Industrial Storage Service A

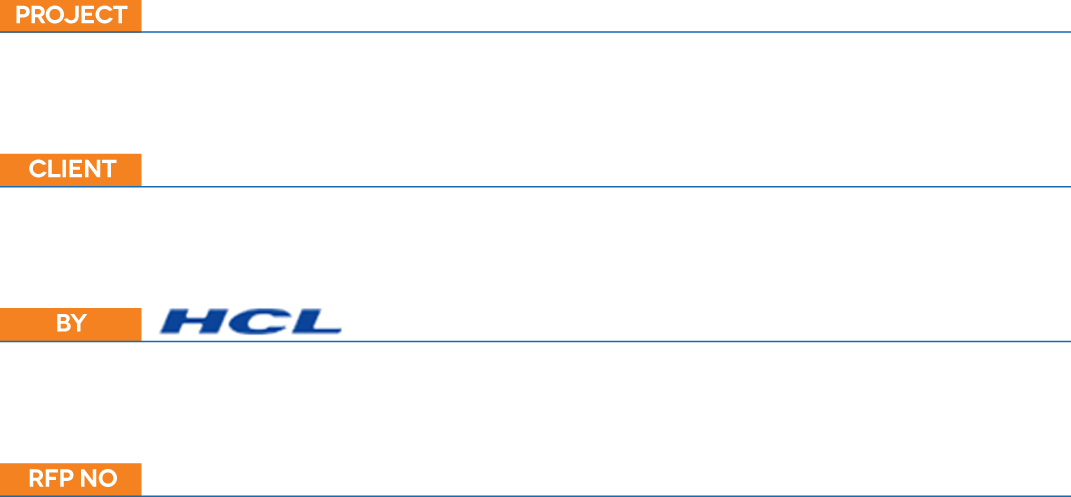
Migration Process

**Version Control**

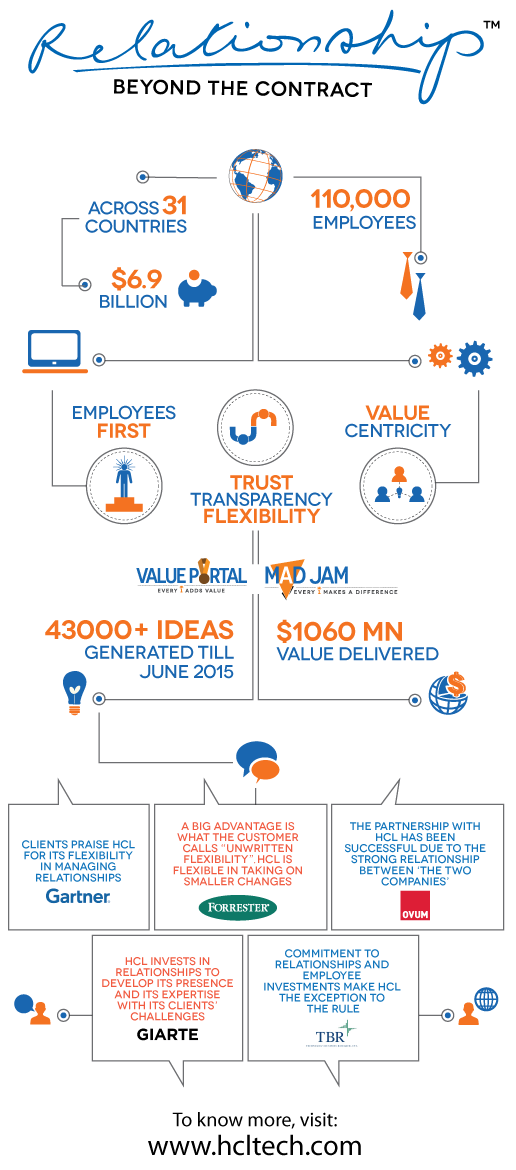
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Share creation

