

# Efficient Backup of a Virtual Environment with Veeam Backup & Replication and SnapServer® NAS

Virtualisation enables your computers to run multiple operating systems and applications, maximizing performance and efficiency of IT systems whilst reducing costs. Within a virtualised environment data is stored across multiple physical devices, this increases complexity of backups and restore tasks, and highlights the importance of having all encompassing data protection solutions.

Through our technology partnership Overland-Tandberg and Veeam have combined best in class hardware and software to provide small and medium businesses with a turnkey data protection solution for virtual environments.

## Overland-Tandberg SnapServer

The SnapServer family offers enterprise class management and data protection features. The SnapServer features include DynamicRAID for seamless storage expansion by adding or replacing hard drives as capacity needs change. In addition, all SnapServer storage volumes can grow or shrink dynamically within the storage pool without IT intervention, preventing costly provisioning errors and unnecessary upgrades.

## Veeam Backup & Replication

Veeam Backup & Replication offers fast and reliable Backup and Restore of VMware vSphere® and Veeam Backup & Replication is the industry leading data protection software for virtualised environments. Powered by Veeam vPower-Technology, Veeam Backup & Replication offers high performance, scalable and reliable data protection for VMware vSphere® and Microsoft® Hyper-V environments.

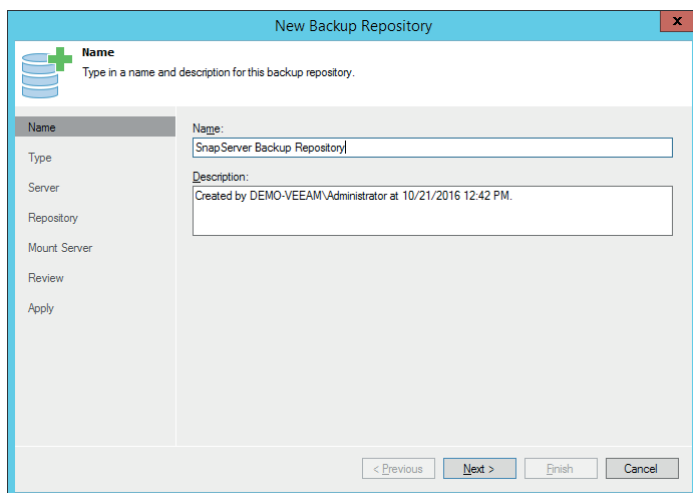
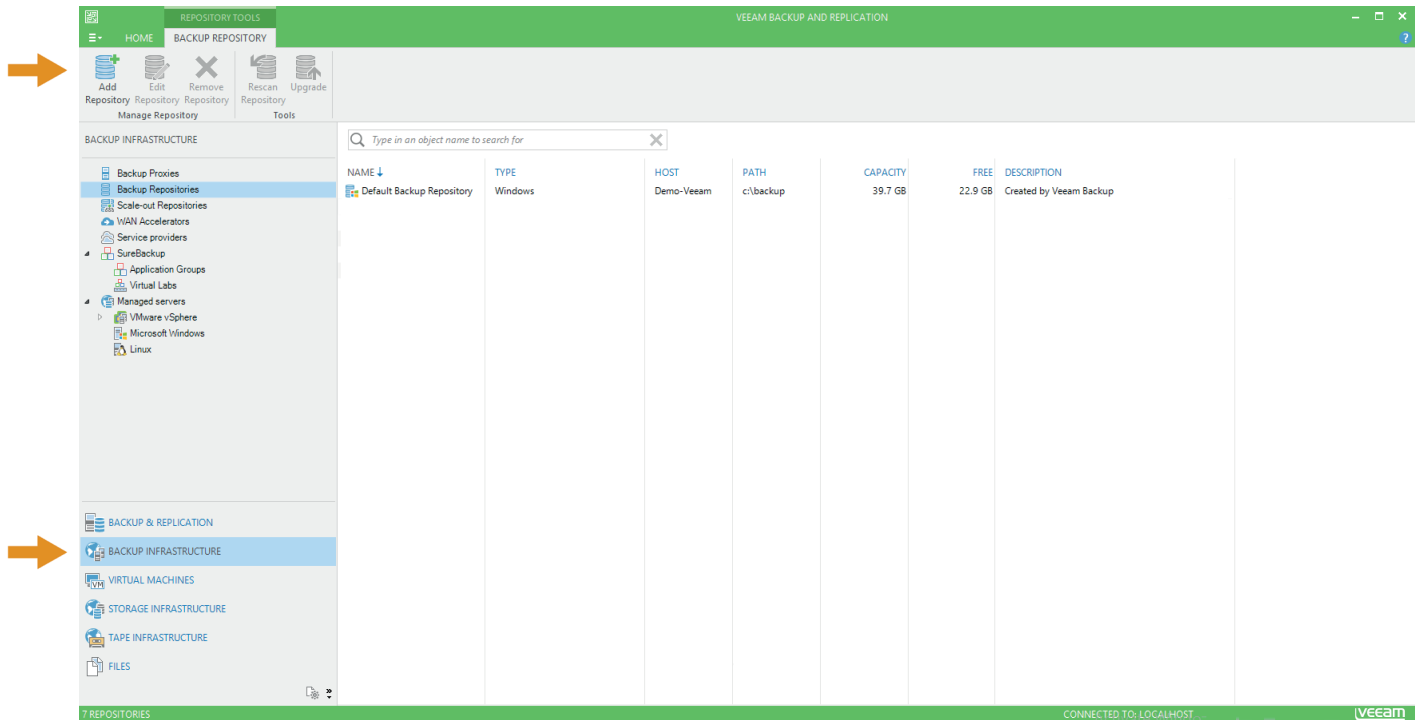


