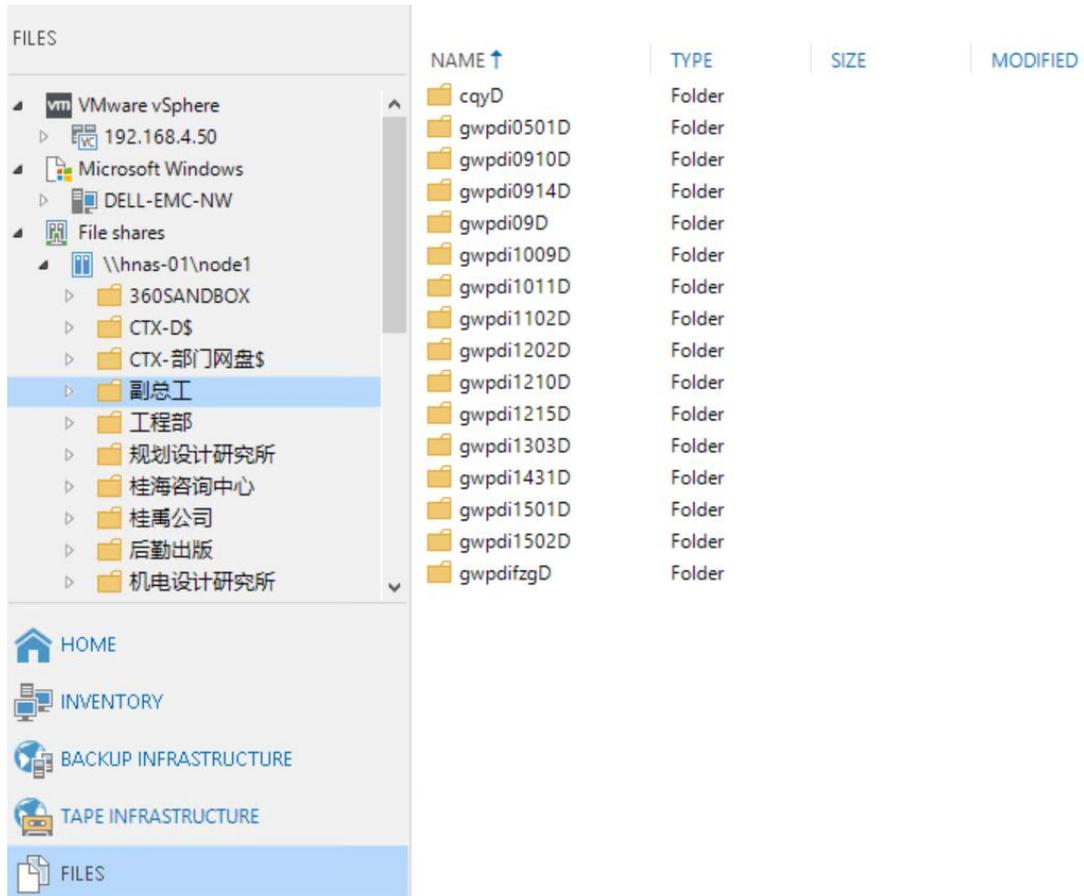
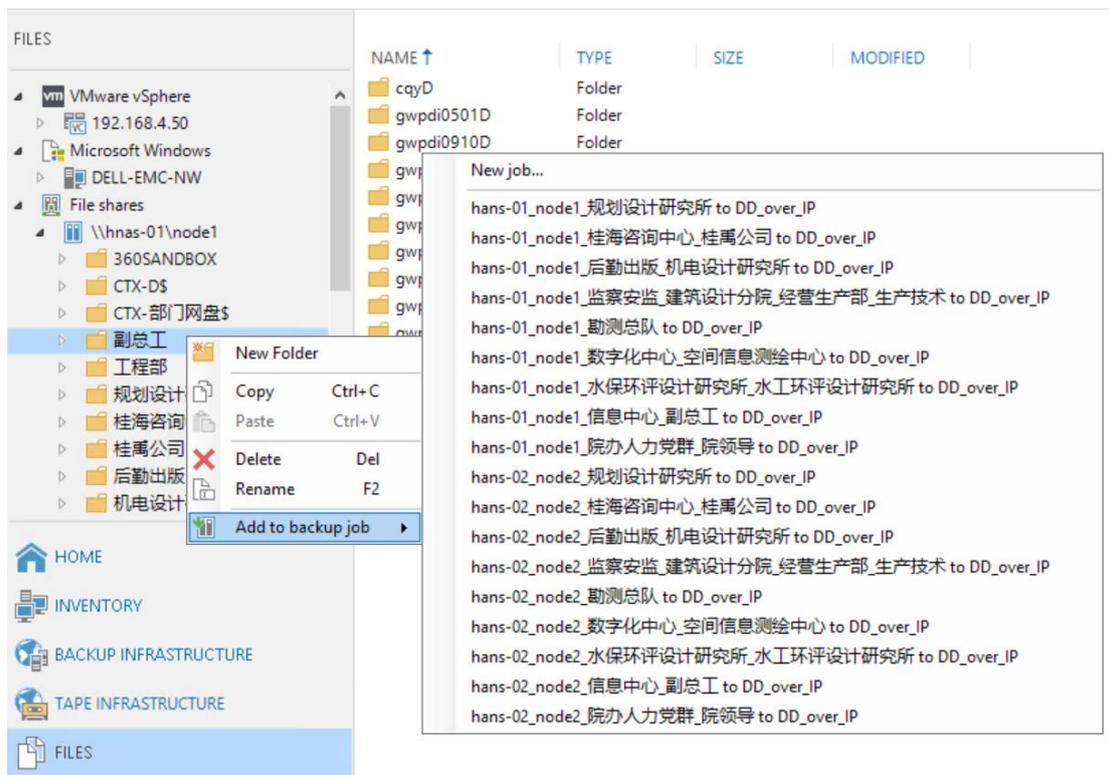