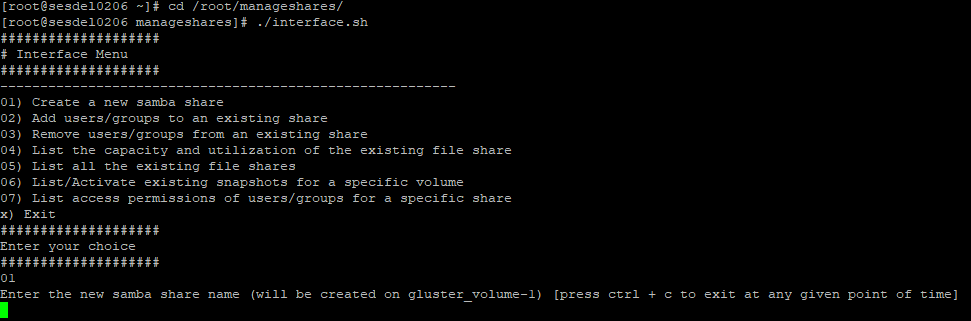
Permission copy

Migration – Data copy and Final Cutover

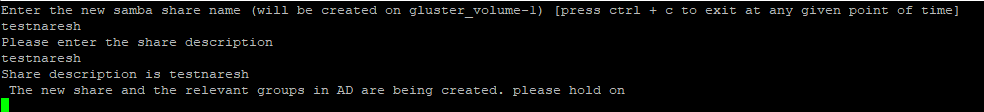
**Migration – Share in Faros**

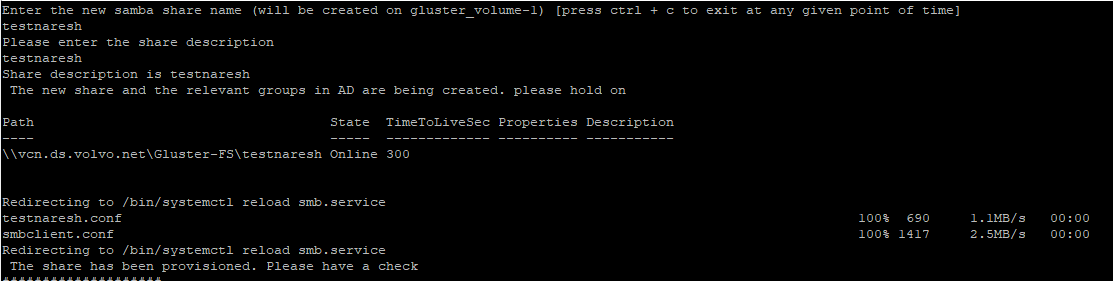
1. Share Creation
   1. New share creation

* New shares will be created through interface script using option 1 on Gluster server sesdel0206
* Login to the server sesdel0206. Go to /root/manageshares/



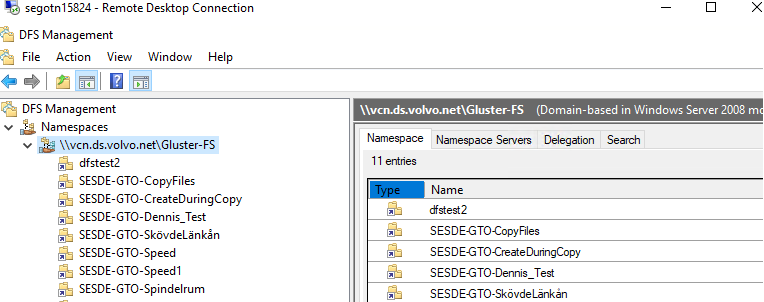
* Enter the new smba share name and description which you want to create. Once entired, New share, relevenat groups in AD& DFS path will be crated.

