

# Comment se protéger contre une attaque ransomware?



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# Agenda

- Présentation Veeam
- Comment se protéger contre une attaque Ransomware
- Annonces Veeam v12
- Nouveautés licensing
- Démo VBM365



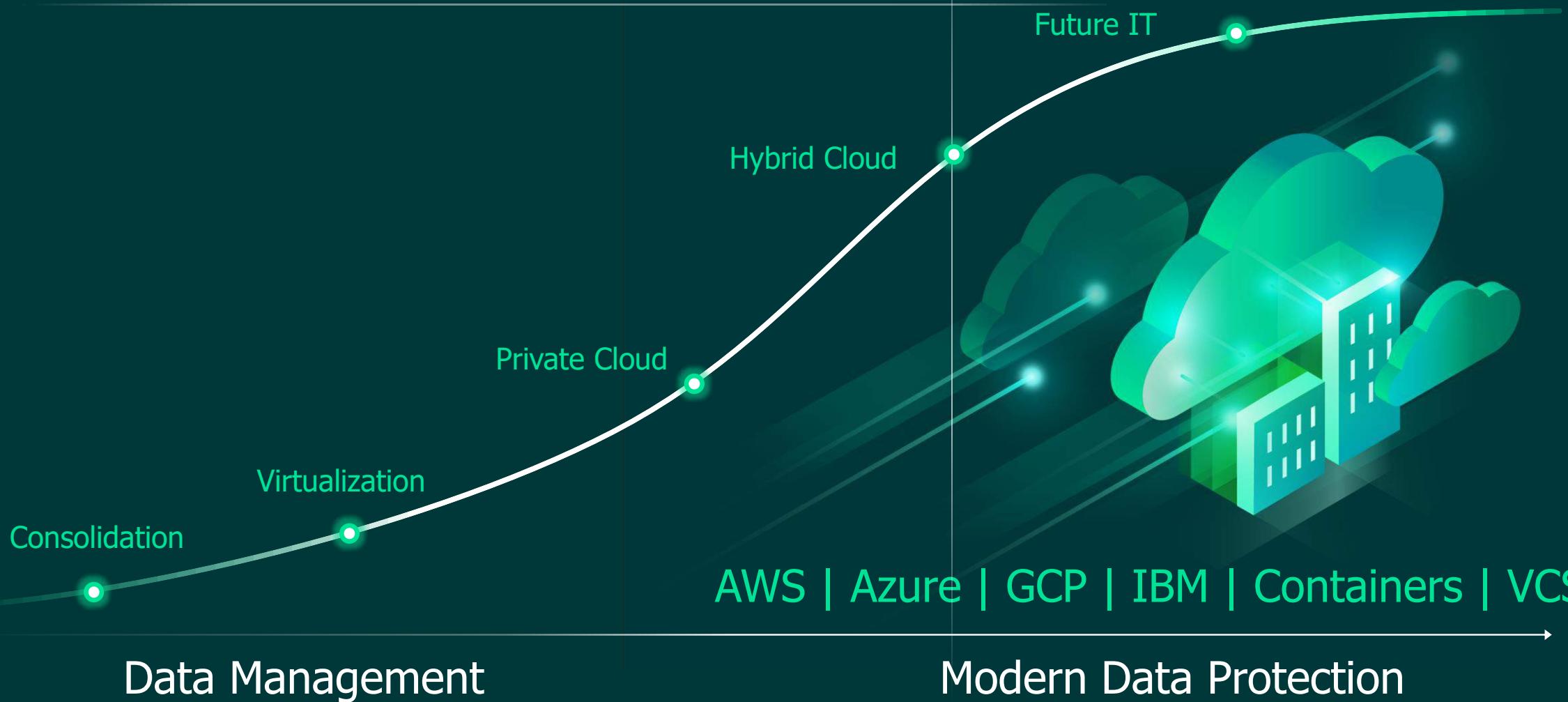
A decorative graphic in the top left corner consists of a cluster of small, semi-transparent dots in various colors (teal, light blue, yellow, orange) arranged in a roughly triangular or fan-like shape, suggesting motion or data points.

