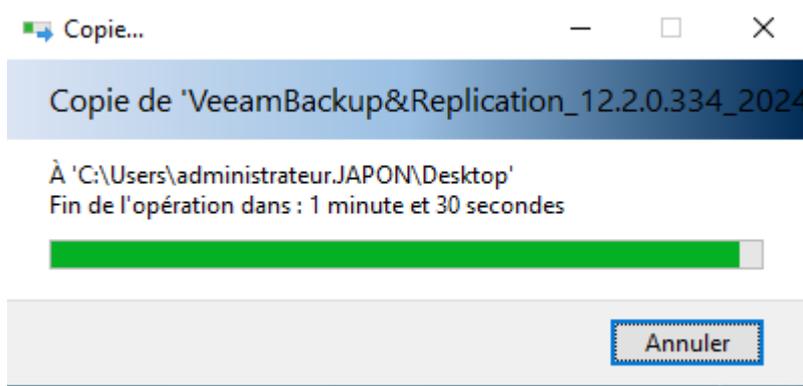


Mathéo

Intro : Pour ce tp on va utiliser le logiciel veeam backup et restauration pour sauvegarder nos vm on va l'installer sur notre serveur d'impression pour gagner efficacité pour cela on va télécharger et copier le fichier sur la vm tout simplement.



On va ensuite lancer l'installation du logiciel qui va durer un petit moment en quelques étapes.

Icon	File Name	Date	Type	Size
	autorun	26/09/2024 18:15	Informations de c...	1 Ko
	Setup	26/09/2024 18:15	Application	392 Ko



Install Veeam Backup & Replication

Veeam Backup & Replication combines fast, flexible and reliable backup, recovery and replication for all your workloads and data.

veeam backup & replication

License

Provide license file for Veeam Backup & Replication.

Select license provisioning method:

[Sign in with Veeam](#) | [Browse to local license file](#)

License details:

Community edition, 10 instances, limited functionality & personal use only

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.

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

Back Install Cancel

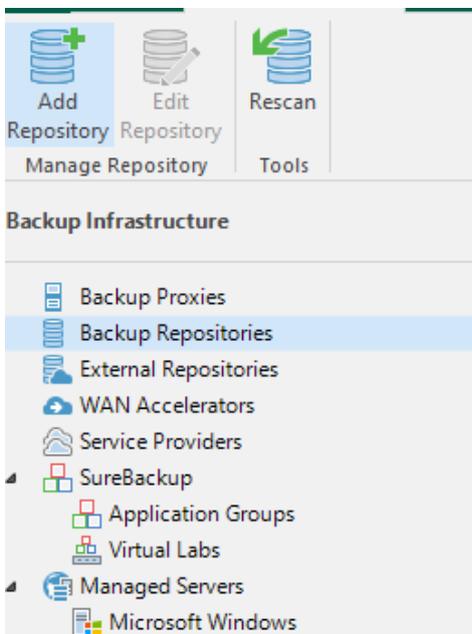
Veeam Backup & Replication 12.2

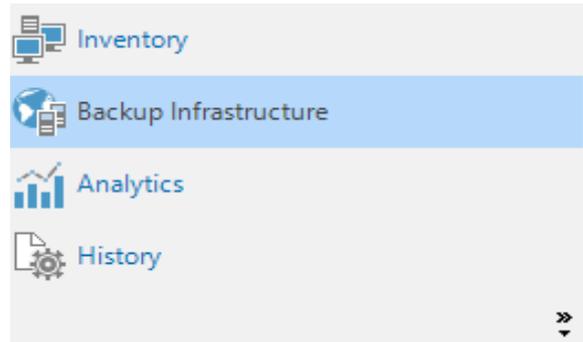
✓ Successfully installed

Ensuite on lance le raccourci installé et on sélectionne notre serveur.

The screenshot shows the Veeam Backup & Replication 12.2 connection dialog box. It features the Veeam logo and the text "Veeam Backup & Replication 12". Below this, there is a prompt: "Type in a backup server name or IP address, backup service port number, and user credentials to connect with." The form contains several input fields: a dropdown menu with "localhost" selected, a text box with "9392", a text box with "JAPON\administrateur", and a password field labeled "Password". There is a checked checkbox for "Use Windows session authentication". At the bottom, there are three buttons: "Save shortcut", "Connect", and "Close".

