



[Date]

PROCEDURE D'INSTALLATION

VEEAM

DJEDIDEN Nadir
[NOM DE LA SOCIETE]

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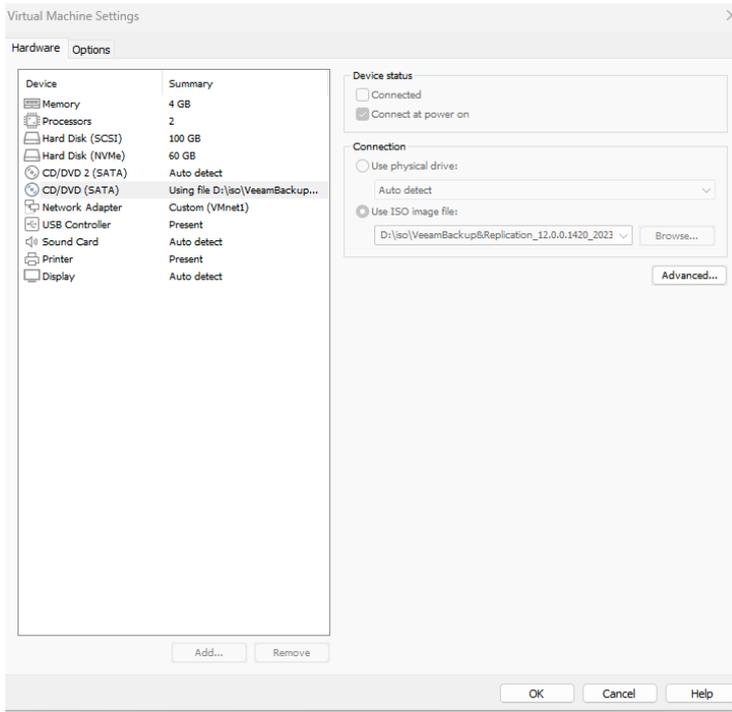
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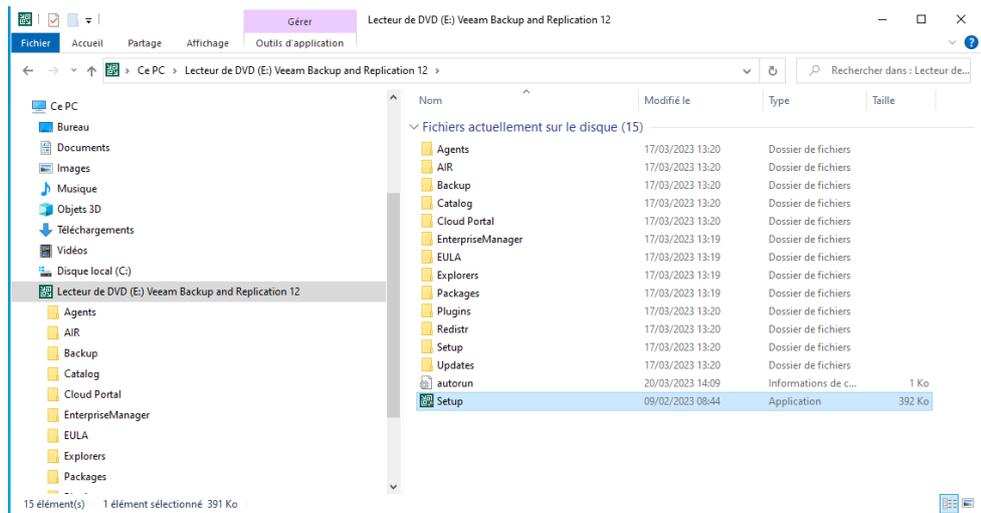
1. Procédure d'installation Veeam Backup & Réplication 12

- a. N'oubliez pas de rajouter votre iso Veeam Backup en allant dans les paramètres de votre machine et en ajoutant un nouveau CD/DVD (SATA).

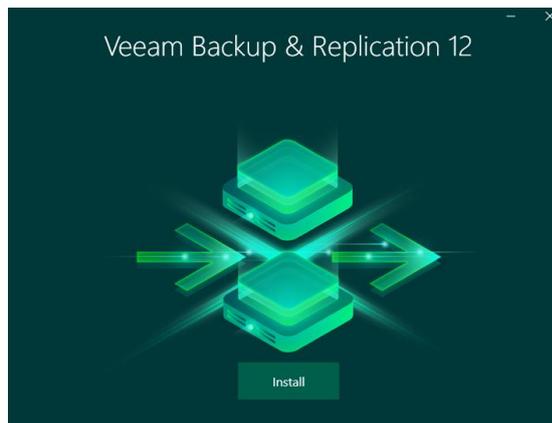




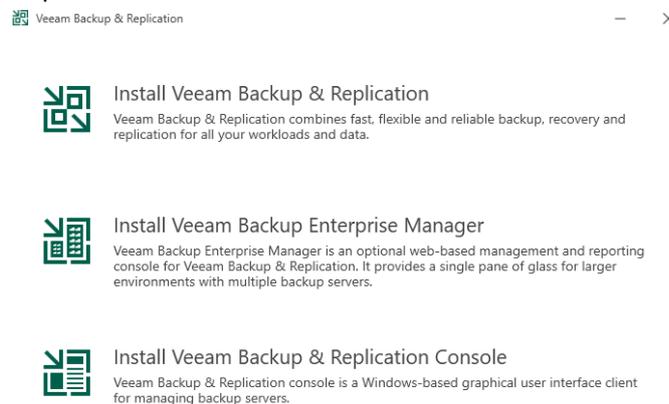
b. Lancer le Setup de l'ISO Veeam Backup & Réplication 12



c. Cliquez sur Install



d. Plusieurs versions s'offrent à vous. Pour faire des tests de sauvegarde le premier sera amplement suffisant.



e. Accepter les conditions



Veeam Backup & Replication

License Agreement

Read the license agreements and accept them to proceed.

Please view, print or save the documents linked below.

By clicking "I Accept" button, I hereby accept the following:

- Agree and consent to the terms of [Veeam License Agreement](#) and [licensing policy](#)
- Agree and consent to each of the license agreements of [3rd party components](#) used
- Agree and consent to each of the license agreements of [required software](#)

Back I Accept Cancel

f. Pour le moment nous n'avons pas besoin de License, donc cliquez sur suivant.

Veeam Backup & Replication

License

Provide license file for Veeam Backup & Replication.

License file: [Browse...](#)

Update license automatically (enables usage reporting)

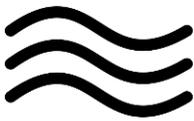
Download and install new license automatically when you renew or expand your contract. This requires sending the license ID, the installation ID, and workload usage counters to Veeam servers periodically. Successful usage reporting doubles the number of workloads you can exceed your installed license by.

If you don't have a license simply click Next to install the Community Edition.

i Veeam EULA prohibits using Community Edition to provide any services to third parties. In particular, you may not install, configure or manage such backup servers at your client's environment as a consultant or an MSP.

Back Next Cancel

g. Faites suivant jusqu'à arriver ici. Après la vérification faites suivant.