# Présentation Veeam

# Click to edit Master title style

On-Premises ("Traditional") Datacenter

Public/Managed Datacenter



# Les besoins de nos clients dépassent le cadre de la sauvegarde

Sauvegarde et  
restauration



Accélération du  
cloud hybride



Ransomwares et  
sécurité des données



## Protection moderne des données

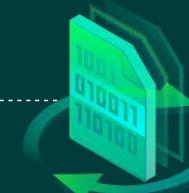
Datacenter | Edge | Cloud



Orchestration  
de la reprise après incident



Supervision et  
analyse



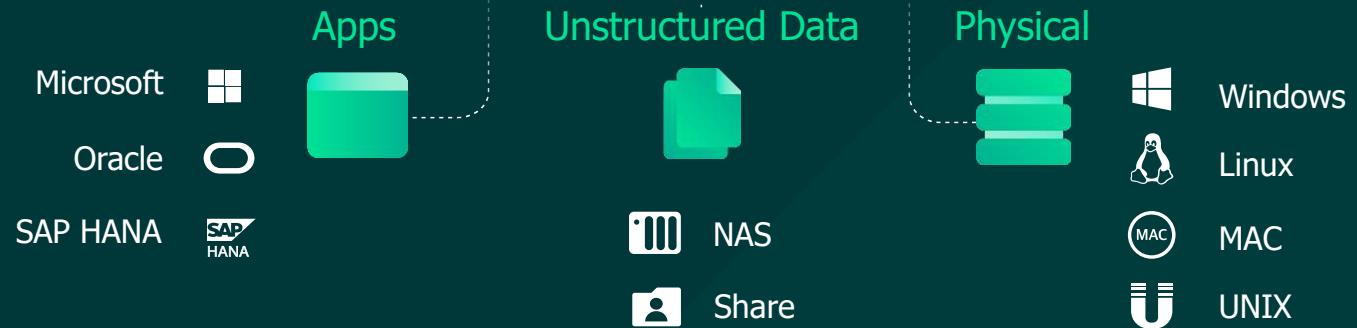
Réutilisation  
des données

# Veeam unifie toutes les sauvegardes



## Veeam Platform

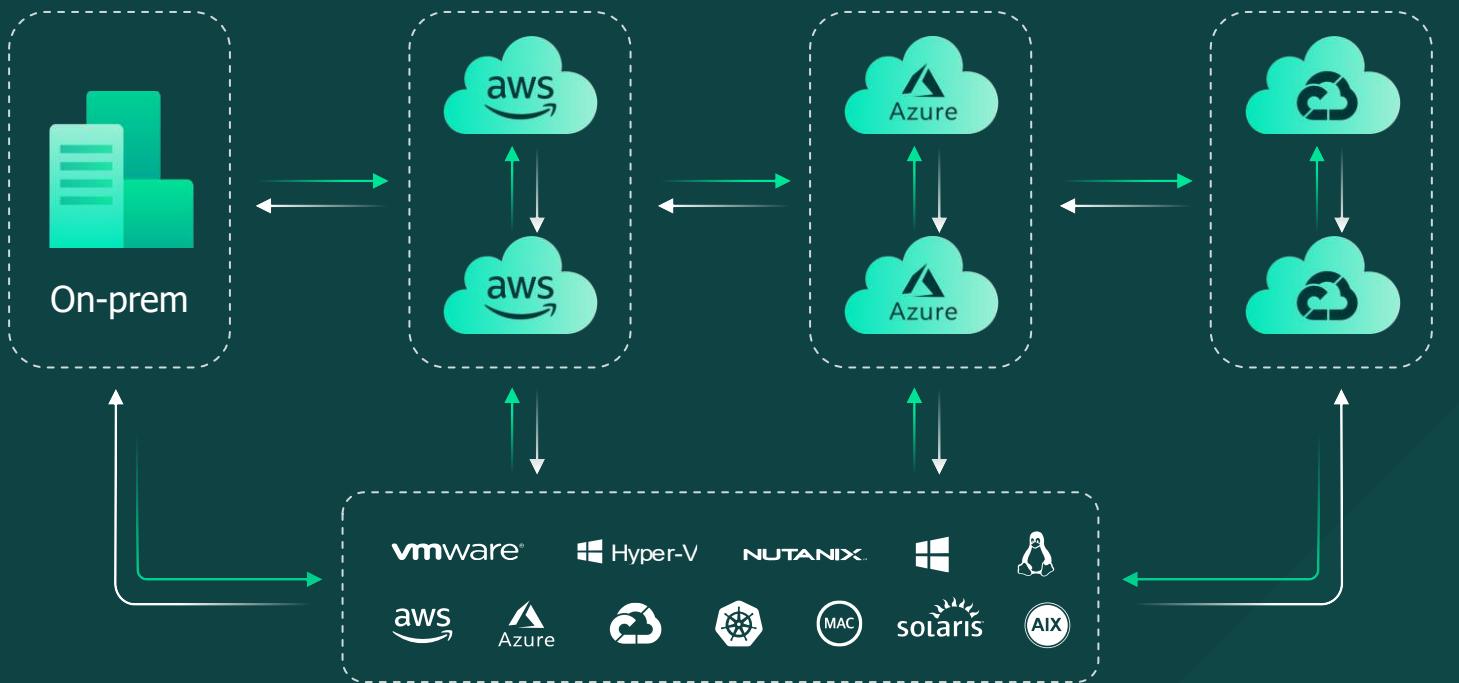
Single Platform to protect ALL workloads