On va ensuite créer un répertoire de sauvegarde en réseau.





 **Network attached storage**
Network share on a file server or a NAS device. When backing up to a remote share, we recommend selecting a gateway server located in the same site with the share.

 **SMB share**
Add an SMB (CIFS) share. For reliability (CA) network shares only.

Name:

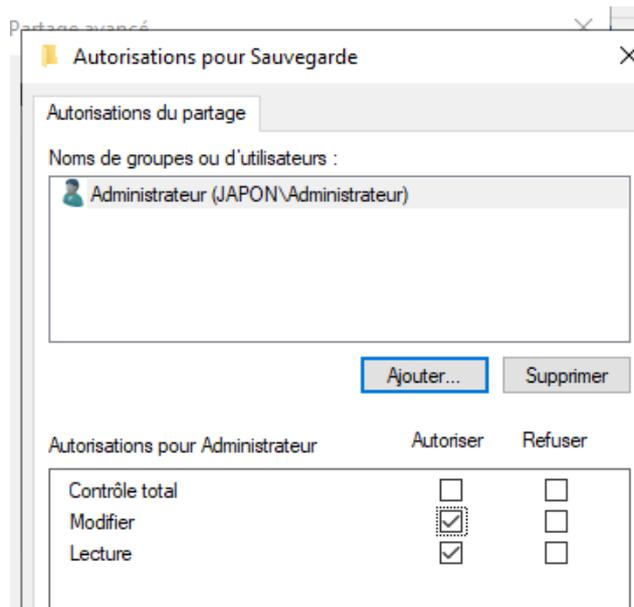
Description:

Ensuite parallèlement sur le serveur de fichier on va créer un dossier pour les sauvegardes.

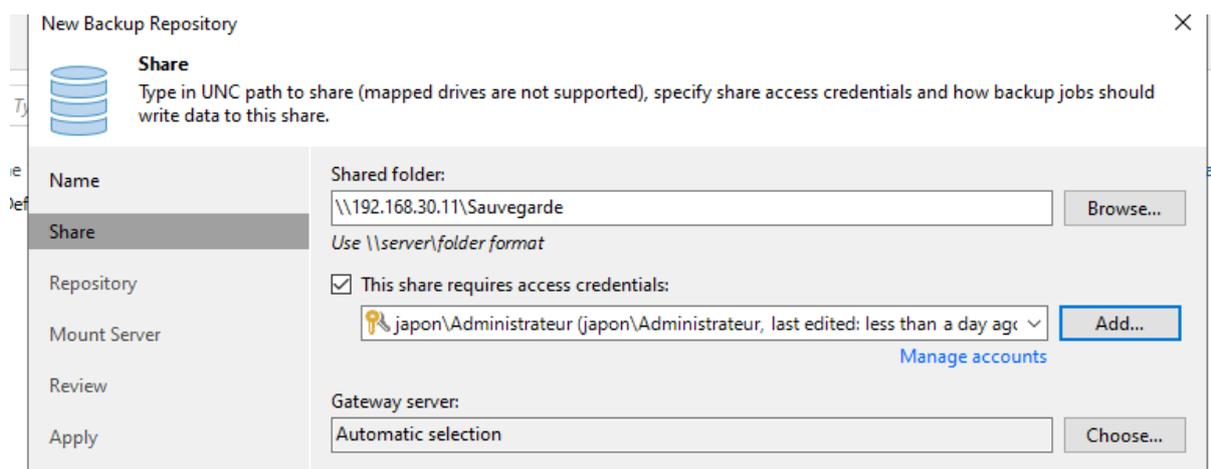
Ce PC > Disque local (C:) >

	Nom	Modifié le	Type	Taille
	Partage	15/10/2024 11:23	Dossier de fichiers	
	PerfLogs	08/05/2021 10:20	Dossier de fichiers	
ent:	Personnel\$	15/10/2024 11:54	Dossier de fichiers	
	Program Files (x86)	08/05/2021 17:54	Dossier de fichiers	
	Programmes	15/10/2024 09:35	Dossier de fichiers	
	StorageReports	15/10/2024 10:34	Dossier de fichiers	
	Utilisateurs	29/10/2024 12:00	Dossier de fichiers	
	Windows	15/10/2024 10:08	Dossier de fichiers	
	Sauvegarde	29/10/2024 12:02	Dossier de fichiers	

Et on va le partager et donner uniquement des droits à l'administrateur.