1.1 Veeam 新建 NAS 备份策略

在 Veeam 管理界面的 FILES 里, 可以看到前面添加进来的 [\\hnas-01\node1](#)、[\\hnas-02\node2](#) 的 NAS 节点。展开节点后, 可以浏览到相关部门的文件夹、以及文件夹里面的文件。



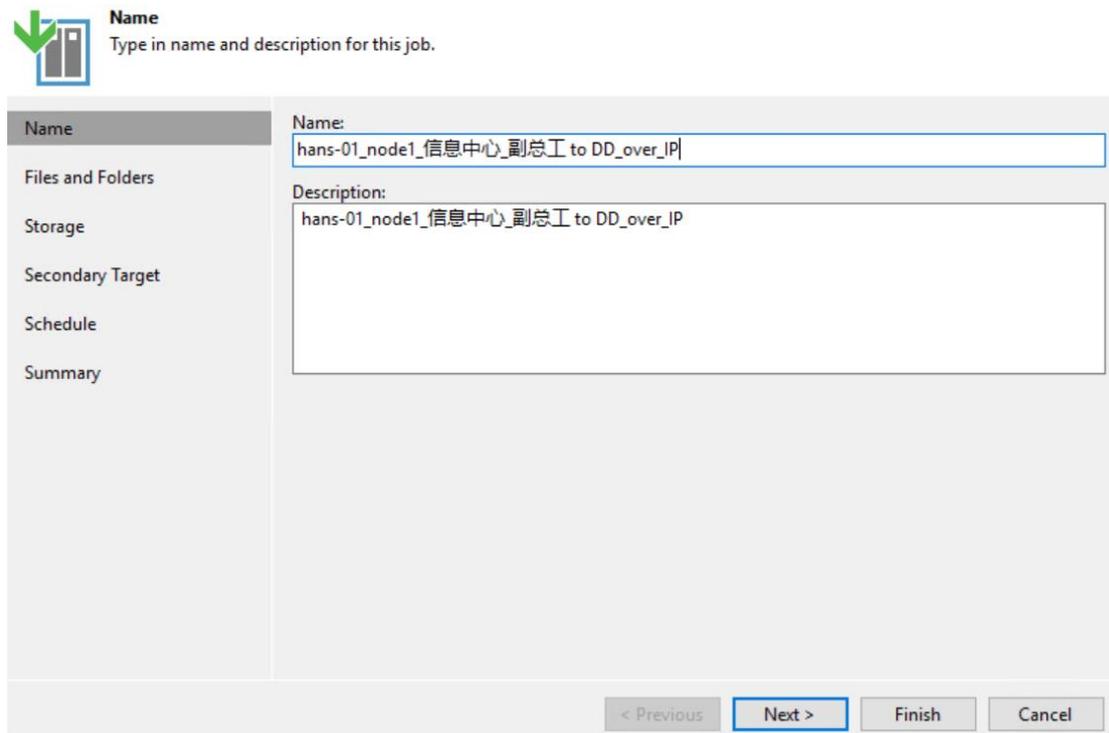
选择其中一个需要备份的文件夹, 右键后可以对当前文件夹新建备份策略、或者是把当前文件夹添加原有的备份策略里。



新建备份策略时，输入策略名称。建议使用以下的策略命名规范，方便识别。

hans-01_node1_信息中心_副总工 to DD_over_IP

Edit File Backup Job [hans-01_node1_信息中心_副总工 to DD_over_IP]



确认需要备份的文件夹。可以点击右边的 Add 来添加其他需要备份的文件夹、以及 Remove 掉其他不需要备份的文件夹。

**Files and Folders**

Specify files and folders to be backed up by this job.

Name	File or folder	Server	File mask	
Files and Folders	\\hnas-01\node1\信息中心	\\hnas-01\no...	All files	Add...
	\\hnas-01\node1\副总工	\\hnas-01\no...	All files	Remove
Storage				
Secondary Target				
Schedule				
Summary				

To specify file inclusion and exclusion settings, click **Advanced**

< Previous **Next >** Finish Cancel

Backup repository 里选择前面新建好的 ddbost over ip; Keep all file versions for the last, 是保留多少天的数据; 其他设置保持默认。

**Storage**

Specify target backup repository and file retention policy for this job.

Name	Backup repository:
Files and Folders	ddbost over ip (Created by DELL-EMC-NW\Administrator at 2020/10/19 18:14.)
Storage	23.8 TB free of 40.1 TB Map backup Keep all file versions for the last: <input type="text" value="7"/> days Retains recent versions of each file for the specified time period, allowing for restore of entire file shares to a point-in-time state, restore of deleted files, and restore of earlier file versions. <input type="checkbox"/> Keep previous file versions for: <input type="text" value="3"/> years Archives older versions of active and permanently deleted files after they are no longer covered by the recent versions retention policy. For scalability reasons, we recommend using object storage. Archive repository: Default Backup Repository (Created by Veeam Backup) Files to archive: <input type="text" value="All"/> Choose...
Secondary Target	
Schedule	
Summary	

Advanced job settings include notification settings, automated post-job activity and other settings. ⚙️ Advanced

< Previous **Next >** Finish Cancel

其他设置保持默认。



Secondary Target

We can create additional copies of the short-term file store for redundancy, using the same or different retention policy. The data copy process will start automatically after each primary job run.

Name	Capacity	Retention	
			Add...
			Edit...
			Remove

Data duplication to each secondary repository is performed automatically. You can customize retention, encryption and copy window settings by selecting the repository and clicking Edit.

< Previous **Next >** Finish Cancel

设置备份策略的 Schedule 的调度，可以以时间点来发起备份。如：每天晚上 22:00。



Schedule

Specify the job scheduling options. If you do not set the schedule, the job will need to be controlled manually.

Run the job automatically

Daily at this time: 22:00 Everyday Days...

Monthly at this time: 22:00 Fourth 星期六 Months...

Periodically every: 1 Hours Schedule...