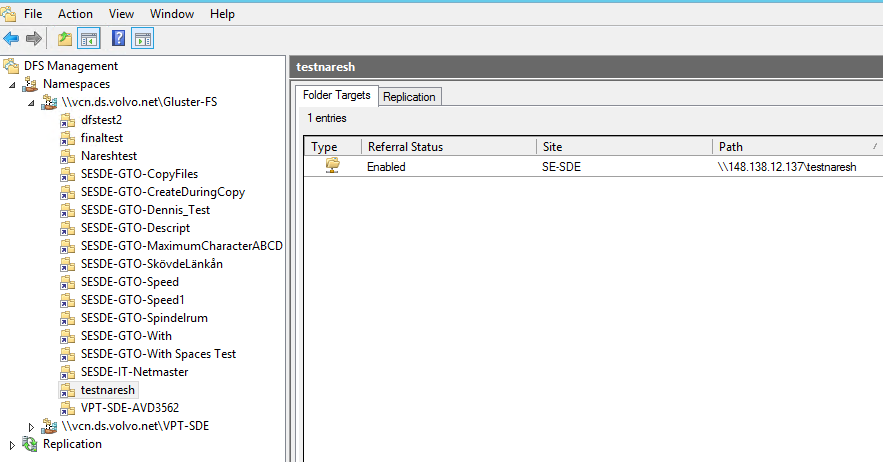




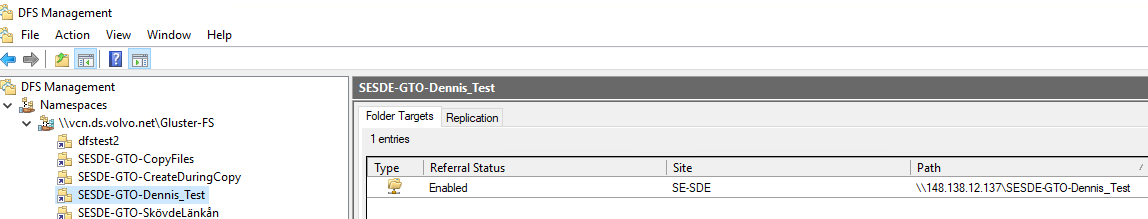
1. DFS CREATION
   1. DFS Target folder creation for the new shares.

* New folder for each share to be migrated is created under Gluster-FS namespace. This is also created at as a part of interface script.





* 1. Mapping the CIFS share to the New DFS Target
* Newly created share is mapped to the DFS folder target. Target Path will be Enabled via Default when DFS path is created through interface script.



DFS Path: [\\vcn.ds.volvo.net\Gluster-FS\VPT-SDE-AVD3562](file:///\\vcn.ds.volvo.net\Gluster-FS\VPT-SDE-AVD3562)

UNC Path: [\\ 148.138.2.80 \vpt-sde-avd3562](file:///\\148.138.12.137\vpt-sde-avd3562)

1. AD “Shared Folder” permission

* For new shares R& X groups will automatically creates in AD as a part of interface script