System Configuration Check

System is being verified for potential installation problems.



Please wait...

Enabling missing features...

Back

Next

Cancel

- h. Maintenant nous pouvons débuter l'installation, laisser les options par défaut et cliquer sur Install.

Ready to Install

Installation will begin with the following settings.

Installation folder:	C:\Program Files\Veeam\Backup and Replication
vPower cache folder:	C:\ProgramData\Veeam\Backup\IRCache
Guest catalog folder:	C:\VBRCatalog
Service account:	LOCAL SYSTEM
Database engine:	PostgreSQL
SQL server:	Pc01:5432
Database name:	VeeamBackup
Catalog service port:	9393
Service port:	9392
Secure connections port:	9401
REST API service port:	9419
Check for product updates:	Automatically

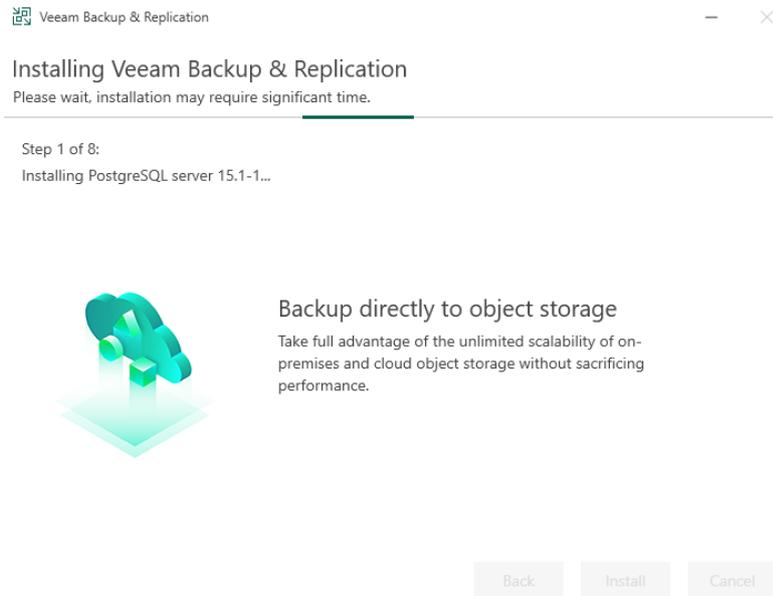
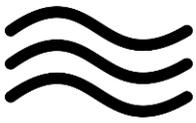
[Customize Settings](#)

Back

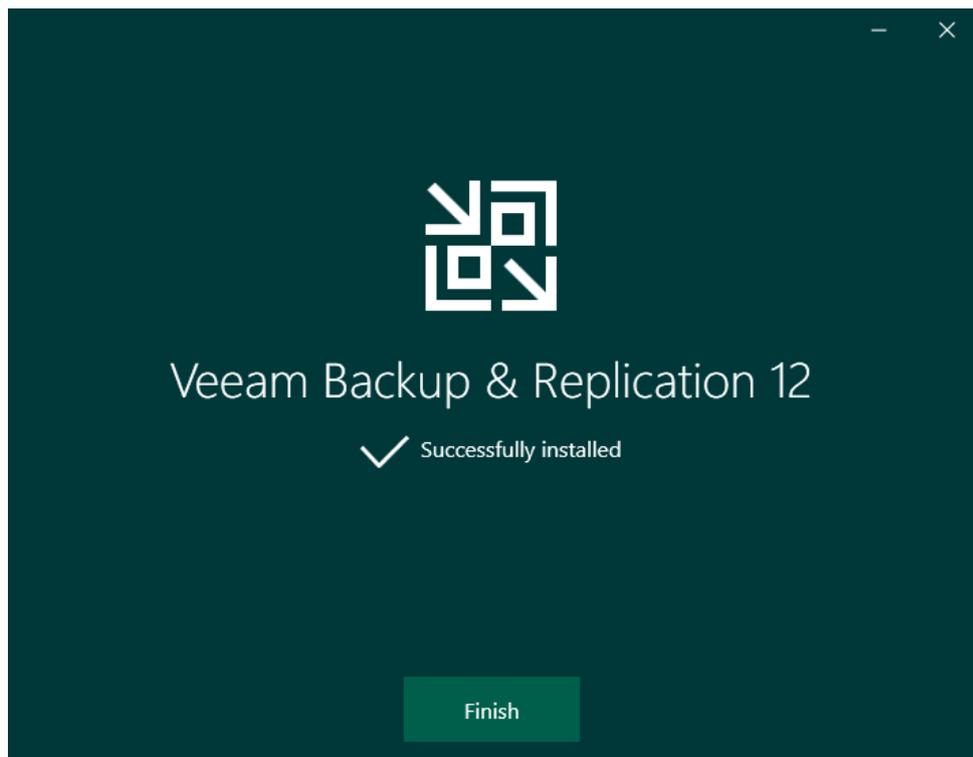
Install

Cancel

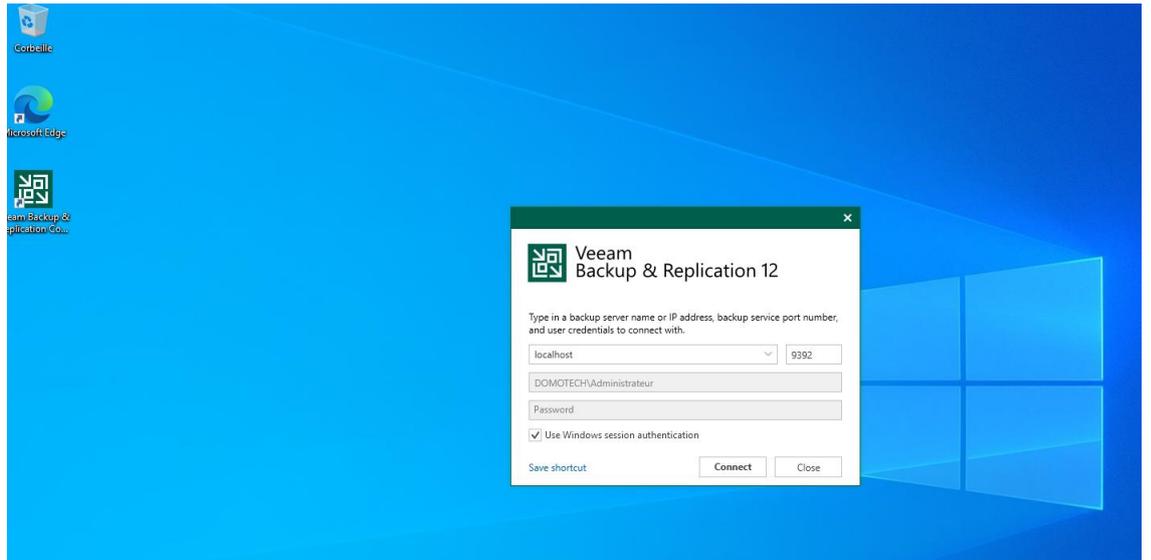
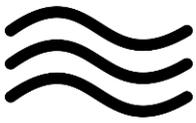
- i. Patientez pendant l'installation