After this job: hans-01_node1_水保环评设计研究所_水工环评设计研究所 to DD_

Automatic retry

Retry failed items processing: 3 times

Wait before each retry attempt for: 10 minutes

Backup window

Terminate job if it exceeds allowed backup window Window...

If the job does not complete within allocated backup window, it will be terminated to prevent snapshot commit during production hours.

< Previous **Apply** Finish Cancel

基于对 NAS 存储性能的考虑，可以使用 After this job 来调度备份策略。如：当第一条备份策略成功执行后，再启动第二条备份策略。这样的设置对 NAS 存储性能、网络带宽、Veeam 备份服务器的性能都有保障。



Schedule

Specify the job scheduling options. If you do not set the schedule, the job will need to be controlled manually.

Name	<input checked="" type="checkbox"/> Run the job automatically
Files and Folders	<input type="radio"/> Daily at this time: 22:00 Everyday Days... <input type="radio"/> Monthly at this time: 22:00 Fourth 星期六 Months... <input type="radio"/> Periodically every: 1 Hours Schedule... <input checked="" type="radio"/> After this job: hans-01_node1_水保环评设计研究所_水工环评设计研究所 to DD_
Storage	
Secondary Target	
Schedule	Automatic retry <input checked="" type="checkbox"/> Retry failed items processing: 3 times Wait before each retry attempt for: 10 minutes Backup window <input type="checkbox"/> Terminate job if it exceeds allowed backup window Window... If the job does not complete within allocated backup window, it will be terminated to prevent snapshot commit during production hours.
Summary	

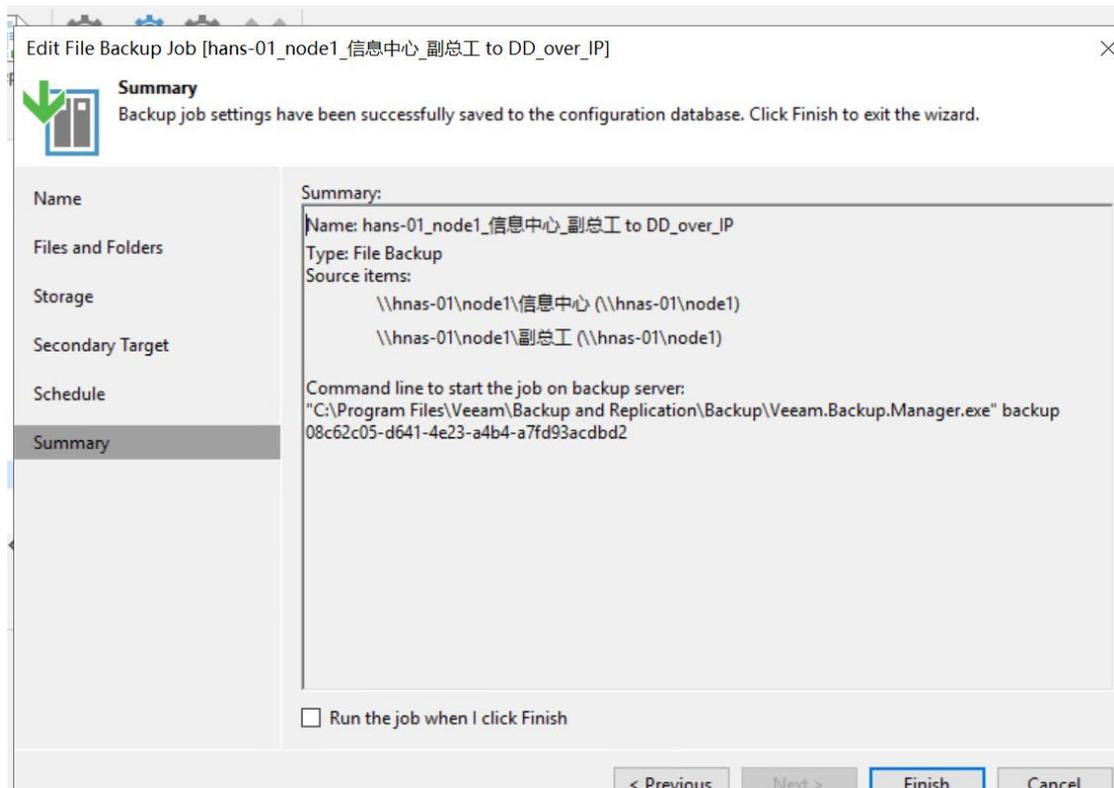


Summary

Backup job settings have been successfully saved to the configuration database. Click Finish to exit the wizard.

Name	Summary: Name: hans-01_node1_信息中心_副总工 to DD_over_IP Type: File Backup Source items: \\hnas-01\node1\信息中心 (\\hnas-01\node1) \\hnas-01\node1\副总工 (\\hnas-01\node1) Command line to start the job on backup server: "C:\Program Files\Veeam\Backup and Replication\Backup\Veeam.Backup.Manager.exe" backup 08c62c05-d641-4e23-a4b4-a7fd93acdbd2
Files and Folders	
Storage	
Secondary Target	
Schedule	
Summary	