# Cloud and Kubernetes Acceleration

Own your Data. Any Cloud.



Single Platform

Modular & Cloud-Native

No Cloud Lock-in

Cloud • Edge • Hybrid • On Premises

# Mobilité des données



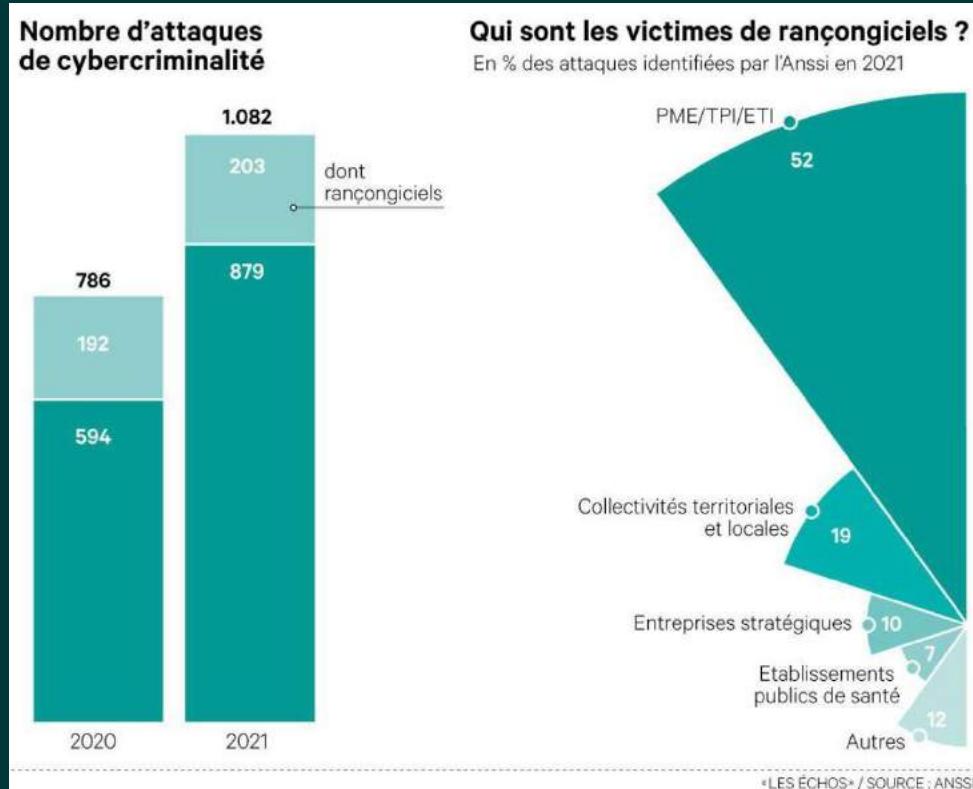


# Comment se protéger contre une attaque ransomware?

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# Retour sur 2021

# Ransomware changes in 2021



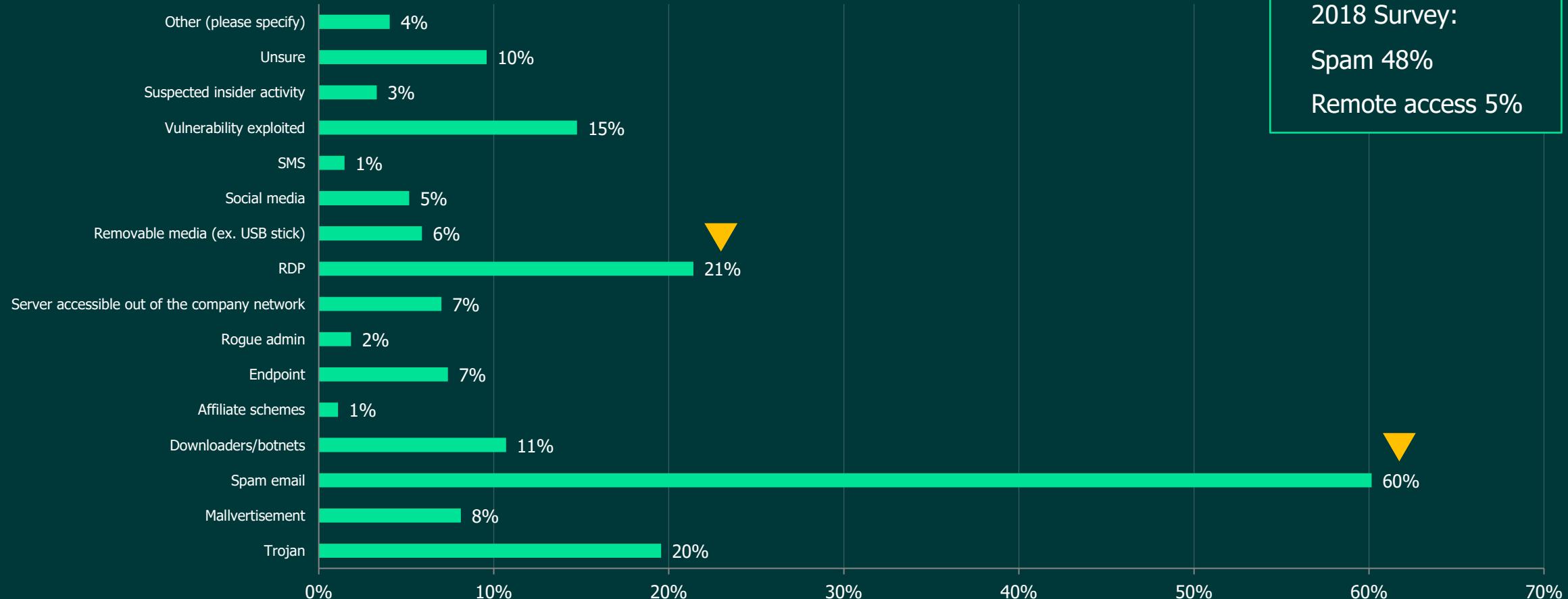
- Experienced attack in last year: **37%**
- Recovered all data after ransom: **8%**
- Avg. data recovered after ransom: **65%**
- ransomware-as-a-service, data exfiltration, double/triple extortion



Average cost of a ransomware attack rose to **\$1.85M** in 2021

<https://news.sophos.com/en-us/2021/04/27/the-state-of-ransomware-2021/>

# Observed ransomware sources



Q4 2021 Veeam Survey data

# Anatomie d'une attaque ransomware



<https://attack.mitre.org/matrices/enterprise/>

<https://www.darkreading.com/threat-intelligence/global-dwell-time-drops-as-ransomware-attacks-accelerate/d/d-id/1340663>