- j. Voilà Veeam à terminer les étapes d'installation, cliquez sur Finish



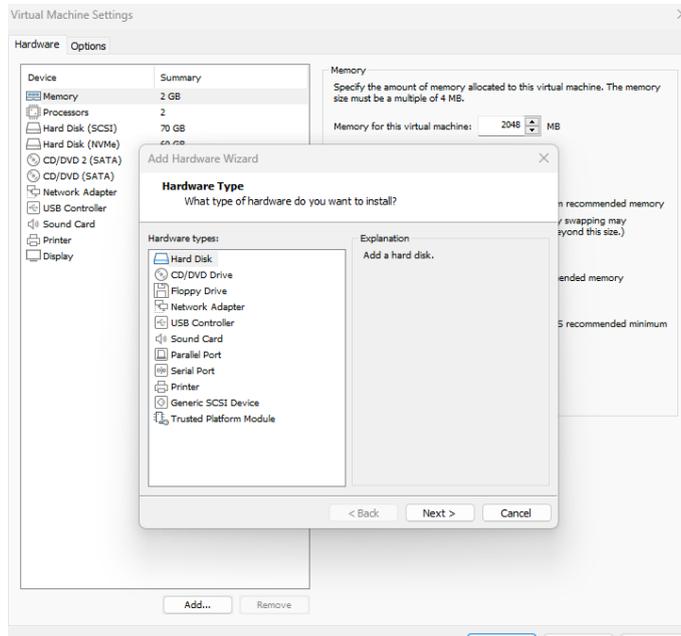
- k. Pour ouvrir Veeam Backup & Réplication, vous trouverez l'icône de la console Veeam, double cliquez dessus et connectez vous en localhost avec l'identifiant et mot de passe déjà sauvegarder par Veeam.



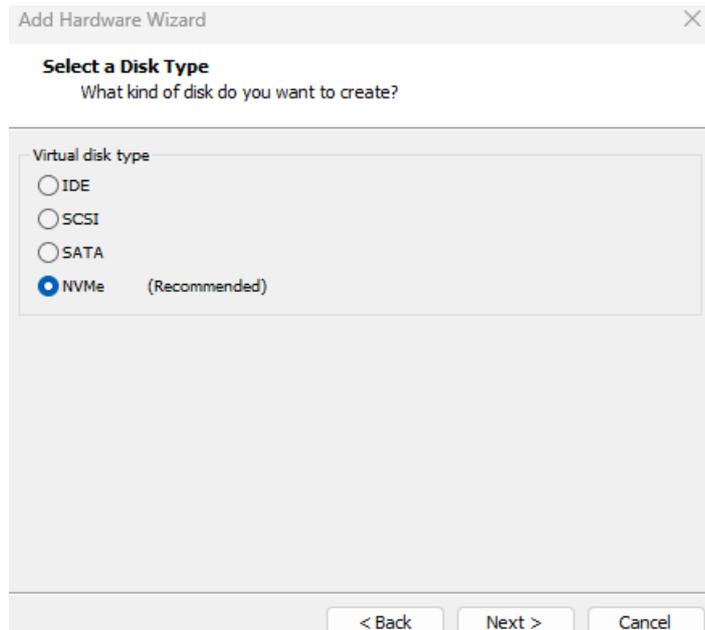


2. Ajout d'un disque dur physique dans la machine virtuelle.

- a. Dans le menu de la machine ajouter un nouveau disque dur



- b. Laisser par défaut





- c. Sélectionnez créer un nouveau disque virtuel

The screenshot shows the 'Add Hardware Wizard' dialog box with the title 'Add Hardware Wizard' and a close button (X). The main heading is 'Select a Disk' with the question 'Which disk do you want to use?'. Below this, there is a section titled 'Disk' containing three radio button options:

- Create a new virtual disk
A virtual disk is composed of one or more files on the host file system, which will appear as a single hard disk to the guest operating system. Virtual disks can easily be copied or moved on the same host or between hosts.
- Use an existing virtual disk
Choose this option to reuse a previously configured disk.
- Use a physical disk (for advanced users)
Choose this option to give the virtual machine direct access to a local hard disk. Requires administrator privileges.

At the bottom of the dialog box, there are three buttons: '< Back', 'Next >', and 'Cancel'.

- d. Définissez la taille de votre espace de stockage et sélectionnez « store virtual disk »

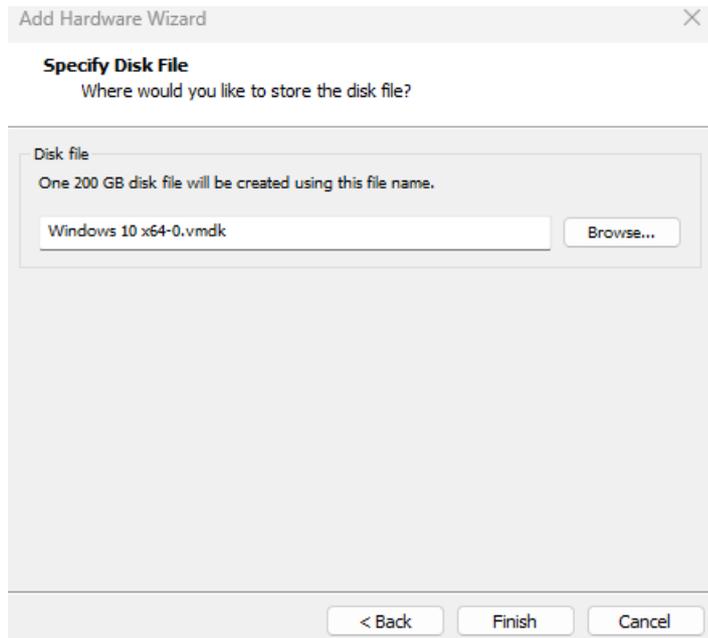
The screenshot shows the 'Add Hardware Wizard' dialog box with the title 'Add Hardware Wizard' and a close button (X). The main heading is 'Specify Disk Capacity' with the question 'How large do you want this disk to be?'. Below this, there is a section containing a spin box for 'Maximum disk size (GB):' set to '100.0', and a note: 'Recommended size for Windows 10 x64: 60 GB'. There are three radio button options:

- Allocate all disk space now.
Allocating the full capacity can enhance performance but requires all of the physical disk space to be available right now. If you do not allocate all the space now, the virtual disk starts small and grows as you add data to it.
- Store virtual disk as a single file
- Split virtual disk into multiple files
Splitting the disk makes it easier to move the virtual machine to another computer but may reduce performance with very large disks.

At the bottom of the dialog box, there are three buttons: '< Back', 'Next >', and 'Cancel'.



- e. La dernière étape est d'enregistrer cette espace de stockage dans un disque dur physique.