点击 Finish 即可。



以下是本次测试新建的备份策略。

NAME ↑	TYPE	OBJECTS	STATUS	LAST RUN	NEXT RUN
hans-01_node1_规划设计研究所 to DD_over_IP	File Backup	1	Stopped	17 hours ago	2020/10/20 18:45
hans-01_node1_桂海咨询中心_桂禹公司 to DD_over_IP	File Backup	2	Stopped	9 hours ago	After [hans-01_node1_规划..
hans-01_node1_后勤出版_机电设计研究所 to DD_over_IP	File Backup	2	Stopped	6 hours ago	After [hans-01_node1_桂海..
hans-01_node1_监察安监_建筑设计分院_经营生产部_生产...	File Backup	4	38% completed a...	3 hours ago	After [hans-01_node1_后勤..
hans-01_node1_勘测总队 to DD_over_IP	File Backup	1	Stopped	17 hours ago	After [hans-01_node1_院办..
hans-01_node1_数字化中心_空间信息测绘中心 to DD_over_IP	File Backup	2	Stopped	16 hours ago	After [hans-01_node1_勘测..
hans-01_node1_水保环评设计研究所_水工环评设计研究所 t...	File Backup	2	Stopped	13 hours ago	After [hans-01_node1_数字..
hans-01_node1_信息中心_副总工 to DD_over_IP	File Backup	2	72% completed a...	5 hours ago	After [hans-01_node1_水保..
hans-01_node1_院办人力党群_院领导 to DD_over_IP	File Backup	2	Stopped	After [hans-01_node1_信息..	
hans-02_node2_规划设计研究所 to DD_over_IP	File Backup	1	Post-processing	17 hours ago	2020/10/20 18:55
hans-02_node2_桂海咨询中心_桂禹公司 to DD_over_IP	File Backup	2	Stopped	After [hans-02_node2_规划..	
hans-02_node2_后勤出版_机电设计研究所 to DD_over_IP	File Backup	2	Stopped	After [hans-02_node2_桂海..	
hans-02_node2_监察安监_建筑设计分院_经营生产部_生产...	File Backup	1	Stopped	After [hans-02_node2_后勤..	
hans-02_node2_勘测总队 to DD_over_IP	File Backup	1	Stopped	16 hours ago	After [hans-02_node2_院办..
hans-02_node2_数字化中心_空间信息测绘中心 to DD_over_IP	File Backup	2	Stopped	16 hours ago	After [hans-02_node2_勘测..
hans-02_node2_水保环评设计研究所_水工环评设计研究所 t...	File Backup	2	Post-processing	11 hours ago	After [hans-02_node2_数字..
hans-02_node2_信息中心_副总工 to DD_over_IP	File Backup	2	Stopped	After [hans-02_node2_水保..	
hans-02_node2_院办人力党群_院领导 to DD_over_IP	File Backup	2	Stopped	16 hours ago	After [hans-02_node2_信息..

备份策略建议好，首次的 Start，即是执行完全备份。

再次点击这条备份策略的 Start 时，即是执行增量备份。

NAME ↑	TYPE	OBJECTS
hans-01_node1	File Backup	1
hans-01_node1	File Backup	2
hans-01_node1	File Backup	2
hans-01_node1	File Backup	4
hans-01_node1	File Backup	1
hans-01_node1	File Backup	2
hans-01_node1	File Backup	2
hans-01_node1	File Backup	2
hans-02_node2	File Backup	1
hans-02_node2	File Backup	2
hans-02_node2	File Backup	2
hans-02_node2	File Backup	1
hans-02_node2	File Backup	1
hans-02_node2	File Backup	2

如果需要手动执行第二次的完全备份，即：按住键盘右下角的 Ctrl 键，再右键备份策略，则会出现 Start new backup，即是执行第二次的完全备份。

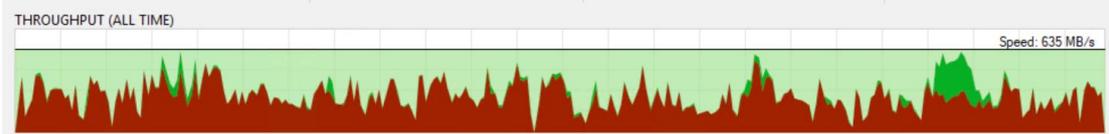
NAME ↑	TYPE
hans-01_node1	File Backup
hans-02_node2	File Backup

查看备份结果。

右键备份策略，点击 Statistics，即是查看最近一次的备份结果。

Job progress: 100% 7.7 TB of 7.7 TB

SUMMARY	DATA	FILES	STATUS
Duration: 07:32:56	Processed: 7.7 TB (100%)	Processed: 3.8M (100%)	Success: 1 ✓
Processing rate: 309 MB/s	Read: 7.7 TB	Read: 3.8M	Warnings: 0
Bottleneck: Source	Transferred: 7.1 TB (1.1x)	Transferred: 3.8M	Errors: 0

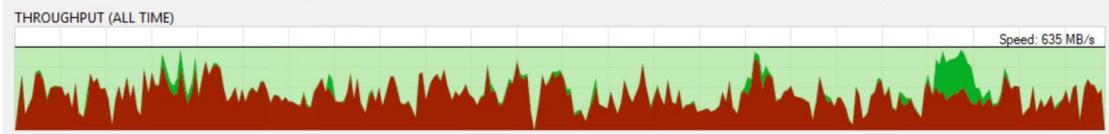


NAME	STATUS	ACTION	DURATION
\\hnas-01\node1	Success	<ul style="list-style-type: none">Queued for processing at 2020/10/19 18:45:11Required backup infrastructure resources have been assignedCreating base backup infrastructureShare processing started at 2020/10/19 18:45:21Using file backup proxy File Backup ProxySource share size: 3834427 files in 332294 folders (7.6 TB)3834705 files and 332320 folders (7.7 TB) transferred at 309 MB/sUnable to backup 72 files: files are lockedUnable to backup 45 filesBackup metadata update completed successfullyBacked up 332320 folders and 3834705 files (7.7 TB); skipped 72 locked files	00:02 06:14 07:12:26 08:20