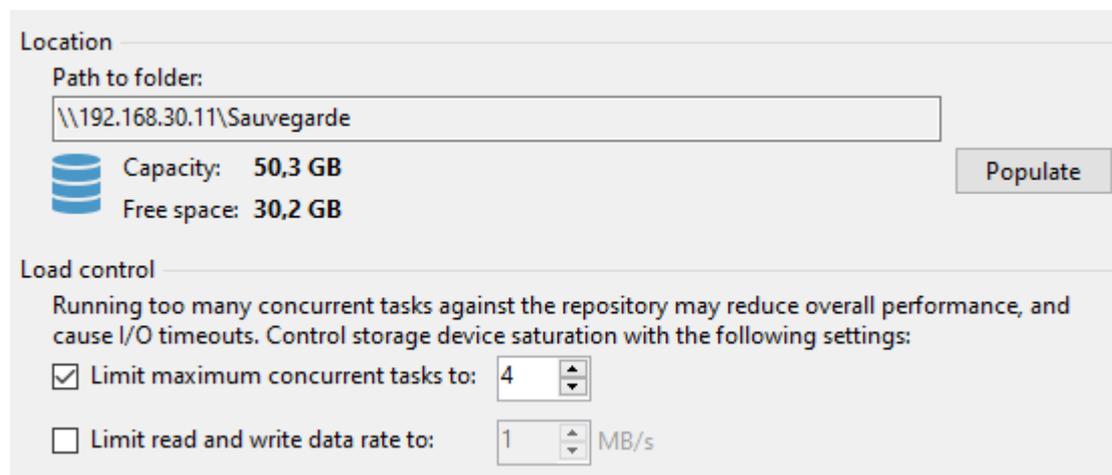


Et comme d'habitude on désactive l'héritage et on enlève les droits d'accès des utilisateurs. Ensuite on retourne sur veeam pour remplir le chemin d'accès du dossier.



On n'oubliera pas de cocher la case et de sélectionner l'administrateur pour manager.

Ici on laisse par défaut.



Pareil ici.

require a write cache folder to store changed disk blocks in.

Mount server:
SRV-SAVE-ML.japon.local (Backup server) Add New...

Instant recovery write cache folder:
C:\ProgramData\Veeam\Backup\IRCache\ Browse...

Ensure that the selected volume has sufficient free disk space to store changed disk blocks of instantly recovered machines. We recommend placing the write cache folder on an SSD drive.

Enable vPower NFS service on the mount server (recommended) Ports...

Unlocks instant recovery of any backup (physical, virtual or cloud) to a VMware vSphere VM. vPower NFS service is not used for instant recovery to a Microsoft Hyper-V VM.

Et ensuite on décoche juste la case tout en bas.

Search the repository for existing backups and import them automatically

Import guest file system index data to the catalog

ensuite on va donc sauvegarder un serveur hyper-v

Backup Infrastructure

- Backup Proxies
- Backup Repositories
- External Repositories
- WAN Accelerators
- Service Providers
- SureBackup
 - Application Groups
 - Virtual Labs
- Managed Servers
 - Microsoft Windows

Add Server

Before using hypervisor file management the ribbon (or just click this text). For VMware vSphere, add one or makes Veeam Backup & Replication For Microsoft Hyper-V, add one or Based on your needs, also consider

Virtualization Platforms

Select the type of a virtualization platform you want to protect. All management servers can be found under the Managed Servers node.

-  **VMware vSphere**
Add VMware private cloud infrastructure servers to the inventory.
-  **Microsoft Hyper-V**
Add Microsoft private cloud infrastructure servers to the inventory.



Microsoft Hyper-V

Select the type of a Microsoft server you wa



Hyper-V

Add a SCVMM server, a Hyper-V cluster, or a

On rentre donc le nom de la machine physique.