**snapserver®**  
family of NAS solutions



## Create a Backup Repository for SnapServer

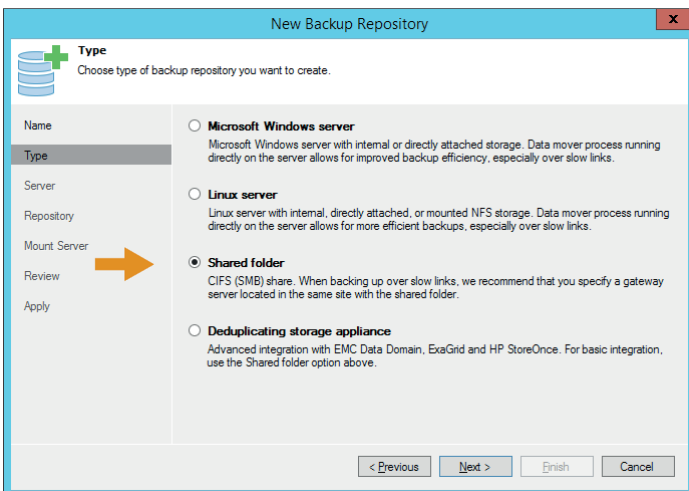
Before SnapServer can be used as a backup target, a backup repository needs to be defined.



From your Veeam Backup & Replication homescreen choose "BACKUP INFRASTRUCTURE." Then choose "Backup Repositories."

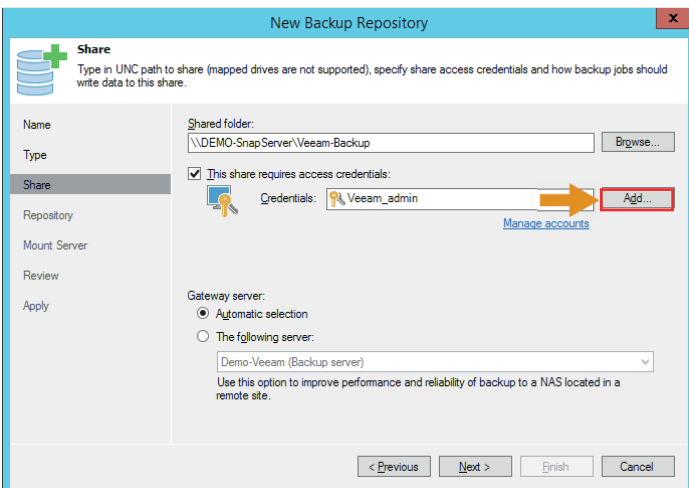
From the top menu choose "Add Repository". The Add Repository wizard starts up. First, type in a name for your new backup repository.

Click "Next."



Choose “Shared folder” for the SnapServer NAS system.