Hide Details OK

Job progress: 100% 7.7 TB of 7.7 TB

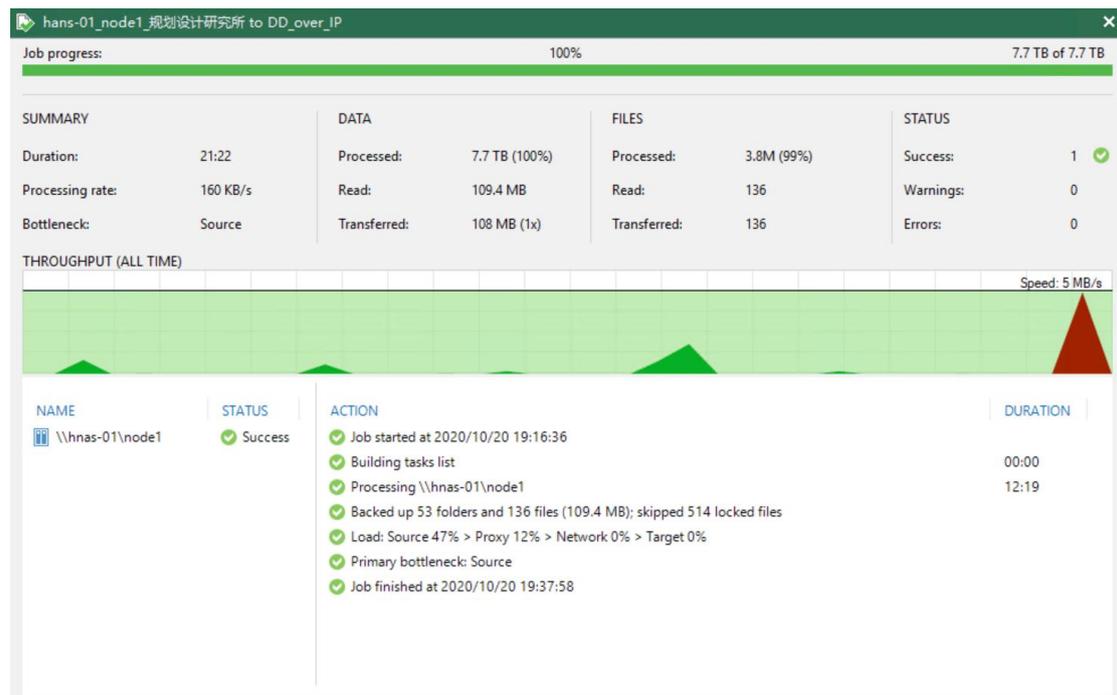
SUMMARY	DATA	FILES	STATUS
Duration: 07:32:56	Processed: 7.7 TB (100%)	Processed: 3.8M (100%)	Success: 1 ✓
Processing rate: 309 MB/s	Read: 7.7 TB	Read: 3.8M	Warnings: 0
Bottleneck: Source	Transferred: 7.1 TB (1.1x)	Transferred: 3.8M	Errors: 0



NAME	STATUS	ACTION	DURATION
\\hnas-01\node1	Success	<ul style="list-style-type: none">Using file backup proxy File Backup ProxySource share size: 3834427 files in 332294 folders (7.6 TB)3834705 files and 332320 folders (7.7 TB) transferred at 309 MB/sUnable to backup 72 files: files are lockedUnable to backup 45 filesBackup metadata update completed successfullyBacked up 332320 folders and 3834705 files (7.7 TB); skipped 72 locked filesBusy: Source 85% > Proxy 21% > Network 19% > Target 14%Primary bottleneck: SourceNetwork traffic verification detected no corrupted blocksProcessing finished at 2020/10/20 2:17:51	06:14 07:12:26 08:20