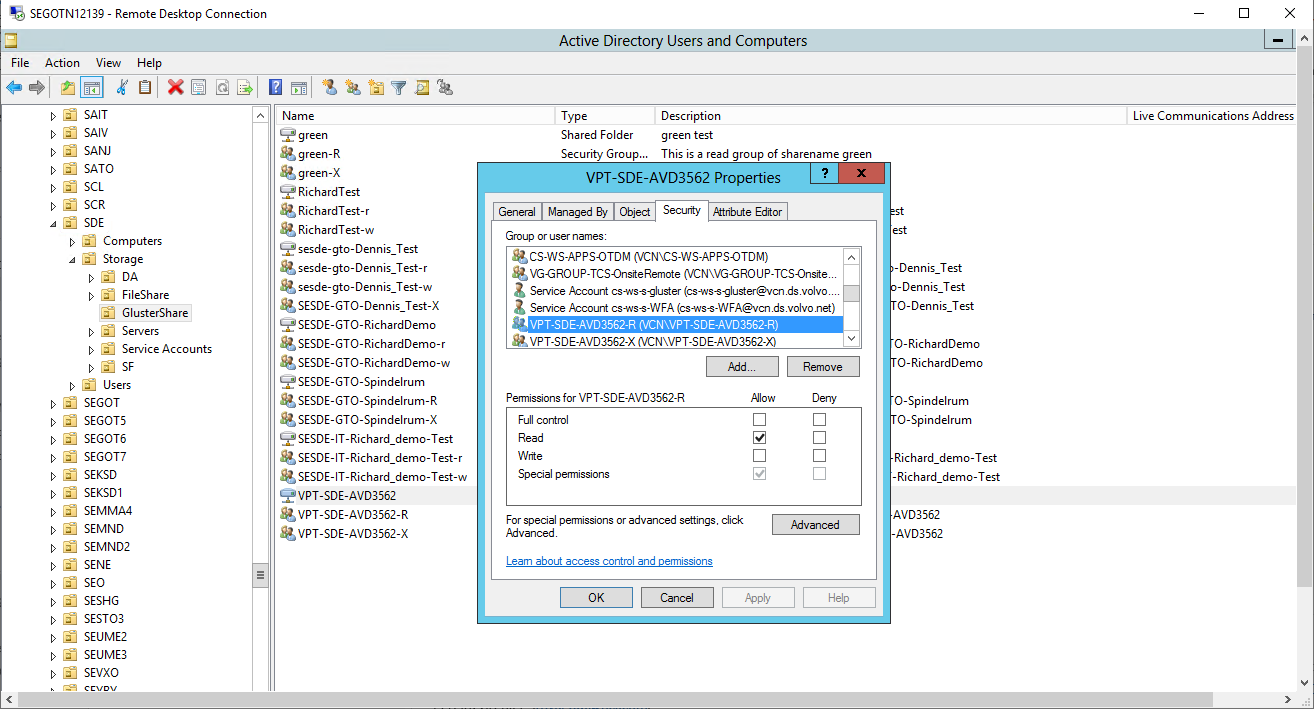
Share folder object

Security Group for read permission (-R group)

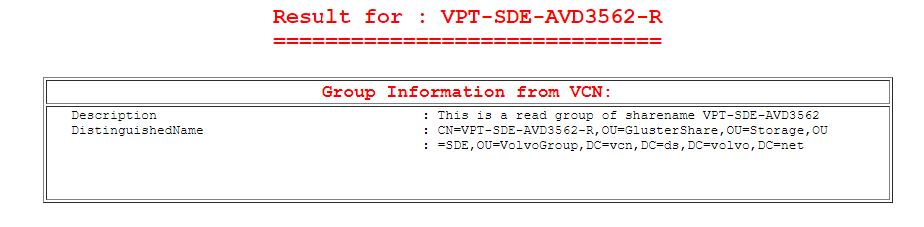
Security Group for write permission (-X group)

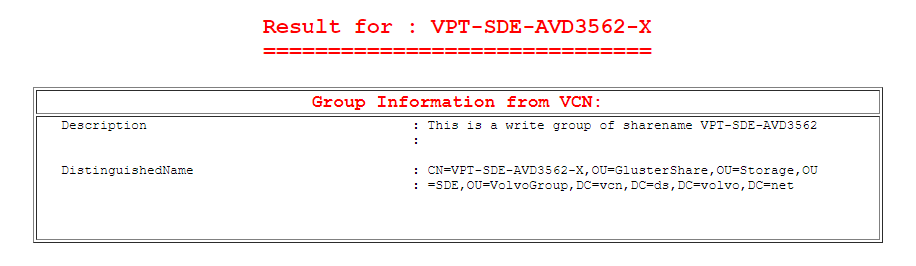


* New Serivce A “Shared Folder” are on “vcn.ds.volvo.net\VolvoGroup\SDE\Storage\GlusterShare”



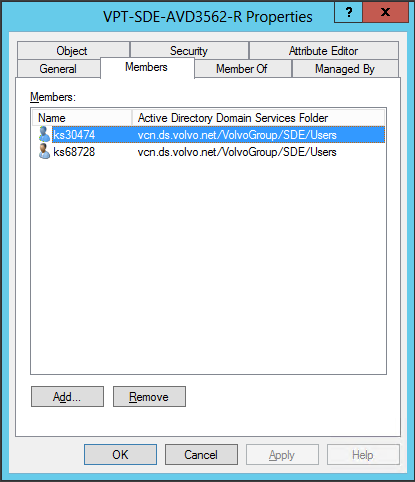
* 1. User group R and X permission
* Replicate the Users/Groups on newly created Read (-R) and Write (-X) AD groups





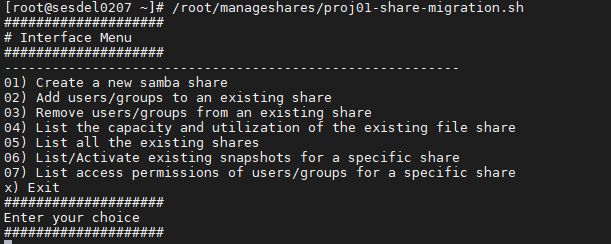
* Adding users to the new security groups (X and R)

**Note:** Admin Group (A) is not available in New Service A FileShare compare to MyPlace Infra. So we shall verify if any user who is part of (A) Group, need Read and Write acdess on New Service A Share, then these users should be added to (X or R) Group on New Shares.

