\_S\_W2008\_02/-

 2274 Primary data 3179 CC-SnapProtectServer\_SS-2997\_SC-55 qtree FILER2:/NFS\_G\_W2008R2\_01/-

 2275 Primary data 3179 CC-SnapProtectServer\_SS-2997\_SC-55 qtree FILER2:/NFS\_G\_W2008R2\_04/-

 2358 Primary data 3179 CC-SnapProtectServer\_SS-2997\_SC-55 qtree FILER2:/NFS\_G\_WebData\_03/-

 2359 Primary data 3179 CC-SnapProtectServer\_SS-2997\_SC-55 qtree FILER2:/NFS\_G\_WebData\_01/-

 2360 Primary data 3179 CC-SnapProtectServer\_SS-2997\_SC-55 qtree FILER2:/NFS\_G\_WebData\_02/-

 2363 Primary data 3179 CC-SnapProtectServer\_SS-2997\_SC-55 qtree FILER2:/NFS\_G\_VCENTER\_DATA/-

 2366 Primary data 3179 CC-SnapProtectServer\_SS-2997\_SC-55 qtree FILER:/NFS\_S\_TEMPLATES/-

 2369 Primary data 3179 CC-SnapProtectServer\_SS-2997\_SC-55 qtree FILER:/NFS\_S\_TREND\_DATA/-

 2374 Primary data 3179 CC-SnapProtectServer\_SS-2997\_SC-55 qtree FILER2:/NFS\_G\_NIX\_01/-

 2375 Primary data 3179 CC-SnapProtectServer\_SS-2997\_SC-55 qtree FILER2:/NFS\_G\_NIX\_02/-

 2380 Primary data 3179 CC-SnapProtectServer\_SS-2997\_SC-55 qtree FILER:/NFS\_S\_NIX\_02/-

 2381 Primary data 3179 CC-SnapProtectServer\_SS-2997\_SC-55 qtree FILER:/NFS\_S\_NIX\_01/-

 3180 Backup 3179 CC-SnapProtectServer\_SS-2997\_SC-55 volume Filer2240:/SP\_backup\_FILER2\_NFS\_G\_W2008R2\_03

 3183 Backup 3179 CC-SnapProtectServer\_SS-2997\_SC-55 volume Filer2240:/SP\_backup\_FILER2\_NFS\_G\_WebData\_01

 3186 Backup 3179 CC-SnapProtectServer\_SS-2997\_SC-55 volume Filer2240:/SP\_backup\_FILER2\_NFS\_G\_WebData\_02

 3395 Backup 3179 CC-SnapProtectServer\_SS-2997\_SC-55 volume Filer2240:/SP\_backup\_FILER\_NFS\_VM08R2\_03\_2

 3398 Backup 3179 CC-SnapProtectServer\_SS-2997\_SC-55 volume Filer2240:/SP\_backup\_FILER\_NFS\_S\_NIX\_02

 3401 Backup 3179 CC-SnapProtectServer\_SS-2997\_SC-55 volume Filer2240:/SP\_backup\_FILER\_NFS\_S\_W2008R2\_01

 3404 Backup 3179 CC-SnapProtectServer\_SS-2997\_SC-55 volume Filer2240:/SP\_backup\_FILER\_NFS\_VM2k3\_03\_1

 3409 Backup 3179 CC-SnapProtectServer\_SS-2997\_SC-55 volume Filer2240:/SP\_backup\_FILER\_NFS\_VMGuest\_06\_2

 3505 Backup 3179 CC-SnapProtectServer\_SS-2997\_SC-55 volume Filer2240:/SP\_backup\_FILER2\_NFS\_G\_W2012\_04

 3508 Backup 3179 CC-SnapProtectServer\_SS-2997\_SC-55 volume Filer2240:/SP\_backup\_FILER2\_NFS\_G\_W2012\_02

 3511 Backup 3179 CC-SnapProtectServer\_SS-2997\_SC-55 volume Filer2240:/SP\_backup\_FILER2\_NFS\_G\_RPT01DATA

 3514 Backup 3179 CC-SnapProtectServer\_SS-2997\_SC-55 volume Filer2240:/SP\_backup\_FILER\_NFS\_VM08R2\_02\_4

 3517 Backup 3179 CC-SnapProtectServer\_SS-2997\_SC-55 volume Filer2240:/SP\_backup\_FILER\_NFS\_VM2k8\_01\_1

 3520 Backup 3179 CC-SnapProtectServer\_SS-2997\_SC-55 volume Filer2240:/SP\_backup\_FILER\_NFS\_S\_TREND\_DATA

 3523 Backup 3179 CC-SnapProtectServer\_SS-2997\_SC-55 volume Filer2240:/SP\_backup\_FILER\_NFS\_VMGuest\_04\_2

 3389 Backup 3179 CC-SnapProtectServer\_SS-2997\_SC-55 volume Filer2240:/SP\_backup\_FILER2\_NFSB\_VM08R2\_06

 3392 Backup 3179 CC-SnapProtectServer\_SS-2997\_SC-55 volume Filer2240:/SP\_backup\_FILER2\_NFSB\_VM2k3\_05

 3526 Backup 3179 CC-SnapProtectServer\_SS-2997\_SC-55 volume Filer2240:/SP\_backup\_FILER\_NFS\_S\_W2012\_01

 3225 Backup 3179 CC-SnapProtectServer\_SS-2997\_SC-55 volume Filer2240:/SP\_backup\_FILER\_NFS\_S\_W2008\_02

 3228 Backup 3179 CC-SnapProtectServer\_SS-2997\_SC-55 volume Filer2240:/SP\_backup\_FILER2\_NFSB\_VM08R2\_05

 3231 Backup 3179 CC-SnapProtectServer\_SS-2997\_SC-55 volume Filer2240:/SP\_backup\_FILER2\_NFS\_G\_NIX\_01

 3234 Backup 3179 CC-SnapProtectServer\_SS-2997\_SC-55 volume Filer2240:/SP\_backup\_FILER2\_NFS\_G\_NIX\_02