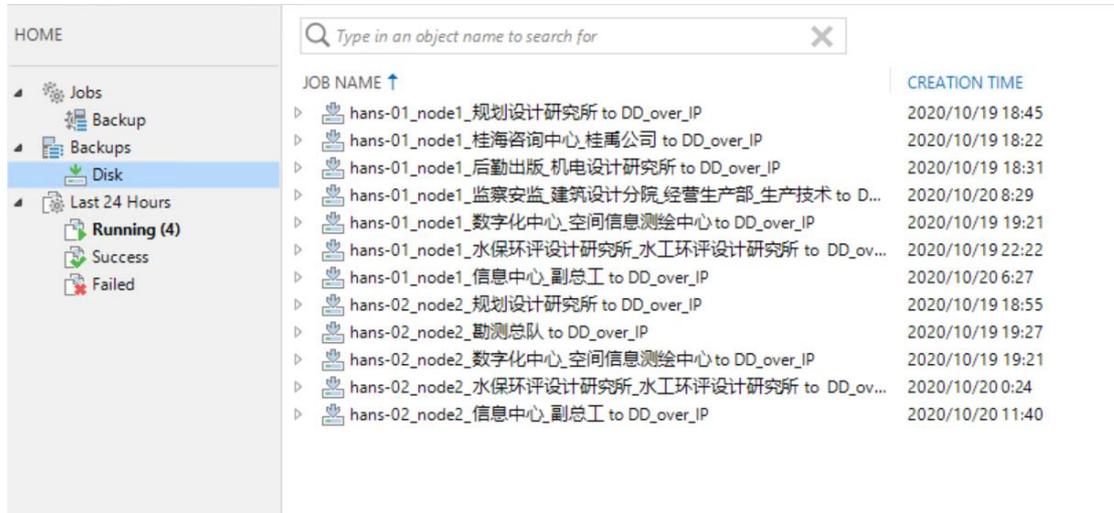
Hide Details OK

同上一条备份策略的增量备份结果显示。



1.2 Veeam 恢复 NAS 数据

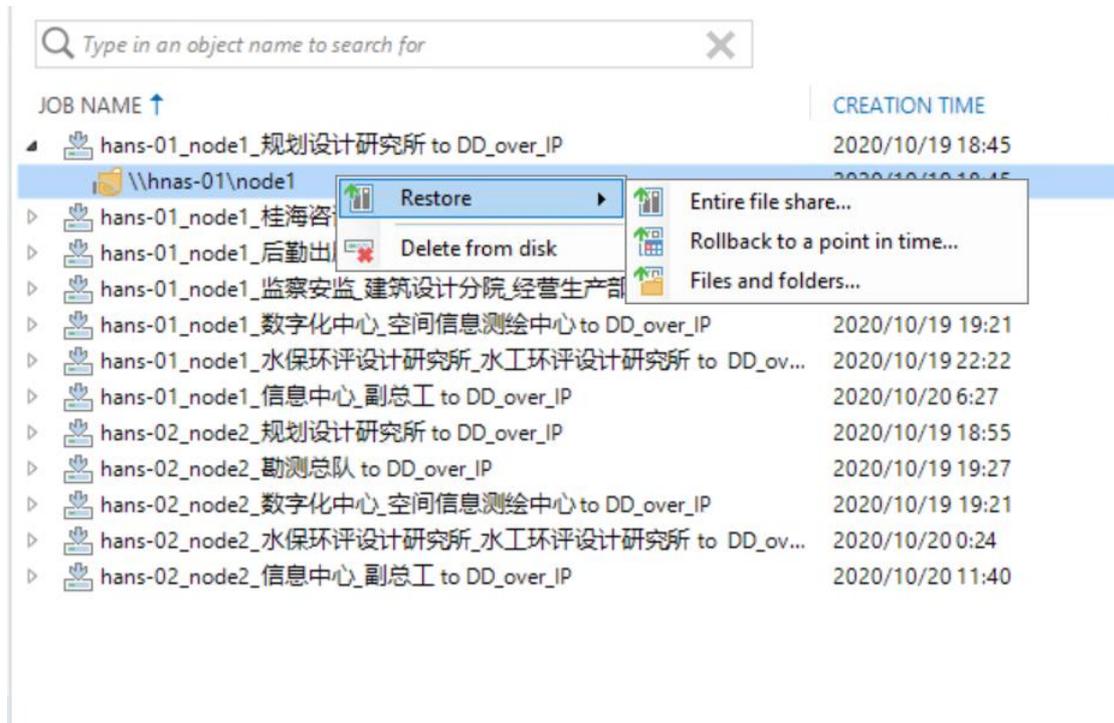
在 Disk 界面里，会显示已经成功备份策略。



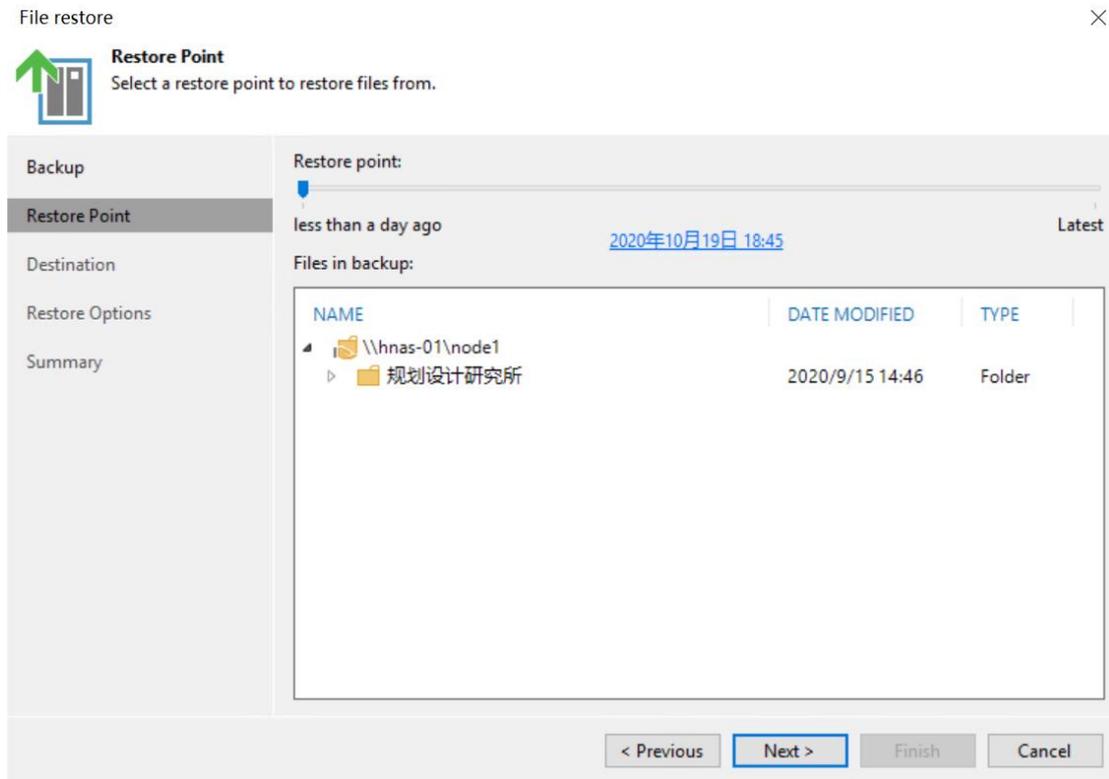
点击需要恢复的策略名称。