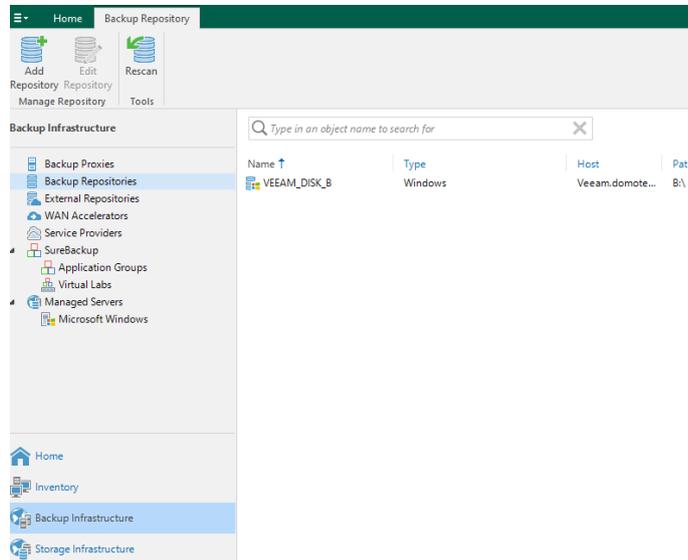




3. Création d'un espace de stockage pour les backups dans Veeam :

Maintenant que vous avez ajouté un nouvel espace de stockage, vous allez ajouter un nouvel espace de stockage dans Veeam qui enregistrera vos sauvegardes dans ce disque dur virtuel.

a. Cliquez sur Add Repository



b. Sélectionnez Direct Attached Storage

Add Backup Repository

Select the type of backup repository you want to add.



Direct attached storage

Microsoft Windows or Linux server with internal or direct attached storage. This configuration enables data movers to run directly on the server, allowing for fastest performance.



Network attached storage

Network share on a file server or a NAS device. When backing up to a remote share, we recommend that you select a gateway server located in the same site with the share.



Deduplicating storage appliance

Dell Data Domain, ExaGrid, Fujitsu ETERNUS CS800, HPE StoreOnce, Infinidat InfiniGuard or Quantum DXi. If you are unable to meet the requirements of advanced integration via native appliance API, use the network attached storage option instead.



Object storage

On-prem object storage system or a cloud object storage provider.

Cancel

c. Entrer un nom de stockage



New Backup Repository

Name
Type in a name and description for this backup repository.

Name
Backup VM

Description
Created by DOMOTECH\Administrateur at 08/04/2023 16:41.

Repository

< Previous Next > Finish Cancel

- d. Ajouter l'emplacement du répertoire dans le disque que vous avez créé précédemment et cliquez sur suivant et laissez tout par défaut jusqu'à la fin.

New Backup Repository

Repository
Type in path to the folder where backup files should be stored, and set repository capacity and load control.

Name
Server

Repository

Location
Path to folder:
Capacity: <Unknown>
Free space: <Unknown>

Load control
Running too many concurrent tasks against the repository can cause I/O timeouts. Control storage device saturation.
 Limit maximum concurrent tasks to: 2
 Limit read and write data rate to: 1

Click Advanced to customize repository settings.

Select Folder

Folders:
Veeam.domotech.priv
backup & replication (B:\)
\$RECYCLE.BIN
Domotech
srv-domotech-replication
System Volume Information
C:\
D:\
VEEAM BACKUP (E:\)

< Previous New Folder OK Cancel

- e. Une fois votre disque configuré, vous pouvez supprimer le disque par défaut.

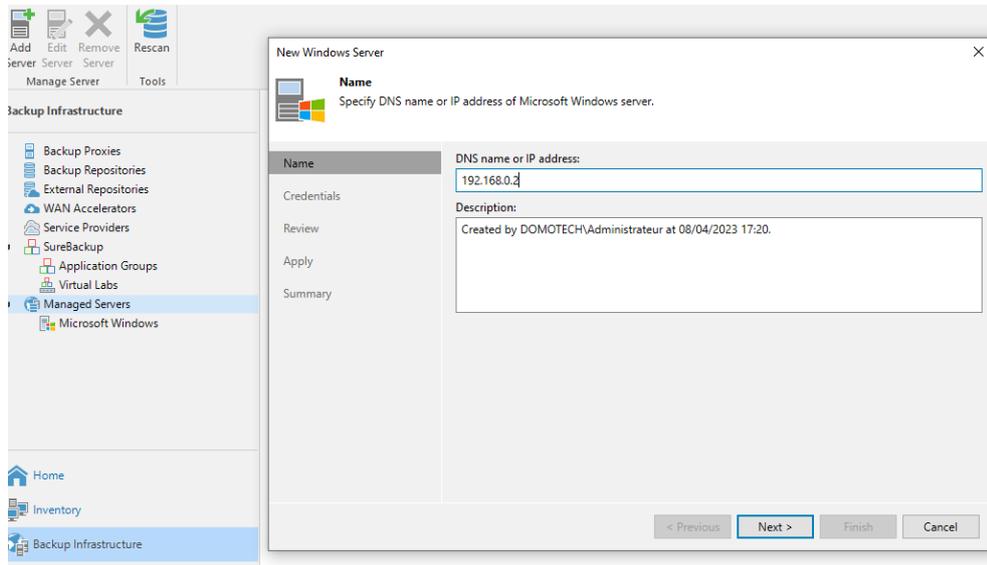


Type in an object name to search for					
Name ↑	Type	Host	Path	Capacity	Free
VEEAM_DISK_B	Windows	Veeam.domote...	B:\	100 GB	90 GB

4. Ajout de la machine à sauvegarder :

Avant de créer un Job, vous devrez d'abord ajouter le serveur à sauvegarder.
Pour y arriver, suivez les étapes ci-dessous.

- a. Pour commencer allez dans Backup Infrastructure, faites un clic droit et cliquez sur Add Server.
Puis entrez l'adresse IP du server Windows que vous souhaitez sauvegarder.





- b. Entrez votre identifiant et mot de passe administrateur du server.

The screenshot shows the 'New Windows Server' wizard at the 'Credentials' step. The title bar reads 'New Windows Server' with a close button. Below the title bar, there is a 'Credentials' section with the instruction 'Specify server credentials.' A sidebar on the left contains steps: 'Name', 'Credentials' (selected), 'Review', 'Apply', and 'Summary'. The main area contains the text: 'Select an account with local administrator privileges on the server you are adding. Use DOMAIN\USER format for domain accounts, or HOST\USER for local accounts.' Below this, it says 'Credentials:' followed by a dropdown menu showing 'Administrateur (Administrateur, last edited: less than a day ago)' and an 'Add...' button. A 'Manage accounts' link is also present. At the bottom, there is a 'Ports...' button and a note: 'Click Ports to customize network ports to be used by individual components.' Navigation buttons at the very bottom are '< Previous', 'Next >', 'Finish', and 'Cancel'.