 3261 Backup 3179 CC-SnapProtectServer\_SS-2997\_SC-55 volume Filer2240:/SP\_backup\_FILER2\_NFS\_G\_W2008R2\_01

 3264 Backup 3179 CC-SnapProtectServer\_SS-2997\_SC-55 volume Filer2240:/SP\_backup\_FILER\_NFS\_VM08R2\_04

 3267 Backup 3179 CC-SnapProtectServer\_SS-2997\_SC-55 volume Filer2240:/SP\_backup\_FILER\_NFS\_VMGuest\_03\_2

 3579 Backup 3179 CC-SnapProtectServer\_SS-2997\_SC-55 volume Filer2240:/SP\_backup\_FILER\_NFS\_VMGuest\_05\_1

 3582 Backup 3179 CC-SnapProtectServer\_SS-2997\_SC-55 volume Filer2240:/SP\_backup\_FILER\_NFS\_S\_W2008R2\_02\_3

 3585 Backup 3179 CC-SnapProtectServer\_SS-2997\_SC-55 volume Filer2240:/SP\_backup\_FILER\_NFS\_S\_W2008R2\_03\_1

 3588 Backup 3179 CC-SnapProtectServer\_SS-2997\_SC-55 volume Filer2240:/SP\_backup\_FILER\_NFS\_VMNix\_01

 3591 Backup 3179 CC-SnapProtectServer\_SS-2997\_SC-55 volume Filer2240:/SP\_backup\_FILER\_NFS\_S\_Redirects

 3676 Backup 3179 CC-SnapProtectServer\_SS-2997\_SC-55 volume Filer2240:/SP\_backup\_FILER\_NFS\_VM08R2\_01\_2

 3683 Backup 3179 CC-SnapProtectServer\_SS-2997\_SC-55 volume Filer2240:/SP\_backup\_FILER2\_NFS\_G\_VCENTER\_DATA

 3686 Backup 3179 CC-SnapProtectServer\_SS-2997\_SC-55 volume Filer2240:/SP\_backup\_FILER2\_NFS\_G\_WebData\_03\_1

 3689 Backup 3179 CC-SnapProtectServer\_SS-2997\_SC-55 volume Filer2240:/SP\_backup\_FILER2\_NFS\_G\_W2008R2\_04\_1

 3692 Backup 3179 CC-SnapProtectServer\_SS-2997\_SC-55 volume Filer2240:/SP\_backup\_FILER2\_NFS\_G\_W2008R2\_02\_1

 3734 Backup 3179 CC-SnapProtectServer\_SS-2997\_SC-55 volume Filer2240:/SP\_backup\_FILER\_NFS\_S\_W2003\_03

 3763 Backup 3179 CC-SnapProtectServer\_SS-2997\_SC-55 volume Filer2240:/SP\_backup\_FILER\_NFS\_S\_SCCM\_01

 3766 Backup 3179 CC-SnapProtectServer\_SS-2997\_SC-55 volume Filer2240:/SP\_backup\_FILER\_NFS\_VM2k3\_01\_1

 3769 Backup 3179 CC-SnapProtectServer\_SS-2997\_SC-55 volume Filer2240:/SP\_backup\_FILER\_NFS\_S\_NIX\_01\_1

 3772 Backup 3179 CC-SnapProtectServer\_SS-2997\_SC-55 volume Filer2240:/SP\_backup\_FILER\_NFS\_S\_TEMPLATES

 3775 Backup 3179 CC-SnapProtectServer\_SS-2997\_SC-55 volume Filer2240:/SP\_backup\_FILER2\_NFSB\_VM08R2\_07\_1

 3826 Backup 3179 CC-SnapProtectServer\_SS-2997\_SC-55 volume Filer2240:/SP\_backup\_FILER\_NFS\_S\_WebmaintData

C:\Users\TEMP>dfpm dataset relinquish 3676

Relinquished relationship (3680) with destination SP\_FILER\_NFS\_VM08R2\_01 (3679).

Now click back on the Data/Dataset/Overview from the DMF console

Right click and Edit the dataset: in this example CC-SnapProtectServer\_SS-2997\_SC-55

Remove the volume from the primary physical resource and the secondary physical resource





 

Clean-up to the filer

Secondary filer:

Snapvault status

Copy the full name

Filer2240:/vol/SP\_backup\_FILER\_ NFS\_VM08R2\_01/ SP\_FILER\_NFS\_VM08R2\_01

snapvault stop Filer2240:/vol/SP\_backup\_FILER\_ NFS\_VM08R2\_01/ SP\_FILER\_NFS\_VM08R2\_01

Primary

FILER2> snap list NFS\_VM08R2\_01

**snap delete “Volume name” space “snapshot name”**

snap delete NFS\_VM08R2\_01 SP\_2\_1393\_1383671285

FILER2> snap list NFS\_VM08R2\_01

Connect to SnapProtect Server

Open the SnapProtect console

Click on Storage at the top menu and select Array Management

Click on the main filer and click list snaps



From the Array Management hopefully you will see the job number. This can be found on the primary snapshot Example: SP\_2\_1393\_1383671285



No that the vault relationship has been removed the old snapshots can be highlighted and deleted. This will clean the rest of the snapshots spread across the other volumes.

Once the volume on the 2240 has no more snapshots and the space utilized is 0% the vaulted volume on the 2240 can be taken offline and deleted.