DNS name or IP address:
SRV-P-HV-ML

Description:
Created by JAPON\administrateur at 29/10/2024 12:18.

Microsoft System Center Virtual Machine Manager (SCVMM)
If you are using SCVMM to manage your Hyper-V infrastructure, we can pull all Hyper-V clusters information from SCVMM, and add them to managed servers automatically.

Microsoft Hyper-V cluster
Use this option to register Hyper-V cluster that is not managed by SCVMM. Registering a cluster instead of individual cluster nodes provides for Live Migration awareness.

Microsoft Hyper-V server (standalone)
Use this option to register standalone Hyper-V server that is not a part of a cluster, and is not managed by SCVMM.

Et on resélectionne l'admin.

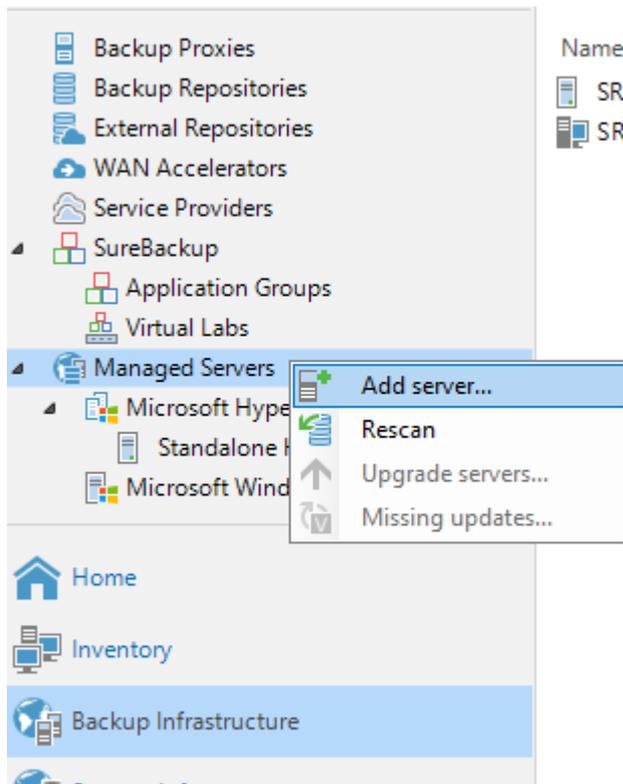
Select an account with local administrator privileges on the server you are adding. Use the format for domain accounts, or HOST\USER for local accounts.

Credentials:
japon\Administrateur (japon\Administrateur, last edited: less than a day a...)

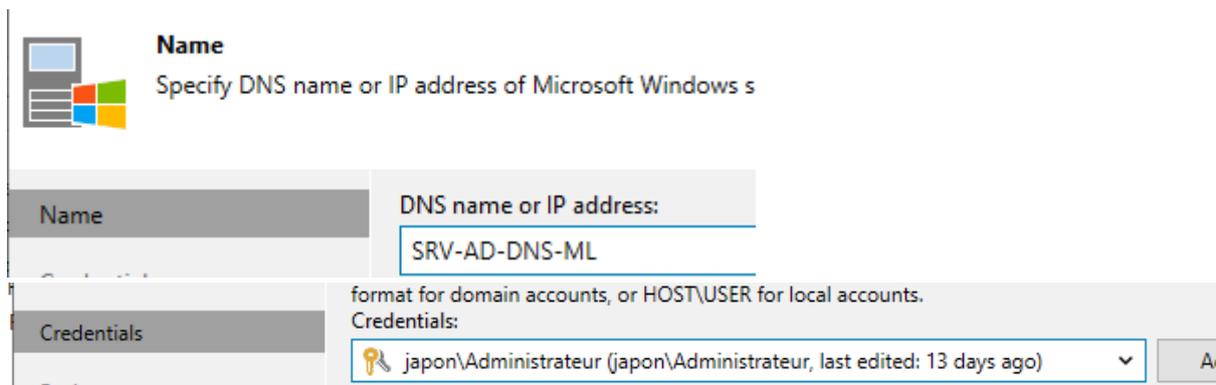
[Manage accounts](#)

Ensuite on applique et on fait suivant jusqu'à avoir fini cette étape.