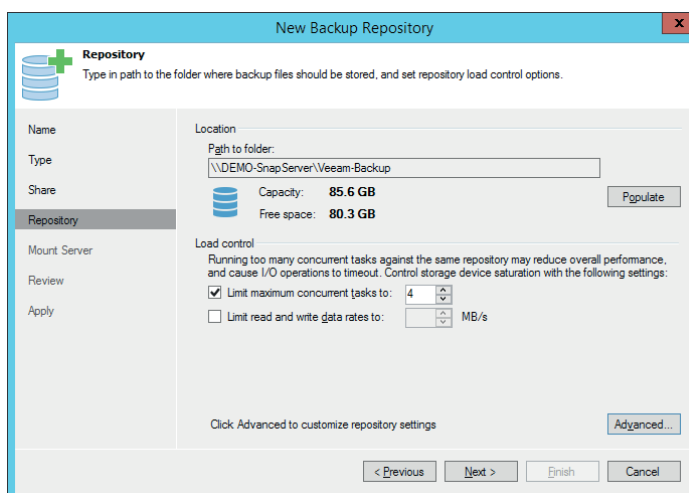
Click “Next.”



Choose a share on your SnapServer where backups should be written.

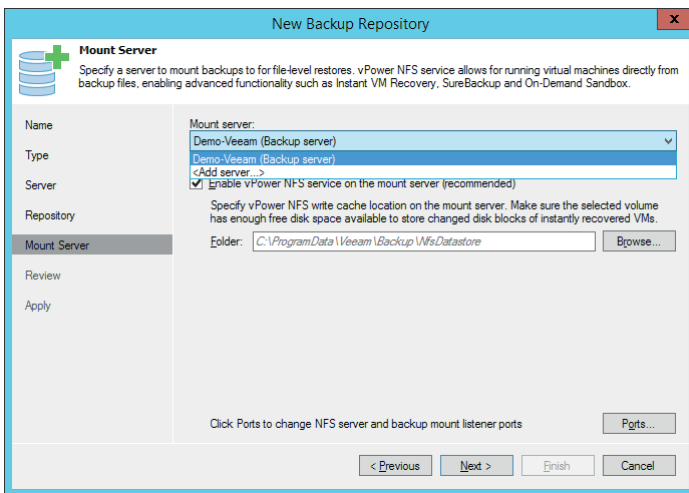
Usually you need to logon to your SnapServer. Check the appropriate box and click on “Add” to create an account including your username and password and a description.

Click “Next.”



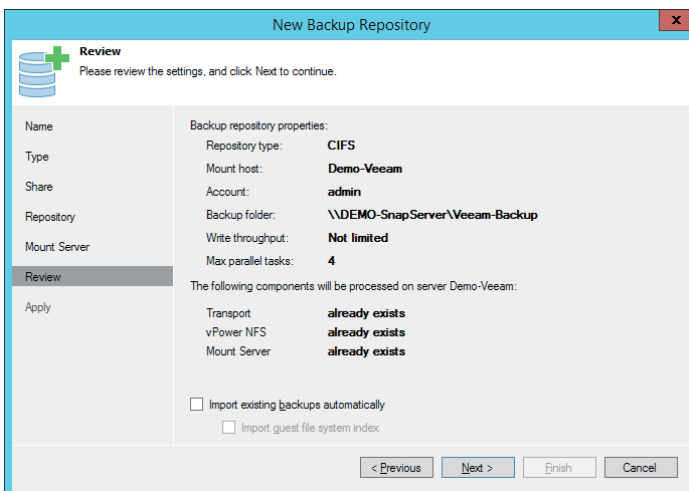
Limit the maximum concurrent tasks depending on your network bandwidth. We recommend to set it to “4.”

Click “Next.”



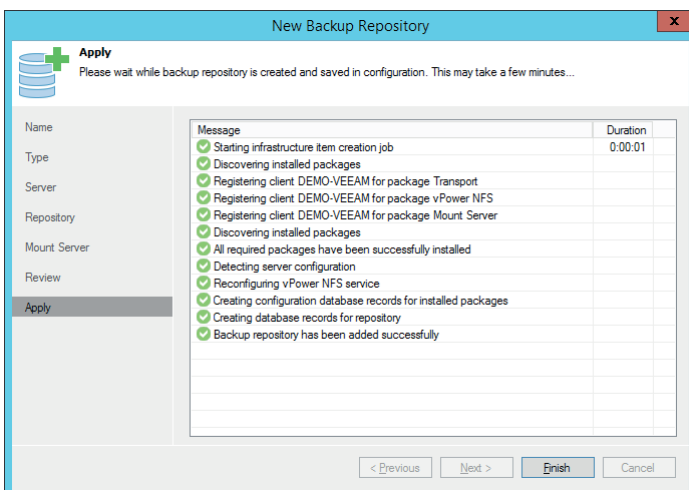
Mount a server for file-level restores (usually the same as the backup server).