- c. Voilà, maintenant votre server à été ajouter, me concernant l'adresse IP de mon server est 192.168.0.2

The screenshot shows the 'Manage Servers' console. On the left, there is a tree view under 'Backup Infrastructure' with categories: Backup Proxies, Backup Repositories, External Repositories, WAN Accelerators, Service Providers, SureBackup (expanded), Application Groups, Virtual Labs, Managed Servers (selected), and Microsoft Windows. On the right, there is a search bar with the placeholder 'Type in an object name to search for'. Below the search bar is a table of servers:

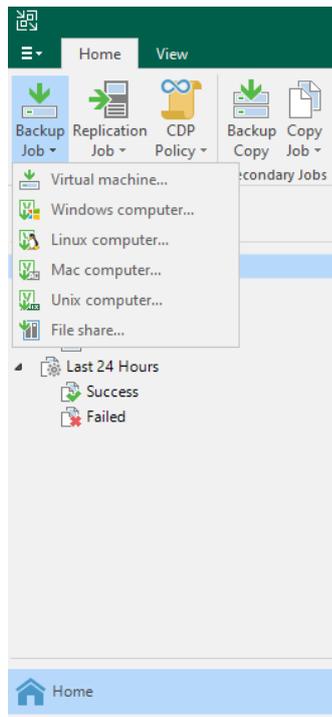
Name ↑	Type
192.168.0.2	Microsoft Windows server
Serv-principale.do...	Microsoft Windows server
Veeam.domotech.p...	Microsoft Windows server



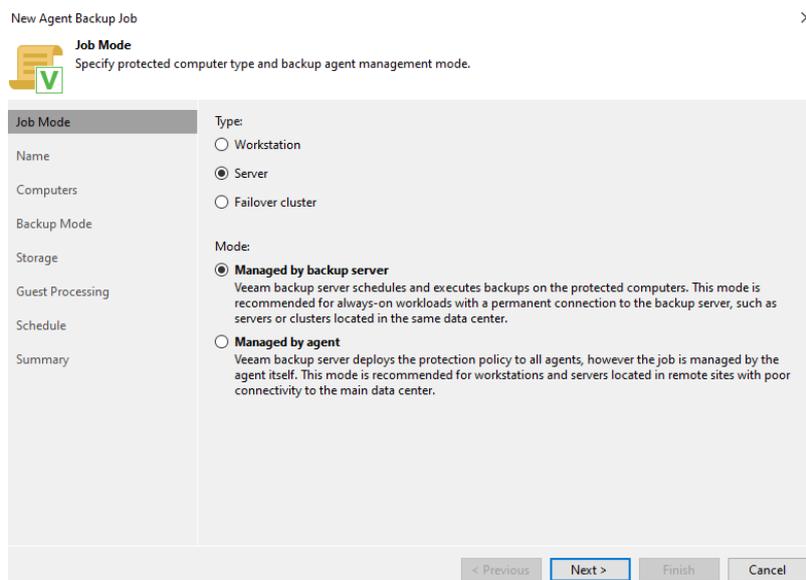
5. Création d'un job :

Le Job est une tâche de sauvegarde dans Veeam Backup & Réplication qui permet de définir la sauvegarde des données d'un ou plusieurs server et machines.

- a. Aller dans home, Passer la souris sur backup Job et prenez Windows computer.



- b. Sélectionnez Server et choisissez le premier mode qui est Managed By backup server.





c. Nommez votre Job et faites suivant

New Agent Backup Job ×

 **Name**
Type in a name and description for this agent backup job.

Job Mode

Name

Description:

High priority
Backup infrastructure resources are offered to high priority jobs first. Use this option for jobs sensitive to the start time, or jobs with strict RPO requirements.

< Previous Next > Finish Cancel

d. Cliquez sur Add et ajouter le serveur à sauvegarder, donc celui que vous avez ajouté tout à l'heure.

New Agent Backup Job ×

 **Computers**
Select protection groups or individual machines to back up. Protection groups provide a dynamic selection scope that automatically updates the list of protected machines as new ones are discovered.

Job Mode

Name

Computers

Protected computers:

Name	Type
192.168.0.4	Computer

Add...
Remove

↑ Up
↓ Down

< Previous Next > Finish Cancel



- e. C'est à vous de choisir la manière dont vous voulez sauvegarder votre serveur, dans cette procédure nous choisirons le volume Level Backup

The screenshot shows the 'New Agent Backup Job' dialog box with the 'Backup Mode' tab selected. The title bar reads 'New Agent Backup Job' and the subtitle is 'Backup Mode Choose what data you want to back up from selected computers.' The left sidebar contains a list of tabs: Job Mode, Name, Computers, Backup Mode (selected), Objects, Storage, Guest Processing, Schedule, and Summary. The main area has three radio button options: 'Entire computer' (unselected), 'Volume level backup' (selected), and 'File level backup (slower)' (unselected). Each option has a brief description. At the bottom, there are four buttons: '< Previous', 'Next >', 'Finish', and 'Cancel'.

- f. Cliquez sur Add et sélectionnez OS volume

The screenshot shows the 'New Agent Backup Job' dialog box with the 'Objects' tab selected. The title bar reads 'New Agent Backup Job' and the subtitle is 'Objects Specify objects to include in the backup.' The left sidebar contains a list of tabs: Job Mode, Name, Computers, Backup Mode, Objects (selected), Storage, Guest Processing, Schedule, and Summary. The main area has two radio button options: 'Backup the following volumes only:' (selected) and 'Backup all volumes except the following:' (unselected). The first option has a table with one row containing 'OS volume' and an 'Add...' button to its right. The second option has an empty table and an 'Add...' button to its right. At the bottom, there are four buttons: '< Previous', 'Next >', 'Finish', and 'Cancel'.



- g. Sélectionnez le répertoire de stockage que vous avez créé dans backup infrastructure.
Mettez 1 et remplacer days par restore point.

New Agent Backup Job

Storage
Specify a backup repository to store the backup files produced by the backup job and customize advanced job settings if required.

Job Mode
Name
Computers
Backup Mode
Objects
Storage
Guest Processing
Schedule
Summary

Backup repository:
Backup Repository 1 (Created by VEEAM\Nadir Djediden at 07/04/2023 15:34.)
Querying... Map backup

Retention policy: 1 restore points

Keep certain full backups longer for archival purposes
Configure...

GFS retention policy is not configured

Configure secondary destinations for this job
Copy backups produced by this job to another backup repository, or tape. We recommend to make at least one copy of your backups to a different storage device that is located off-site.

Advanced job settings include backup mode, compression and deduplication, block size, notification settings, automated post-job activity and other settings. Advanced...

< Previous Next > Finish Cancel

- h. Laissez par défaut et cliquez sur suivant.

New Agent Backup Job

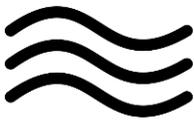
Guest Processing
Choose application processing options.

Job Mode
Name
Computers
Backup Mode
Objects
Storage
Guest Processing
Schedule
Summary

Enable application-aware processing
Detects and prepares applications for consistent backup, performs transaction logs processing, and configures the OS to perform required application restore steps upon first boot.
Customize application handling options for individual machines and applications Applications...

Enable guest file system indexing
Creates catalog of guest files to enable browsing, searching and 1-click restores of individual files. Indexing is optional, and is not required to perform instant file level recoveries.
Customize advanced guest file system indexing options for individual machines Indexing...

< Previous Next > Finish Cancel



- i. Ici c'est à vous de choisir votre stratégie de sauvegarde en fonction de l'utilisation de l'environnement. Pour ma part je préfère faire une sauvegarde chaque jour.