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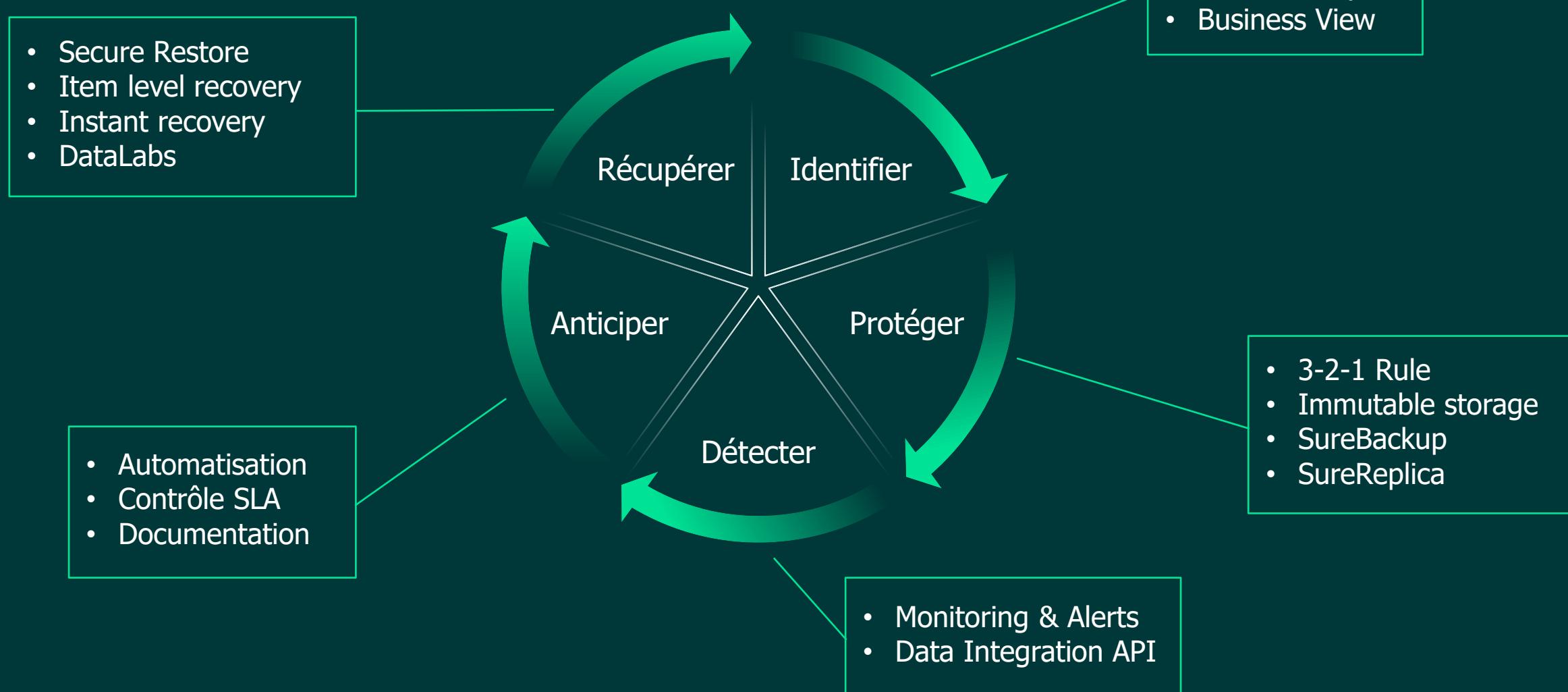
# La réponse de Veeam

# Veeam ransomware solution



- Identification
- Protection
- Detection
- Anticipation
- Reprise

# Capacités anti-ransomware de Veeam



# Protection

# Sauvegardes natives inaltérables



## Repository Linux renforcée

Sécurisez vos données grâce à des cibles de stockage inaltérables et exemptes de malware qui mettent vos sauvegardes à l'abri des suppressions et des chiffrements malveillants.