Click "Next."



Review your settings.

Click "Next."

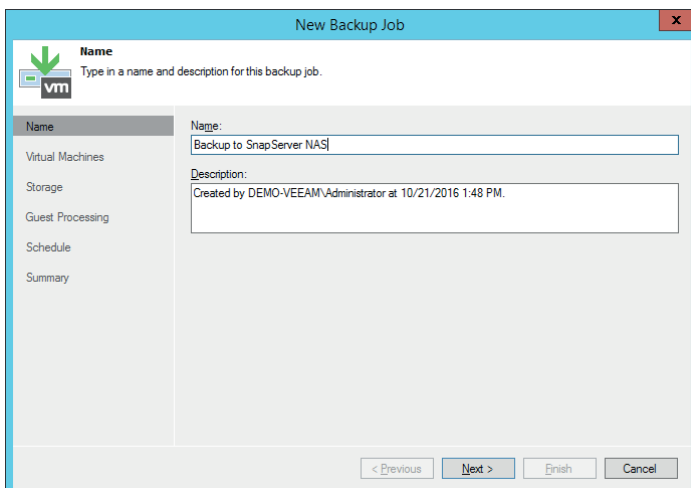
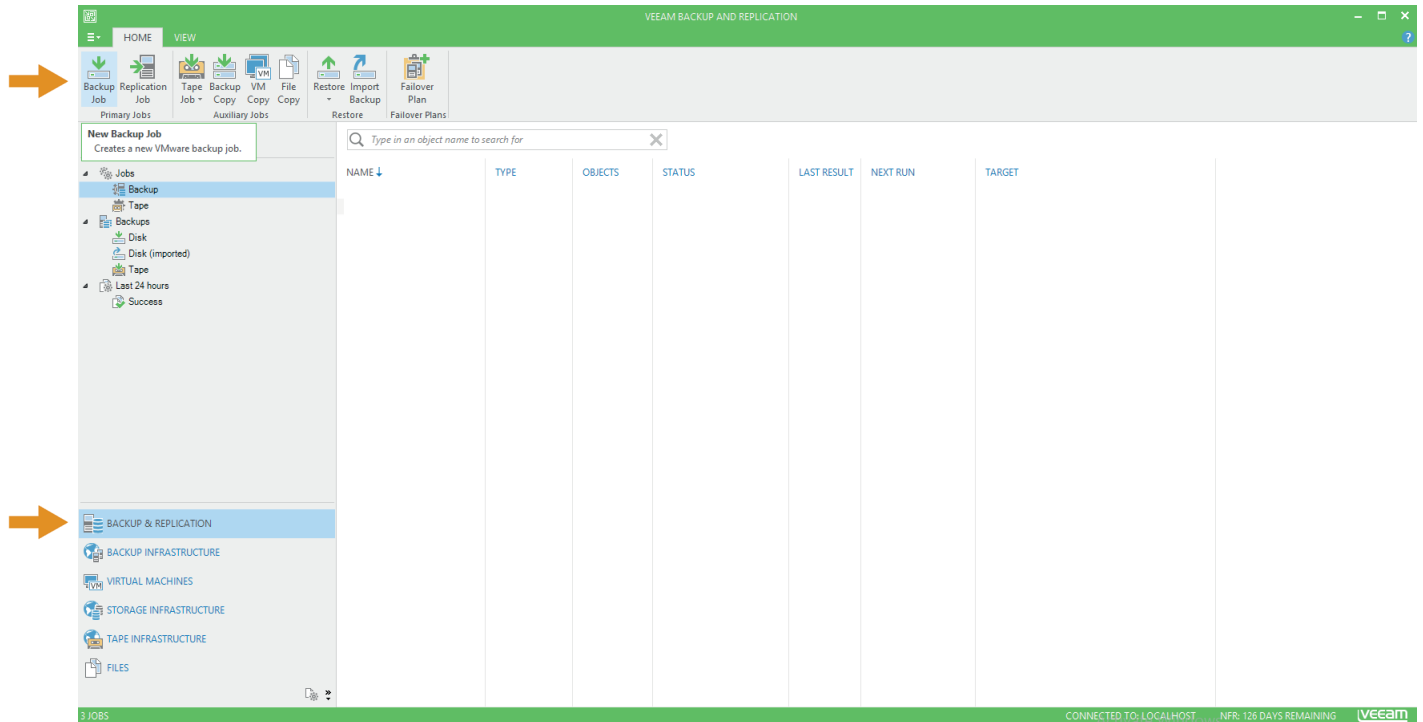


Your backup repository will be created.