New Agent Backup Job ✕

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

Job Mode Run the job automatically

Name Daily at this time: 22:00 On these days: Days...

Monthly at this time: 22:00 Fourth samedi Months...

Periodically every: 1 Hours Schedule...

After this job: Domotech (Created by VEEAM\Nadir Djediden at 07/04/2023 14:35.)

Automatic retry

Retry failed items processing: 3 times
Wait before each retry attempt for: 10 minutes

Backup window

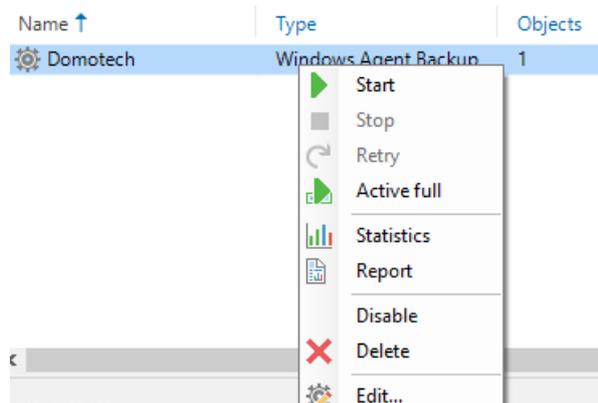
Terminate job outside of the backup window Window...
Prevent long-running or accidentally started job from impacting your production infrastructure during the busy hours.

< Previous Apply Finish Cancel

- j. Votre tâche de sauvegarde quotidienne est maintenant créée.

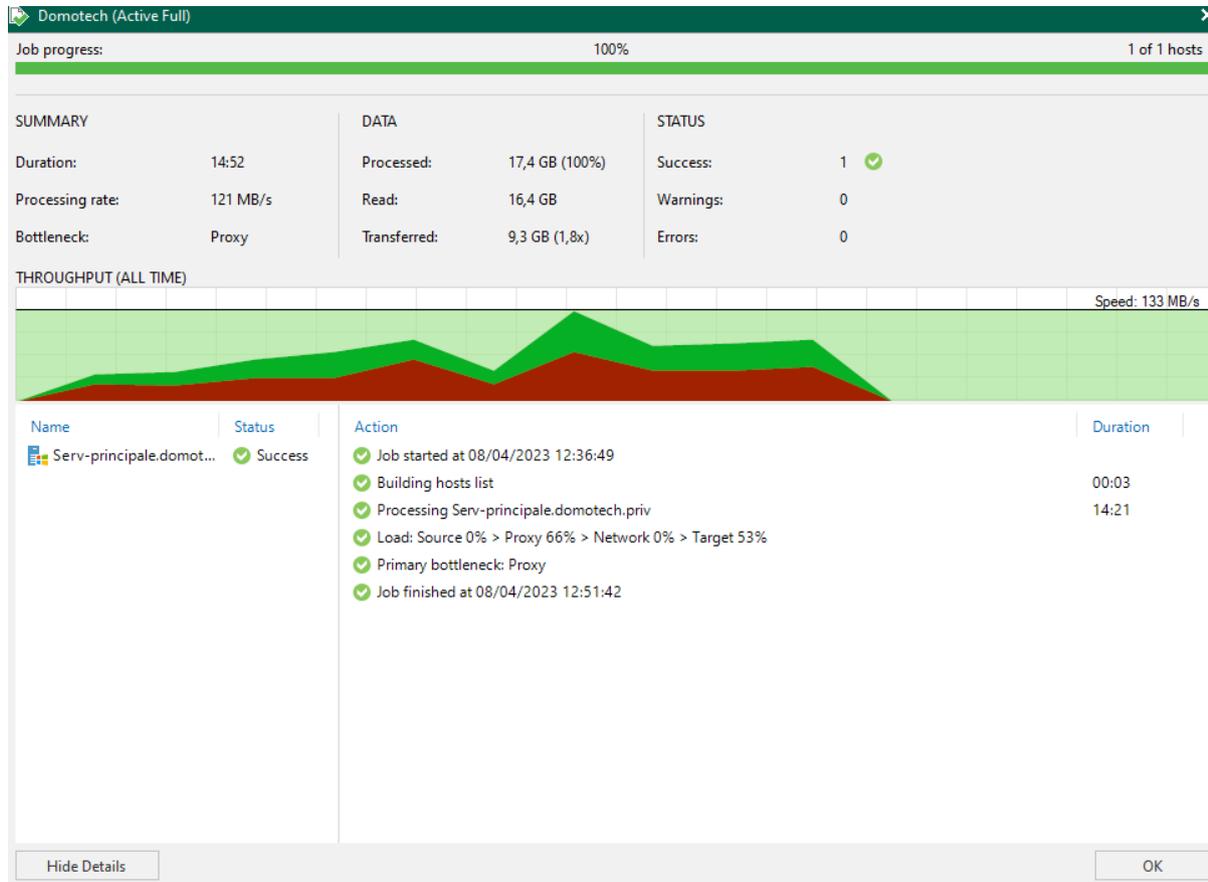
Name ↑	Type	Objects	Status	Last Run	Last Result	Next Run
 Domotech	Windows Agent Backup	1	Stopped	5 hours ago	Success	09/04/2023 14:42

- k. Pour tester la sauvegarde, faites un clic droit sur le Job et testez une Full.





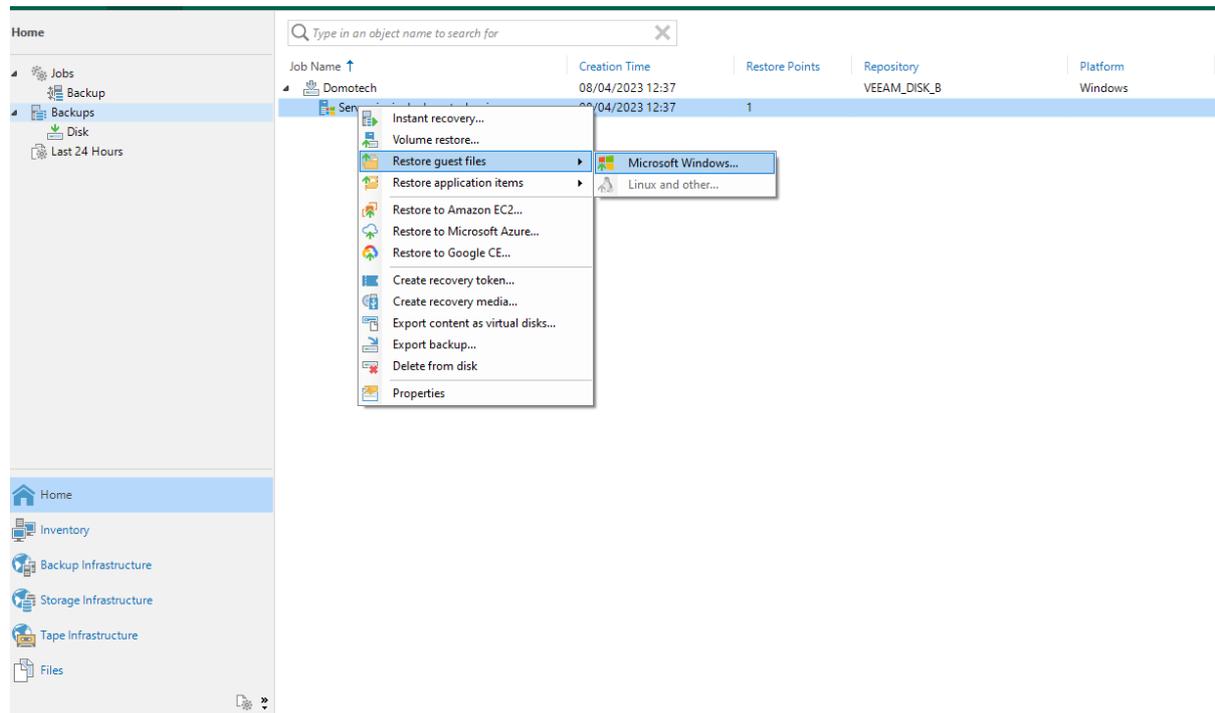
I. La mienne à totalement fonctionnez.