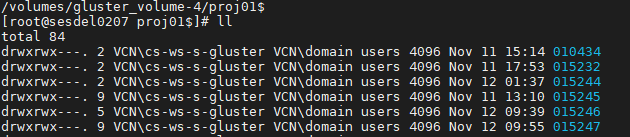


1. Migration(create a share name as same as Netapp)

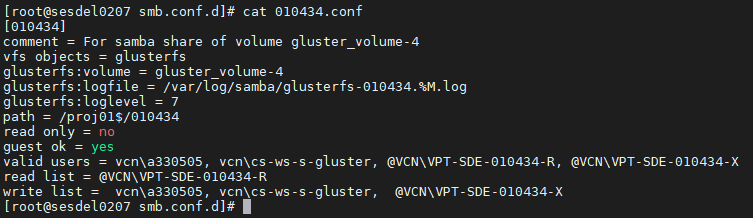
* Login to server sesdel0207 and execute the below script “**/root/manageshares/proj01-share-migration.sh**”



* New share will created like below

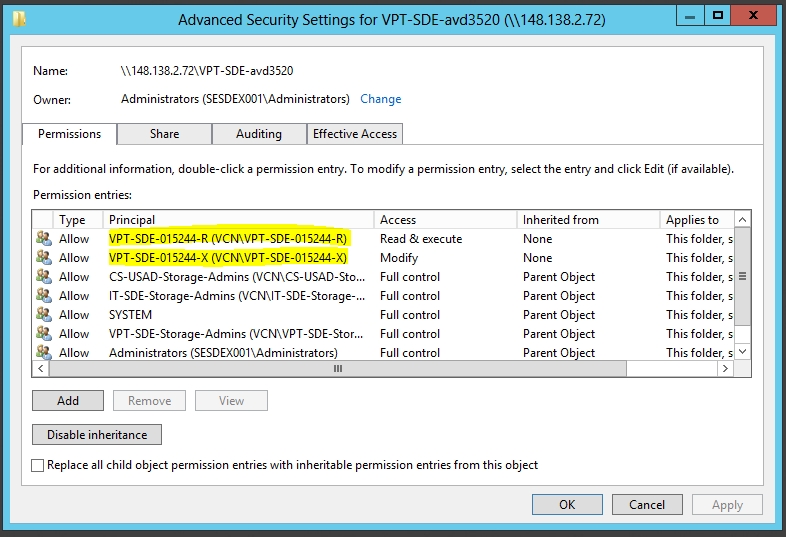


* Add R& X groups in samba permission using same script option 02.

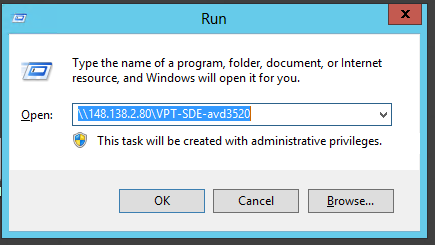


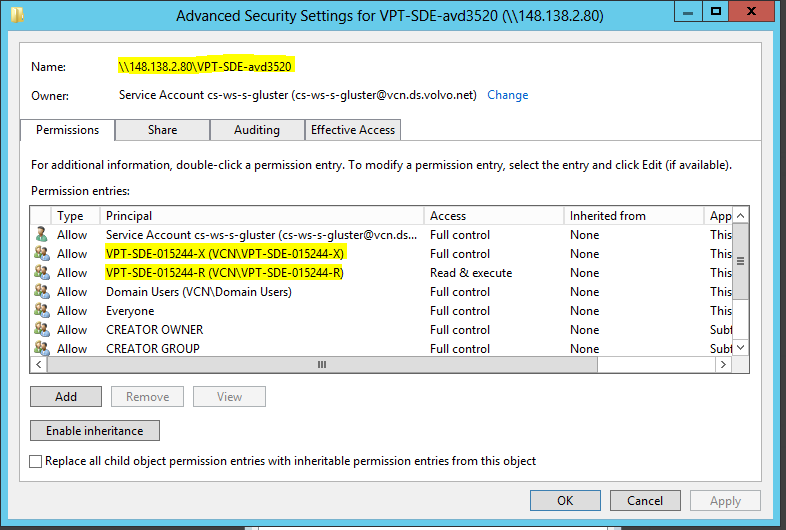
1. Permission Copy
   1. Copy permission for Gluster share same as Netapp share.