Click "Finish" to exit this menu.

## Create a Backup Job

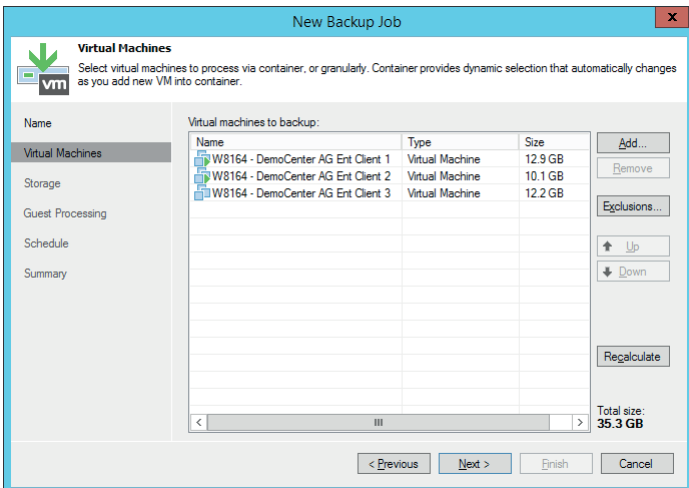
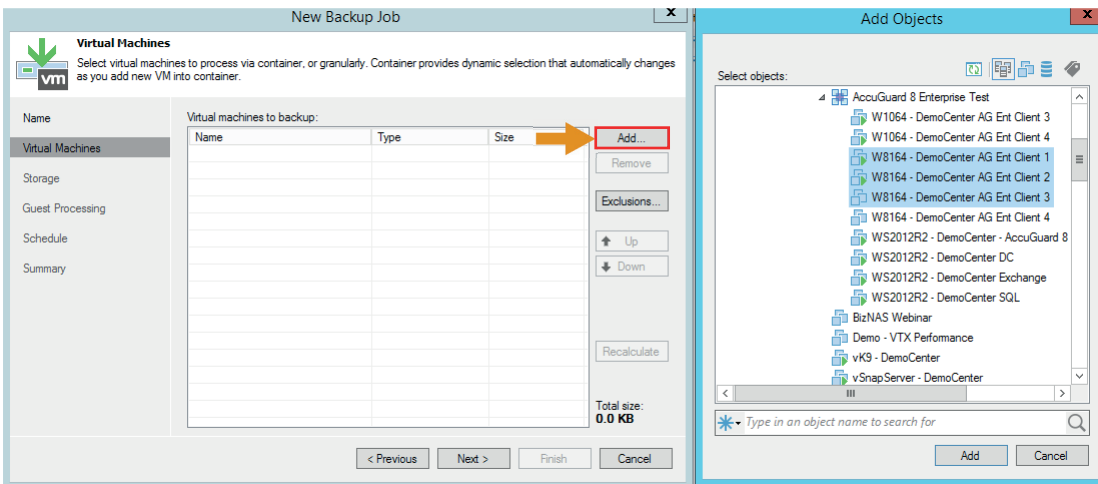
Now we are ready to create a backup job.



From your homescreen choose "Backup & Replication." Then choose "Backup."

From the top menu choose "New Backup Job". The New Backup Job wizard starts up. First, type in a name for your new job.

Click "Next."

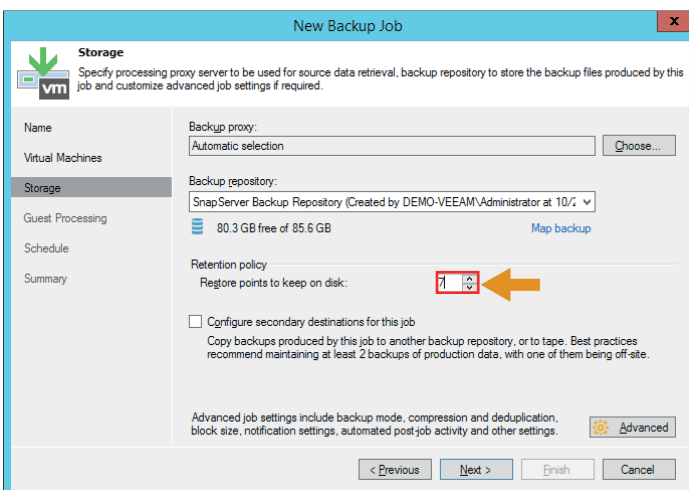


Choose the virtual machines you like to back up by clicking “Add.”