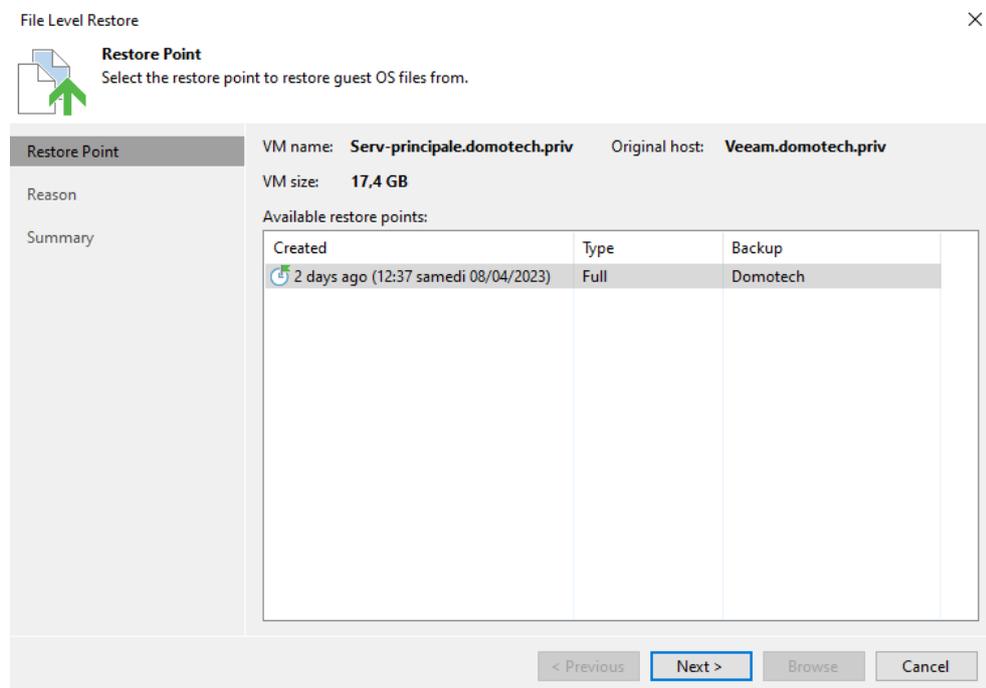
- m. Pour finir, nous allons tenter de restaurer un fichier en effectuant un Guest file. Pour cela, il faut avoir créer un fichier texte dans votre serveur. Ensuite il faudra effectuer une sauvegarde incrémentielle en faisant un clic droit sur le job et en cliquant sur Start comme vu précédemment. Après la sauvegarde, il faudra supprimer le document texte créer. Maintenant que tout cela a été fait, nous allons pouvoir commencer la restauration de ce document.



- n. Aller dans Backup et faites un clic droit sur le server ou vous avez créer votre document et cliquez sur restore guest files.

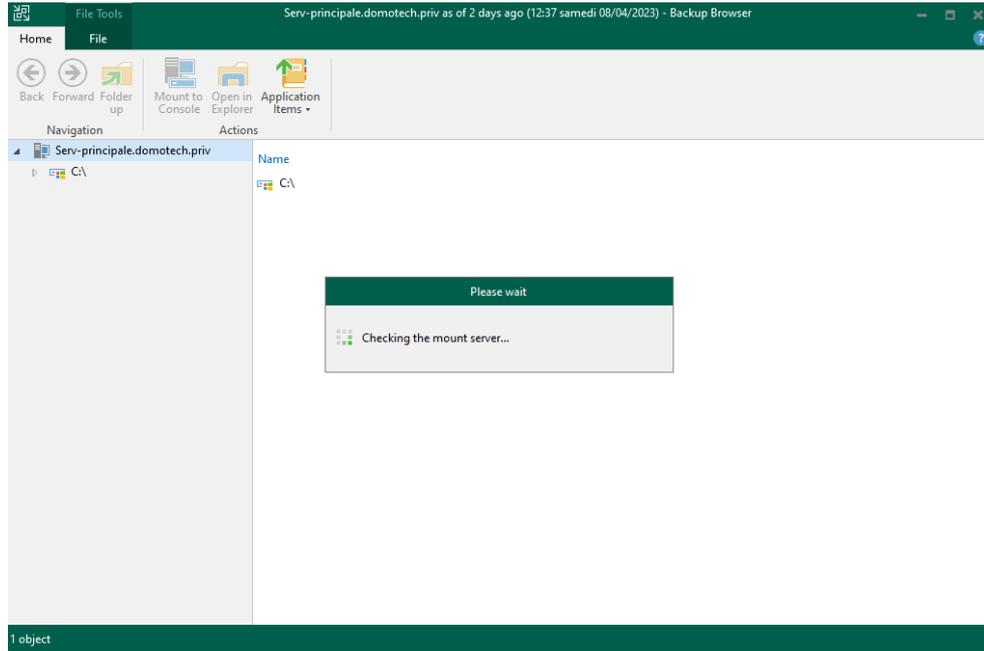


- o. Double cliquez sur la dernière sauvegarde que vous venez d'effectuer.