* Login to server SEGOTN12139 as “cs-ws-s-gluster”
* **Start-> run->** [\\148.138.2.72\VPT-SDE-avd3520](file:///\\148.138.2.72\VPT-SDE-avd3520) **-> right click-> properties -> advanced 🡪 Permissions**
* Make a note of R& X groups same to be added on Gluster share.



* Once you have the group information. Open gluster share and add relevant groups.
* **Start-> run->** [\\148.138.2.80\VPT-SDE-avd3520](file:///\\148.138.2.80\VPT-SDE-avd3520) **-> right click-> properties -> advanced 🡪 Add groups**





1. Migration – Data copy and Final Cutover
   1. Data Rsync

* Mount the existing/old Netapp cifs share on Gluster server and start the rsync from existing file system to New Gluster File sytem.

Example:

-> Mounting old cifs share on Gluster server

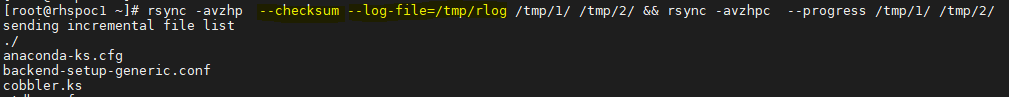
# mount -vvv -t cifs '\\148.138.2.72\vpt-sde-avd3562\' /VPT-SDE-avd3562 -o vers=1.0,username=cs-ws-s-gluster,password=\*\*\*\*\*\*\*\*\*\*\*

-> Data copy using rsync from Netapp/cifs share to Gluster File share.

# rsync -avrlzhp --chown="VCN\cs-ws-s-gluster":"VCN\domain users" --chmod=D770,F770 --checksum --log-file=/tmp/rlog /VPT-SDE-avd3520/ /volumes/gluster\_volume-4/proj01\$/VPT-SDE-avd3520-test/

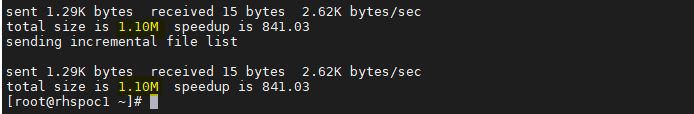
* 1. Data Validation

Step 1: We have enabled checksum option and log to verify the rsync status.



--checksum: If the file size is match, it will do a checksum at both ends to see if the files are really identical.

--log-file: Enabling the log information.

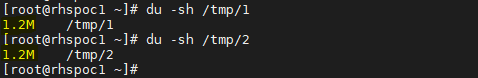


* if rsync fails in same case. we will be executing the incremental rsync again to make rsync success.

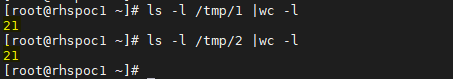
NOTE: rysnc command options are used for following

* recursively copy files and directory
* copy symlinks as symlinks
* preserve permissions
* preserve owner/group
* preserve modification time

Step 2: Validating the size of the share.( Data size of Old &New Share)



Step 3: Validating the file count. (File count of Old&New Share)



* 1. Final Cutover
* Start the final rsync - Incremental copy
* Change the DNS IP of old storage sesdex001 & sesdex002 pointing to Gluster Storage CTDB IP “148.138.2.80” and refresh DNS records
* Start publishing shares in network my places.

1. Migration – Share in Faros

* Data Rsync& Final Cutover will be same for Share in Faros also(6.1& 6.2)
* We will be requesting faros team to rename the exisiting share until we confirm to remove/delete the OLD share