On va maintenant faire la sauvegarde du dossier sysvol en quelques étapes.



Puis Microsoft windows

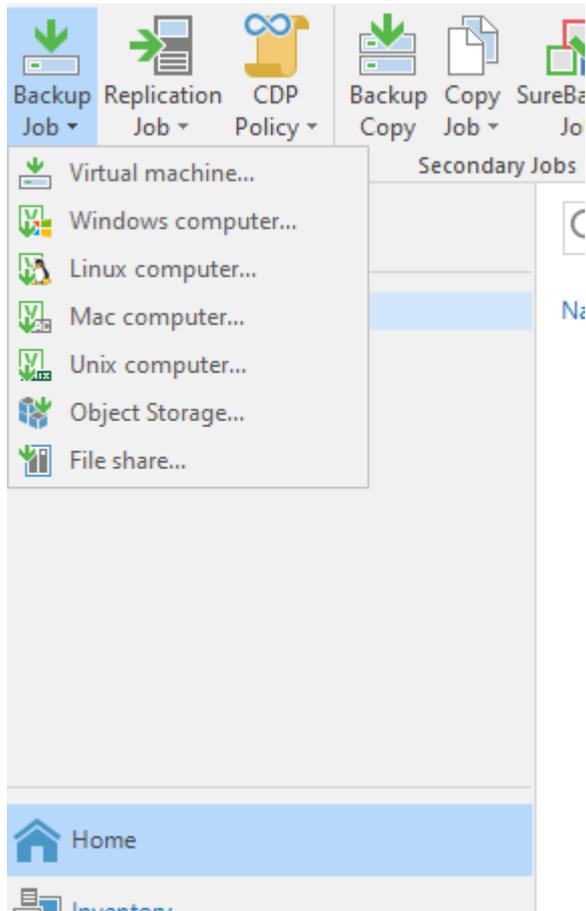


Comme précédemment.

Puis on fait next et finish.

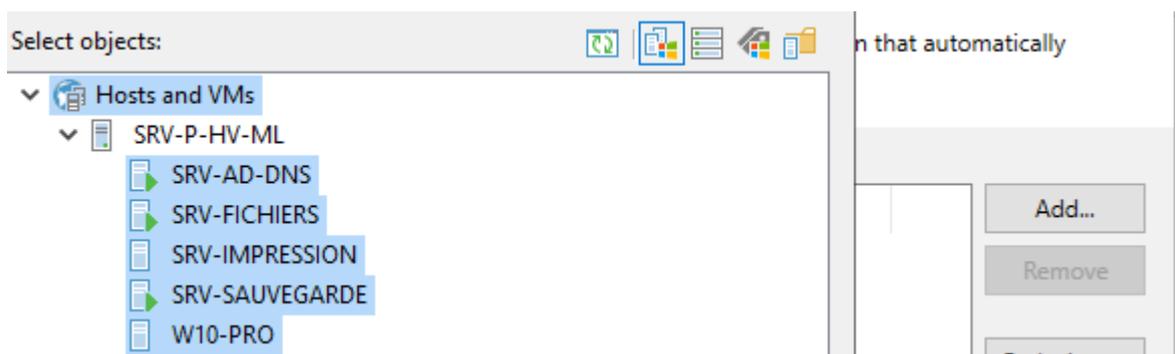
On va maintenant passer à la création d'une tâche de sauvegarde.

Pour cela dans le menu de droite on va dans home et job puis on va créer un job.



Name:

Et on va selectionner avec add toutes les vm.



Name	Type	Size
SRV-AD-DNS	Virtual machine	13,4 GB
SRV-FICHIERS	Virtual machine	23,4 GB
SRV-SAUVEGARDE	Virtual machine	60,0 GB
SRV-IMPRESSSION	Virtual machine	25,0 GB
W10-PRO	Virtual machine	20,6 GB

Ensuite on sélectionne bien le répertoire créer plutôt.