Select the desired machines and click “Add.”

The selected machines are displayed and the total storage size is calculated.

Click “Next.”

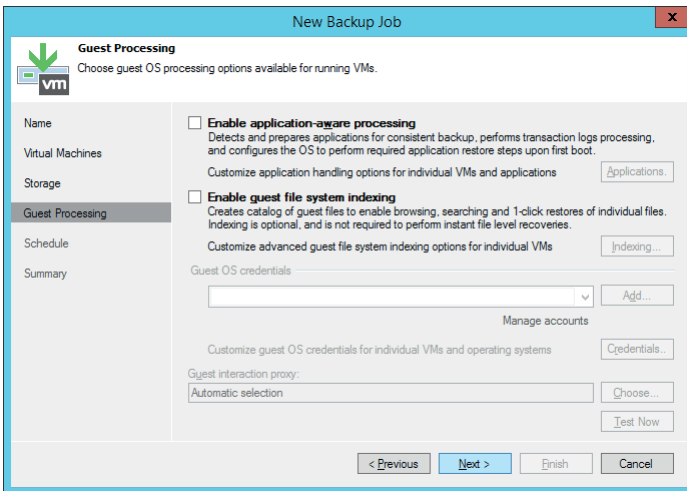


Choose the backup repository we just created as the backup target.

Specify the number of recovery points depending on your backup strategy.

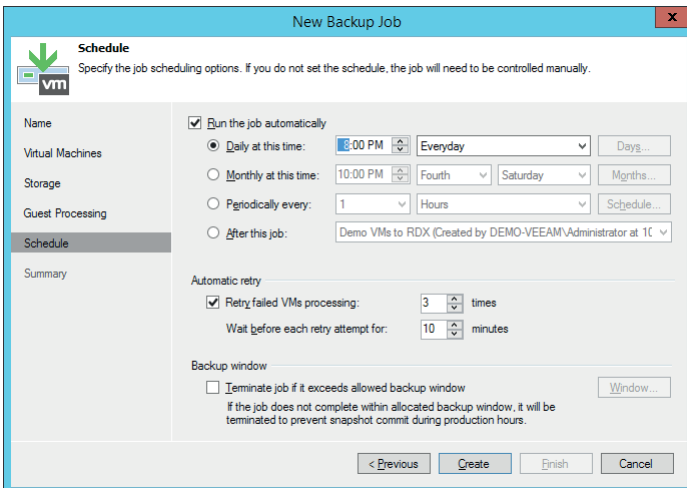
You might choose some advanced options by clicking “Advanced.”

Click “Next.”



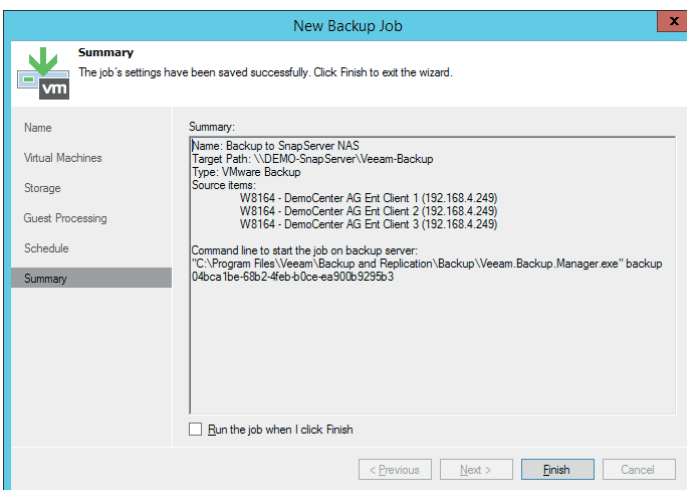
In case of database or exchange backups, choose guest processing options. Otherwise skip this menu.

Click "Next."



Setup the backup schedule according to your requirements.

Click "Create."