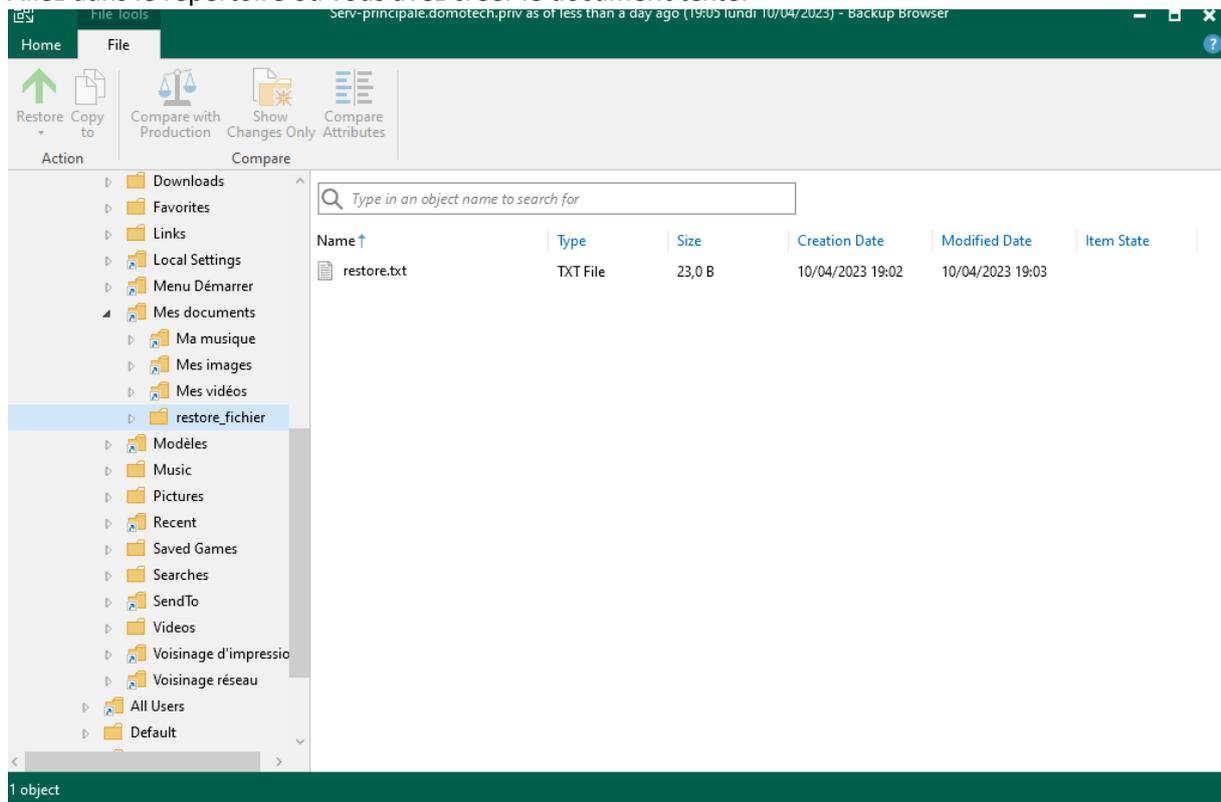


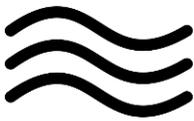


p. Patientez quelques instants.

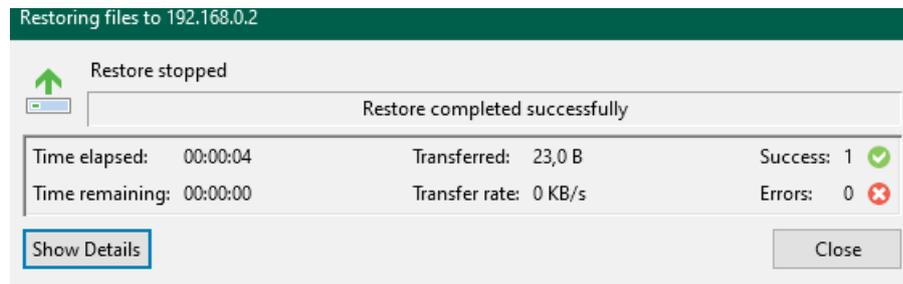
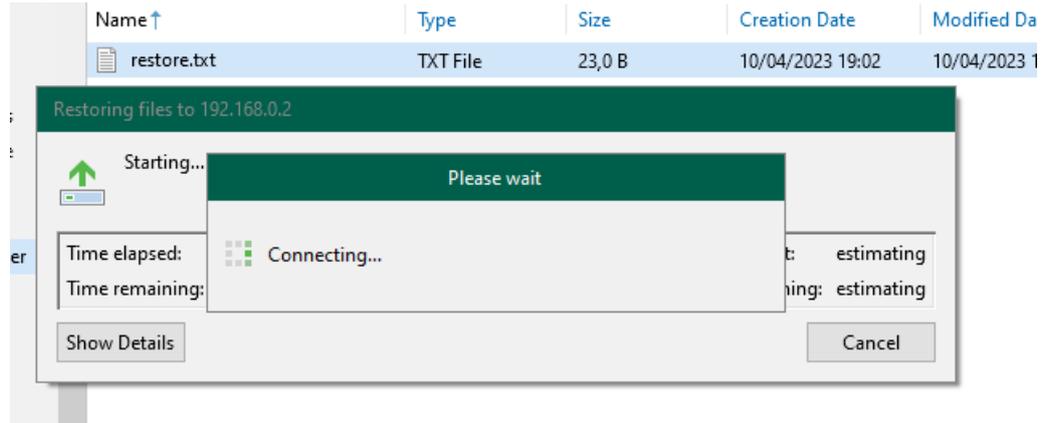


q. Allez dans le répertoire où vous avez créé le document texte.

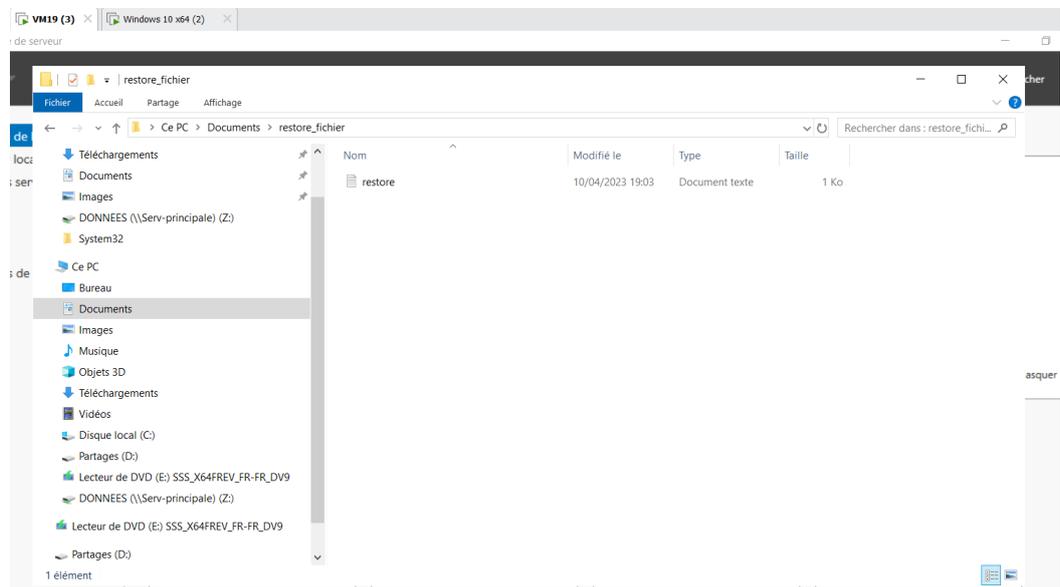




r. Et pour finir restaurer le document.



s. Maintenant nous allons vérifier si le document a bien été restauré, pour cela nous allons vérifier s'il est réapparu dans le serveur.



Nous sommes sur le serveur et nous pouvons voir que le document a correctement été restauré.