The screenshot shows a configuration window with a sidebar on the left containing tabs: Name, Virtual Machines, Storage (selected), Guest Processing, Schedule, and Summary. The main area is titled 'Backup proxy:' and contains a dropdown menu with 'Off-host backup (automatic proxy selection)' and a 'Choose...' button. Below this is the 'Backup repository:' section with a dropdown menu showing 'SRV-FICHIERS-ML (Created by JAPON\administrateur at 29/10/2024 11:58.)' and a 'Map backup' link. The 'Retention policy:' is set to '7 days' with a warning icon. There are two checkboxes: 'Keep certain full backups longer for archival purposes' (unchecked) with a 'Configure...' button, and 'Configure secondary destinations for this job' (unchecked). A note below the second checkbox reads: '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.' At the bottom, there is a section for 'Advanced job settings' with a description and an 'Advanced...' button.

Puis dans avancé.

The screenshot shows a row of tabs: Backup (selected), Maintenance, Storage, Notifications, Hyper-V, and Scripts.

Backup mode

- Reverse incremental (slower)**
Increments are injected into the full backup file, so that the la file is always a full backup of the most recent VM state.
- Incremental (recommended)**
Increments are saved into new files dependent on previous fil chain. Best for backup targets with poor random I/O perform:
 - Create synthetic full backups periodically on:
samedi [Configure...](#)

Active full backup

- Create active full backups periodically on:
samedi [Configure...](#)

The screenshot shows a row of tabs: Backup (selected), Maintenance, Storage, Notifications, Hyper-V, and Scripts. The main area is titled 'Storage-level corruption guard' and contains a checkbox 'Perform backup files health check (detects and auto-heals corruption) on:' which is checked. Below it, it says 'At 05:00 on Last Saturday of every month' with a 'Configure...' link. Below this is the 'Full backup file maintenance' section with two checkboxes: 'Remove deleted items data after' (unchecked) with a dropdown menu set to '14 days', and 'Defragment and compact full backup file on:' (unchecked) with the text 'Last Saturday of every month' and a 'Configure...' link.

Le reste on laissera par défaut ou à modifier en fonction des préférences.

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 and malware detection
 Indexing enables global file search functionality, automatic detection of suspicious file system activity and known malware files.
 Customize advanced guest file system indexing options for individual machines Indexing...

Guest OS credentials:

🔑 japon\Administrateur (japon\Administrateur, last edited: 13 days ago) ▾ Add...

[Manage accounts](#)

Customize guest OS credentials for individual machines and operating systems Credentials...

Verify network connectivity and credentials for each machine included in the job Test Now

< Previous
Next >
Finish
Cancel

Run the job automatically

Daily at this time: 21:00 ▾ Everyday ▾ Days...

Monthly at this time: 22:00 ▾ Fourth ▾ Saturday ▾ Months...

Periodically every: 1 ▾ Hours ▾ Schedule...

After this job: ▾

Automatic retry

Retry failed items processing: 1 ▾ times
 Wait before each retry attempt for: 30 ▾ minutes

Backup window

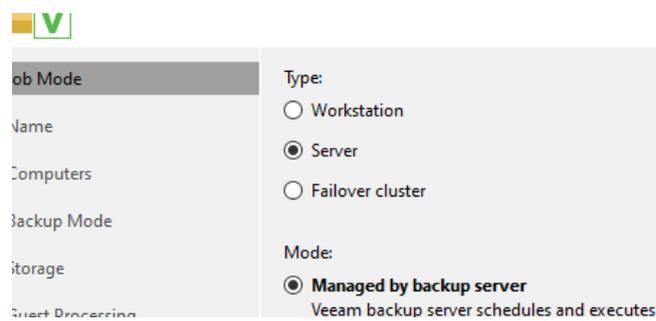
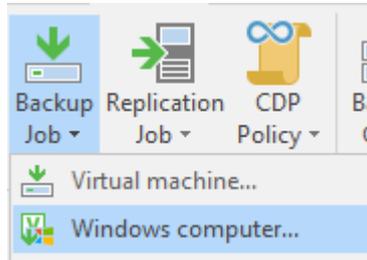
Terminate the job outside of the allowed backup window Window...
 Long running or accidentally started jobs will be terminated to prevent impact on your production infrastructure during busy hours.