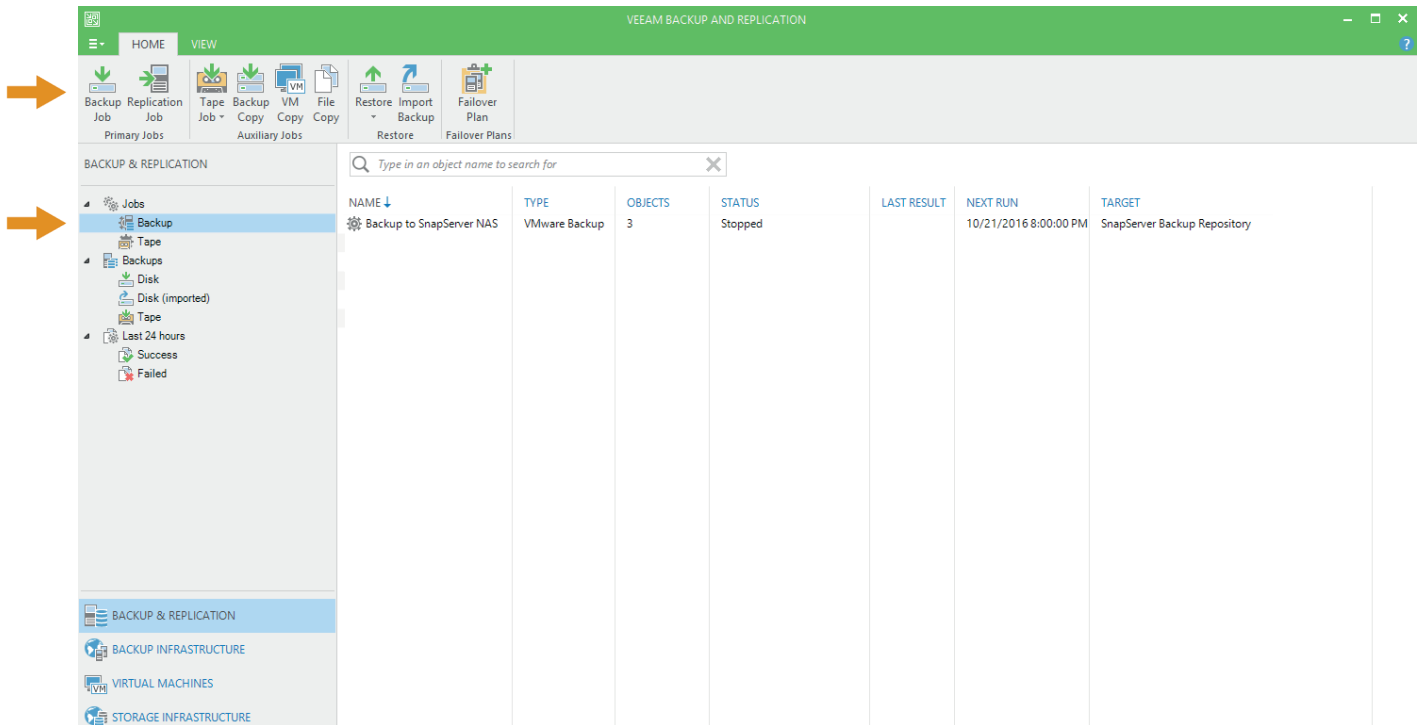


The backup job is created. Your backup settings are displayed

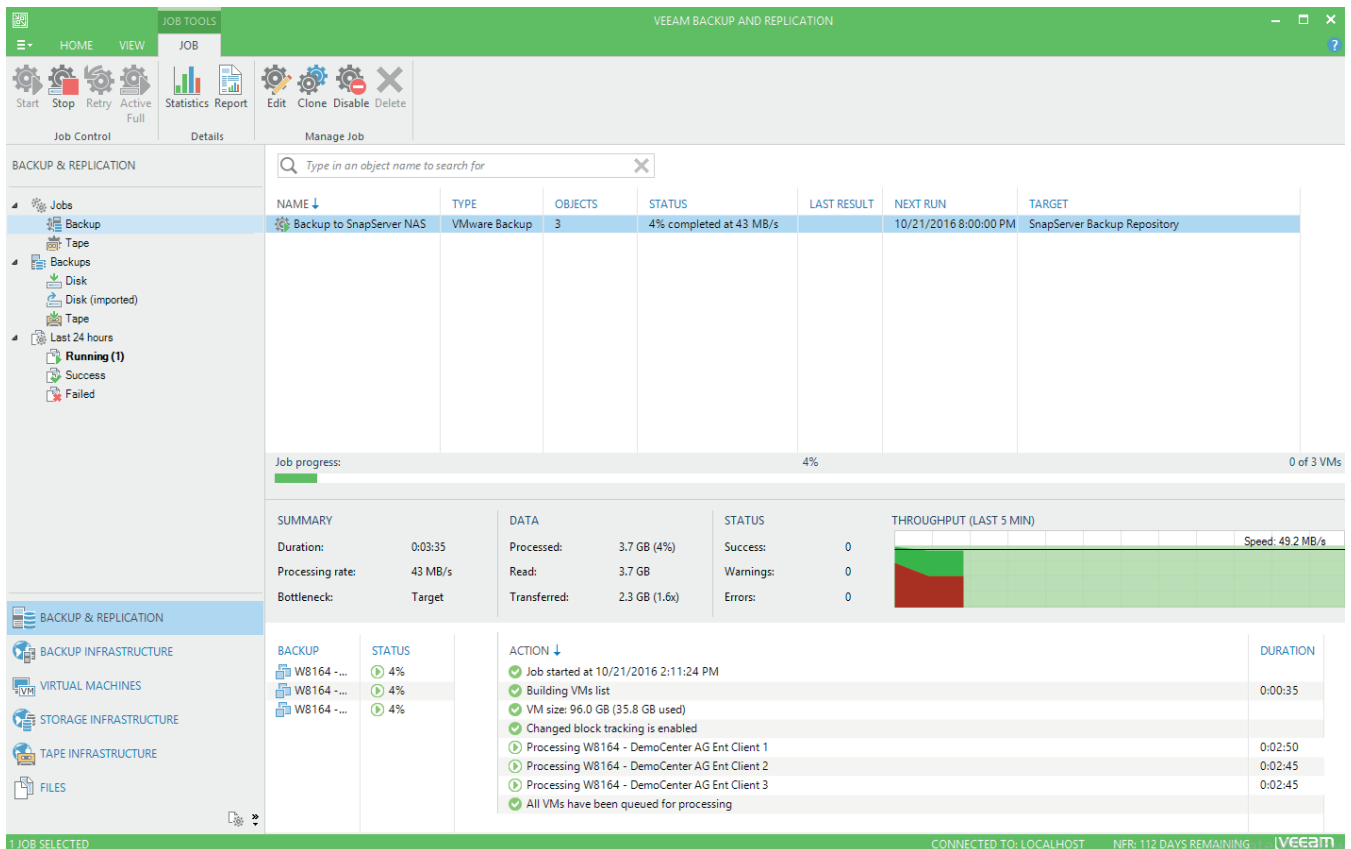
Click "Finish."

## Run your Backup Job

The backup job has been created successfully and will run according to the specified schedule. However, you can start the backup job at any time by selecting the job and clicking “Start.”



The backup job has started. Informations about status and progress are displayed.





The backup job has finished successfully.

The screenshot displays the Veeam Backup and Replication console. The main window shows a job named 'Backup to SnapServer NAS' with a status of 'Stopped' and a last result of 'Success'. The job details include a duration of 0:14:07, a processing rate of 51 MB/s, and a bottleneck at the target. The data section shows 35.8 GB processed (100%), 33.3 GB read, and 14.4 GB transferred (2.3x). The status section indicates 3 successes, 0 warnings, and 0 errors. The throughput graph shows a speed of 104.1 MB/s. The action log shows the job starting at 10/21/2016 2:11:24 PM and successfully