其中：Entire file share 是整个文件夹恢复。这个使用的场景是：当 NAS 上整个文件夹不能访问时，可以通过这个方式去恢复。

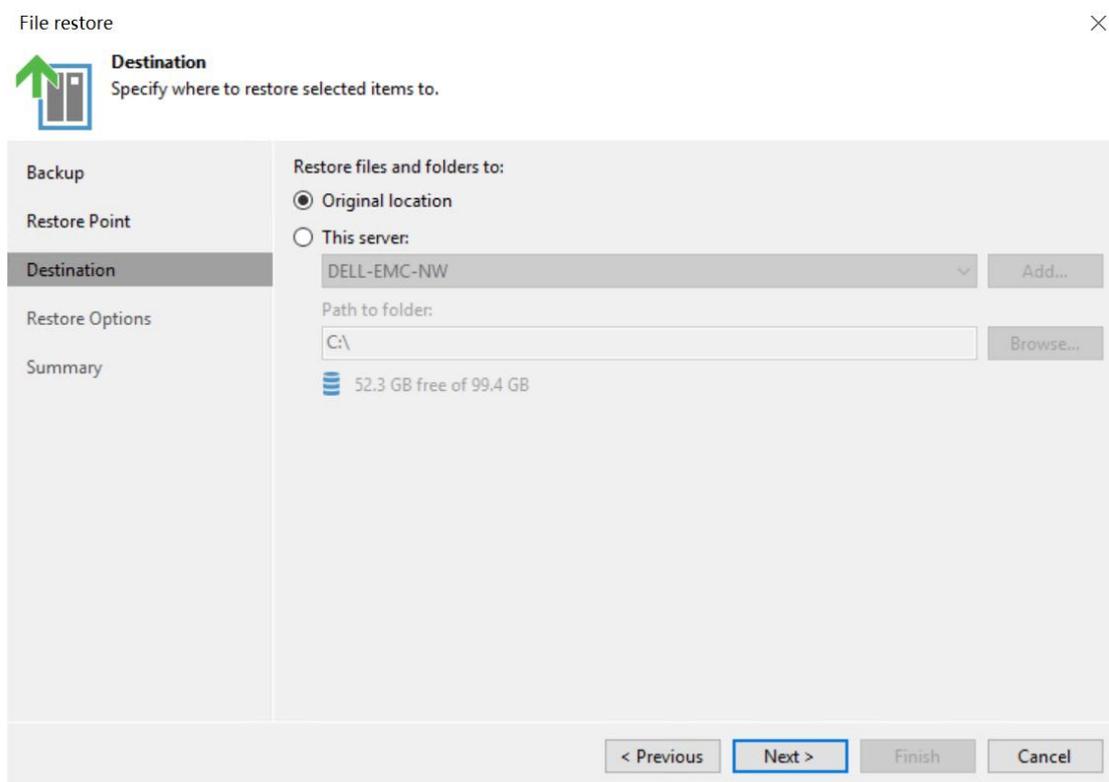
Files and folder 是单个文件夹恢复。这个使用的场景是：当 NAS 文件夹上有个文件被误删除了，可以通过这个方式去恢复单个文件。



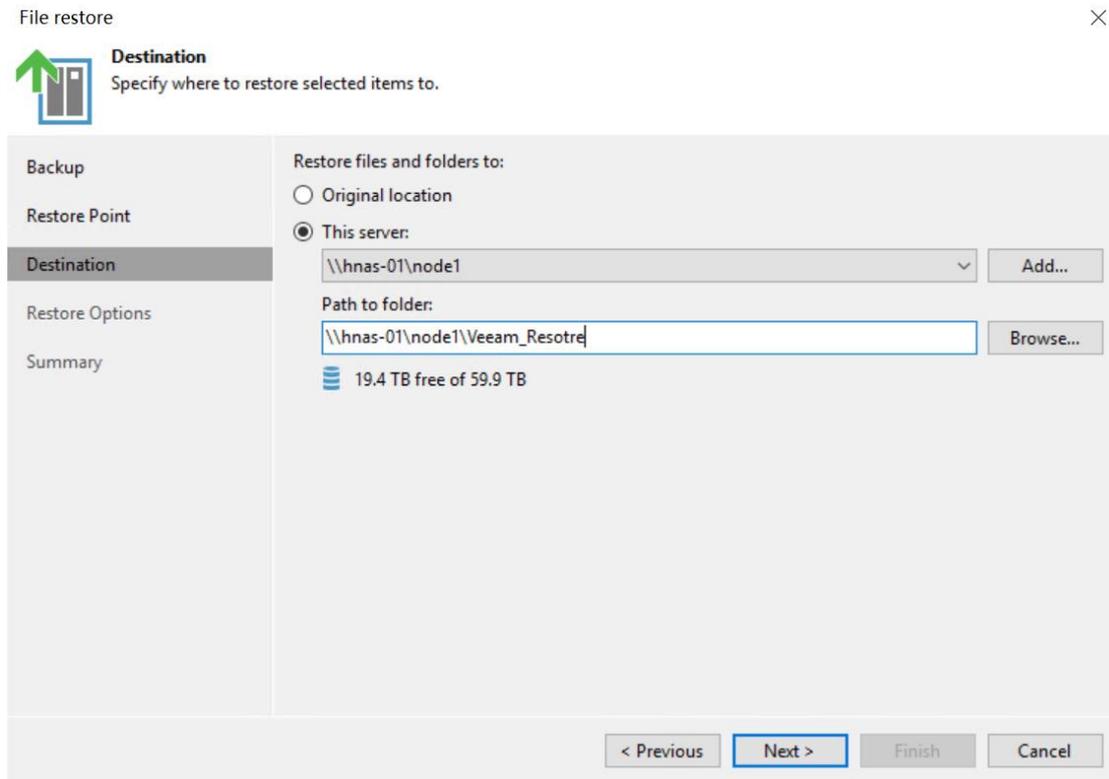
选择 Entire file share。如果有多个备份点，就会有多个还原点。根据需要来选择即可。