< Previous
Apply
Finish
Cancel

Ensuite on fait apply et finish

On va ensuite lancer la sauvegarde qui va prendre du temps en fonction de l'espace occupé.

Puis dernière étape on va paramétrer une tâche de sauvegarde de certains fichiers d'un serveur Windows distant.





Name

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

ib Mode	Name:
ame	Sauvegarde AD1
omputers	Description:
ackup Mode	Created by JAPON\Administrateur at 25/11/2024 08:53.
orage	
uest Processing	
chedule	
ummary	

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.

Add... | Target

- Protection group...
- Individual computer...

Add Computer

Host name or IP address:
192.168.30.10

Credentials:
japon\Administrateur (japon\Administrateur, last edit) Add...
[Manage accounts](#)

OK Cancel

- Entire computer**
Back up entire computer image for fast recovery on an... automatically excluded from the image to reduce the...
 Include external USB drives
- Volume level backup**
Back up images of specified volumes, for example only... are automatically excluded from the image to reduce t...
- File level backup (slower)**
Back up selected files and directories only. This mode... with protected file system objects included in the image...

New Agent Backup Job



Objects

Specify objects you would like to include in the backup.

<ul style="list-style-type: none"> Job Mode Name Computers Backup Mode <li style="background-color: #f0f0f0;">Objects Storage Guest Processing Schedule Summary 	<p>Objects to backup:</p> <p><input type="checkbox"/> Operating system</p> <p><input type="checkbox"/> Personal files</p> <p>Include: Desktop, Documents, Pictures, Video, Music, Favorites, Downloads, Other files and folders Choose...</p> <p><input checked="" type="checkbox"/> The following file system objects:</p> <table border="1" style="width: 100%; border-collapse: collapse;"> <thead> <tr> <th style="width: 80%;">Object</th> <th style="width: 20%;"></th> </tr> </thead> <tbody> <tr> <td></td> <td style="text-align: right;">Add...</td> </tr> <tr> <td></td> <td style="text-align: right;">Edit...</td> </tr> <tr> <td></td> <td style="text-align: right;">Remove</td> </tr> </tbody> </table>	Object			Add...		Edit...		Remove
Object									
	Add...								
	Edit...								
	Remove								

Add Object

Volume name or path to a directory:

c:\Windows\Sysvol

Example: C:\Users

OK
Cancel

Ensuite on ne change rien



Storage

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

<ul style="list-style-type: none"> Job Mode Name Computers Backup Mode Objects <li style="background-color: #f0f0f0;">Storage Guest Processing 	<p>Backup repository:</p> <p style="border: 1px solid #ccc; padding: 2px;">Default Backup Repository (Created by Veeam Backup) v</p> <p style="font-size: small; margin-top: 5px;">60,1 GB free of 199,3 GB Map backup</p> <p>Retention policy: 7 days v</p> <p><input type="checkbox"/> Keep certain full backups longer for archival purposes Configure...</p> <p style="font-size: small; margin-left: 20px;">GFS retention policy is not configured</p> <p><input type="checkbox"/> Configure secondary destinations for this job</p> <p style="font-size: small; margin-left: 20px;">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.</p>
---	--

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 and malware detection
 Indexing enables global file search functionality, automatic detection of suspicious file system activity and known malware files.
 Customize advanced guest file system indexing options for individual machines Indexing...

Ensuite on applique et on peut pour finir tester la sauvegarde.

Job Mode

Name

Computers

Backup Mode

Objects

Storage

Guest Processing

Schedule

Summary

Run the job automatically

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

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

Periodically every: 1 Hours Schedule...

After this job: Sauvegarde_VM (Created by JAPON\administrateur at 12/11/2024 10:09.)

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.

Une fois la sauvegarde terminée c'est la fin de ce tp.

Pour résumer lors de ce tp nous avons installé la solution veeam agent sur une vm windows afin de sauvegarder des vm de notre hyper v mais aussi des fichiers de nos vm distantes. Grâce à cette solution on peut également restaurer des fichiers et faire en sorte de choisir où iront les sauvegardes effectuées. Pour finir il faut bien noter qu'une sauvegarde prend du temps et beaucoup d'espace celons le type de sauvegarde sélectionné.