building VMs list, processing VM size (96.0 GB, 35.8 GB used), and processing two VMs: 'DemoCenter AG Ent Client 1' (0:12:54) and 'DemoCenter AG Ent Client 2' (0:12:33).

NAME	TYPE	OBJECTS	STATUS	LAST RESULT	NEXT RUN	TARGET
Backup to SnapServer NAS	VMware Backup	3	Stopped	Success	10/21/2016 8:00:00 PM	SnapServer Backup Repository

SUMMARY	DATA	STATUS
Duration: 0:14:07	Processed: 35.8 GB (100%)	Success: 3
Processing rate: 51 MB/s	Read: 33.3 GB	Warnings: 0
Bottleneck: Target	Transferred: 14.4 GB (2.3x)	Errors: 0

BACKUP	STATUS	ACTION	DURATION
W8164 - ...	Success	Job started at 10/21/2016 2:11:24 PM	
W8164 - ...	Success	Building VMs list	0:00:35
W8164 - ...	Success	VM size: 96.0 GB (35.8 GB used)	
		Changed block tracking is enabled	
		Processing W8164 - DemoCenter AG Ent Client 1	0:12:54
		Processing W8164 - DemoCenter AG Ent Client 2	0:12:33

## Recommendations

We highly recommend to create a second copy of the backup to perform full disaster protection. This should be done on a removable media like Tape or RDX.

Please refer to the corresponding integration briefs on [our website](#).