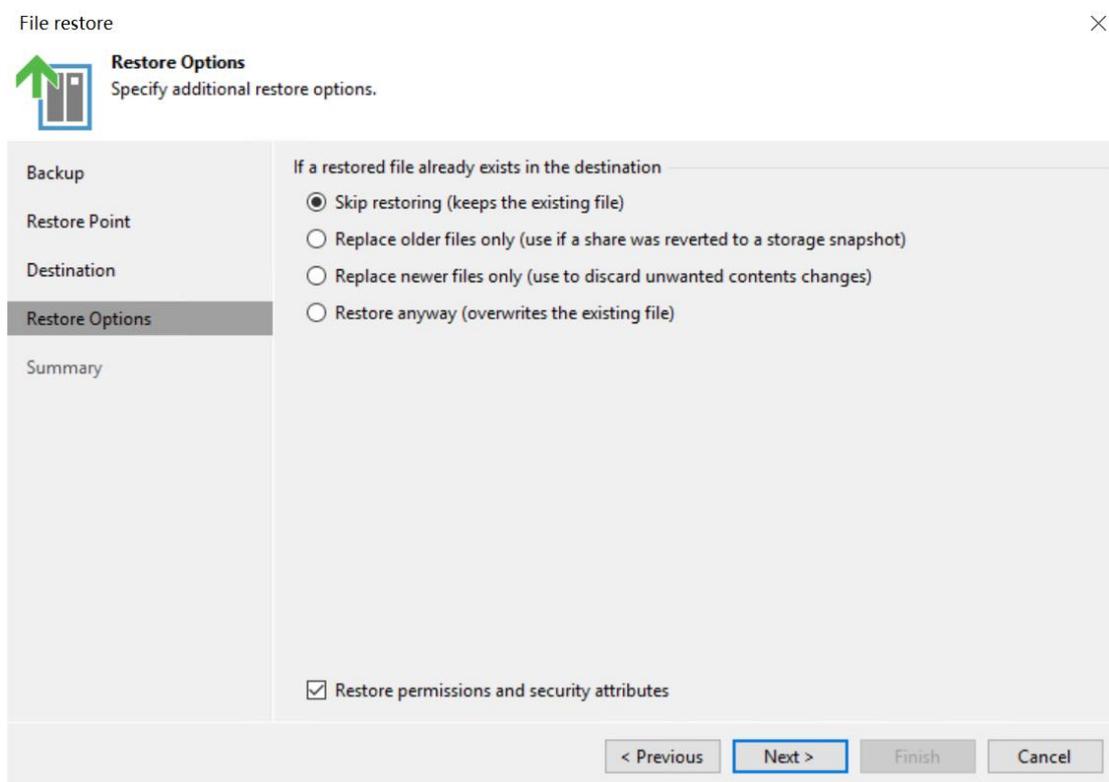
选择恢复的目标位置。可以是原始位置，**请注意：选择该选项时，如果 NAS 存储上仍有文件，Veeam 在恢复时会覆盖原有文件的。**



也可以选择其他位置，或者新建一个文件夹。这样就不会覆盖原文件。



保持默认。注意：Veeam 恢复时，是带文件权限恢复的。

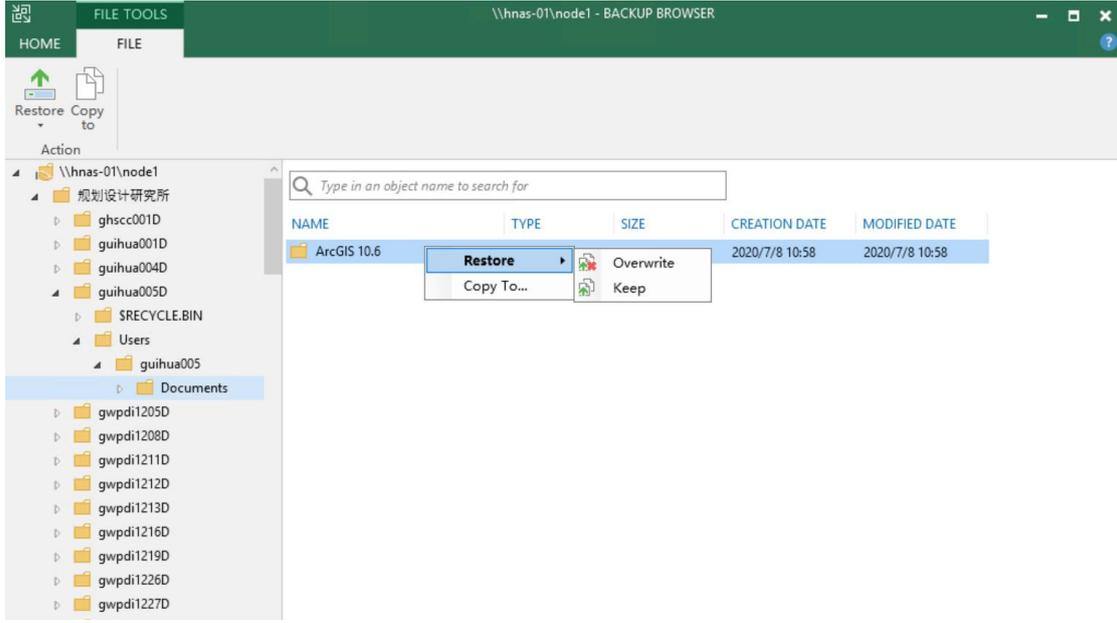


点击 Next，即可完成恢复向导。

选择 Files and folder，实现单个文件恢复。

JOB NAME ↑	CREATION TIME
hans-01_node1_规划设计研究所 to DD_over_IP	2020/10/19 18:45
\\hnas-01\node1	2020/10/19 18:45
hans-01_node1_桂海	2020/10/19 18:45
hans-01_node1_后勤	2020/10/19 18:45
hans-01_node1_监察安监_建筑设计分院_经营生产	2020/10/19 18:45
hans-01_node1_数字化中心_空间信息测绘中心 to DD_over_IP	2020/10/19 19:21
hans-01_node1_水保环评设计研究所_水工环评设计研究所 to DD_ov...	2020/10/19 22:22
hans-01_node1_信息中心_副总工 to DD_over_IP	2020/10/20 6:27
hans-02_node2_规划设计研究所 to DD_over_IP	2020/10/19 18:55
hans-02_node2_桂海咨询中心_桂禹公司 to DD_over_IP	2020/10/20 12:03
hans-02_node2_勘测总队 to DD_over_IP	2020/10/19 19:27
hans-02_node2_数字化中心_空间信息测绘中心 to DD_over_IP	2020/10/19 19:21
hans-02_node2_水保环评设计研究所_水工环评设计研究所 to DD_ov...	2020/10/20 0:24
hans-02_node2_信息中心_副总工 to DD_over_IP	2020/10/20 11:40

选择需要恢复的文件夹、或者是文件，右键后出现 Restore。选择 Overwrite 即是覆盖性恢复。（如果 NAS 上有这个文件时，会覆盖的）。选择 Keep 即是保留性恢复。（如果 NAS 上有这个文件时，不会覆盖原有文件的，会生成一个其他命名的文件）



选择 Copy to，即是恢复到其他服务器、或者是其他位置。