# Best practices for ransomware protection



Three different  
copies of data



Two different media



One offsite copy

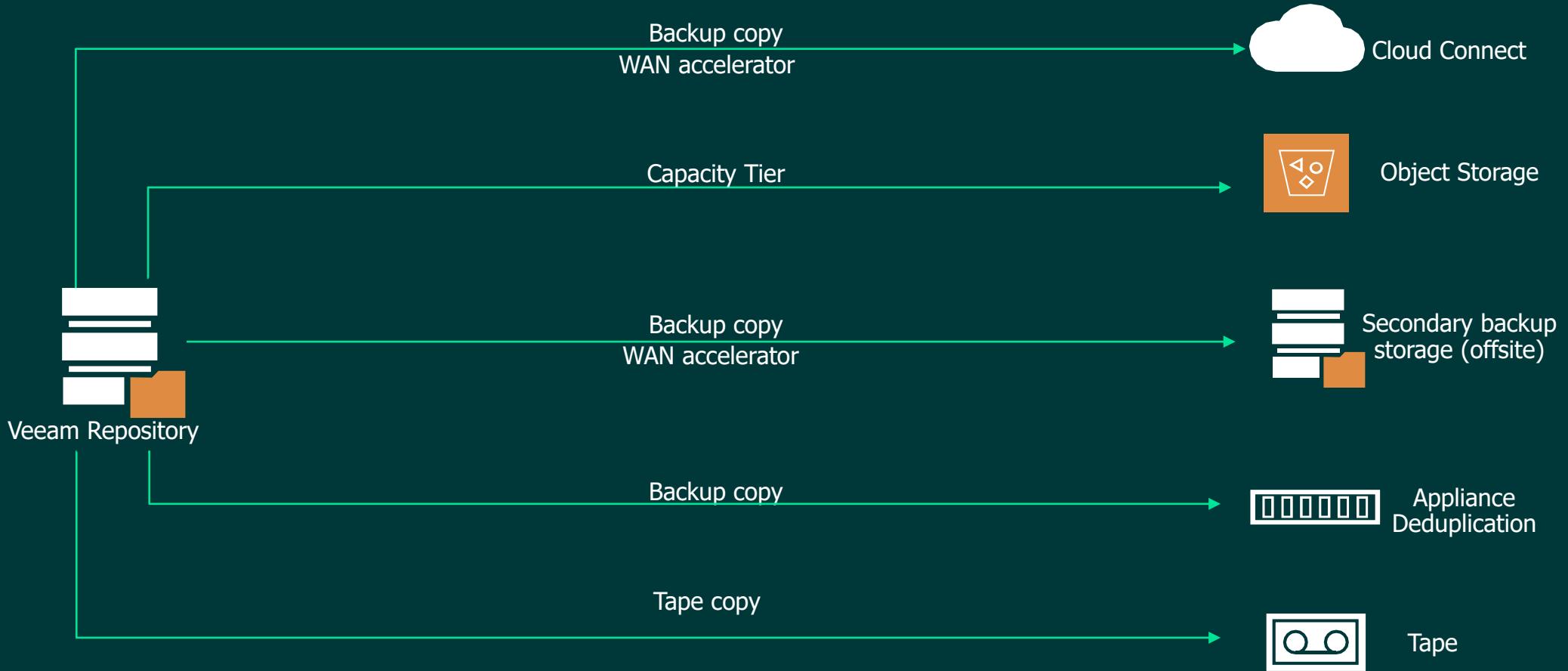


Of which is:  
offline air-gapped  
or immutable

No errors after  
automated backup  
testing & recoverability  
verification

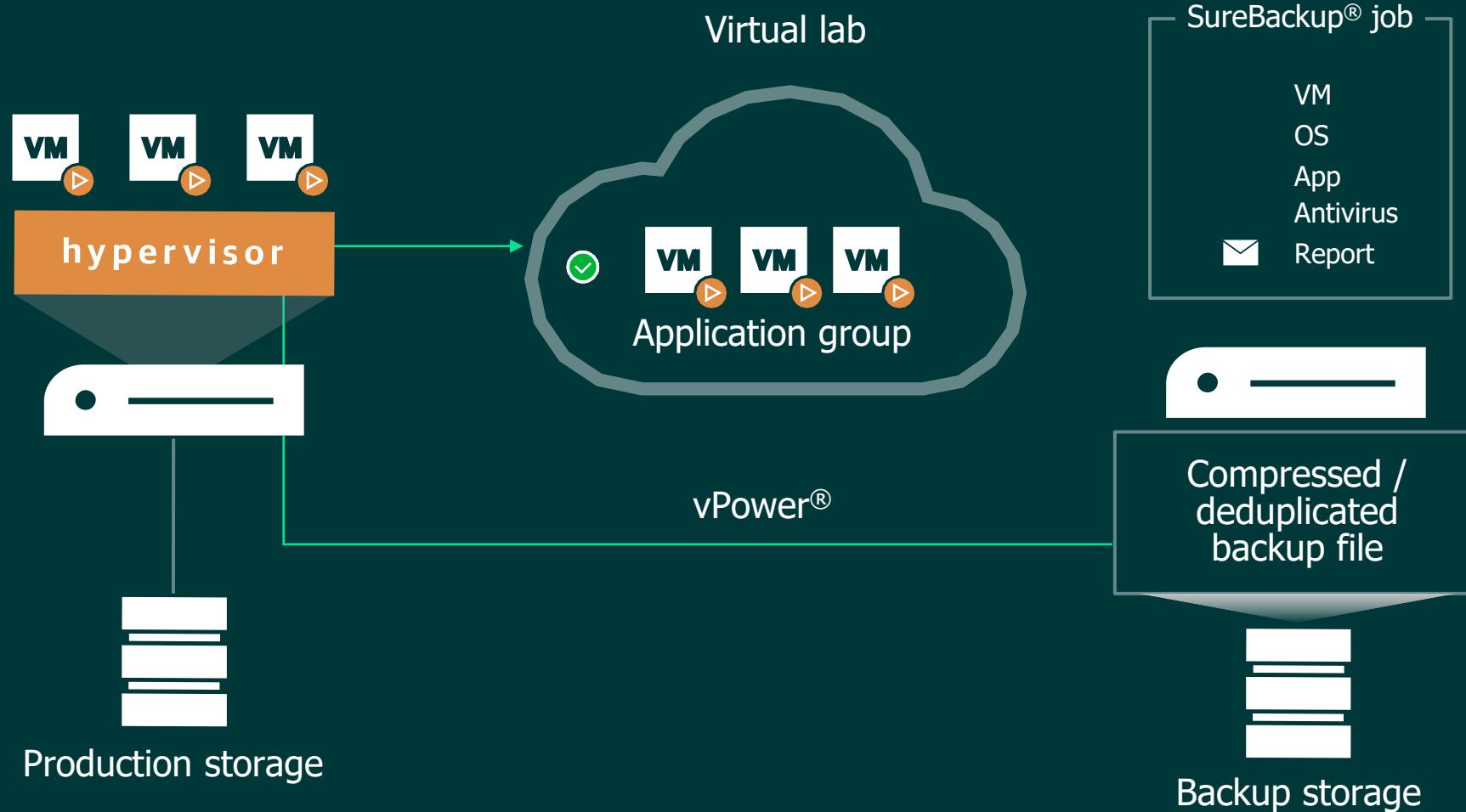
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# Externalisation



# SureBackup

Automated backup, replica and snapshot verification



# Détection

# Protected VM



## Protected VM

list of VMs protected by up-to-date backups and replicas, as well as a list of unprotected VMs which have outdated or missing backup or replicas



## Governance & Compliance

This information helps you validate the state of backup protection in your organization

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### Protected VMs

#### Description

This report lists all protected and unprotected VMs including their last backup state.  
Note: VM replicas created by Veeam Backup & Replication jobs are not accounted in this report.

#### Report Parameters

Scope:	vcenter01.tech.local
RPO period:	1 week (1/8/2020 - 1/14/2020)
Exclusion mask:	
Job type:	Backup, Replication, Backup Copy
Business View objects:	
Include VM templates in this report:	Yes
Job Exclusion list:	All Jobs

#### Summary

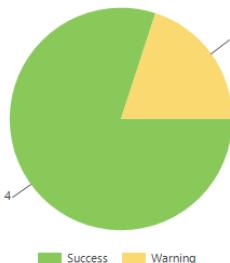
##### VMs Overview

Total VMs:	158
Including Templates:	5
Protected VMs:	4
Backed Up VMs:	4
Replicated VMs:	0
Restore Points:	69
Unprotected VMs:	130
VM Replicas:	24

##### Protected VMs



##### VM Last Backup State



##### Details

###### Protected VMs (VMware)

VM Name	Protection Type	Job Name	Oldest Restore Point	Available Restore Points	Last Backup (Replica) Date
<b>Status: Success</b>					
sandbox	Backup	Backup Job Cloud	1/5/2019	9	1/13/2019 7:01:42 PM
apache02	Backup	Onsite Daily Apache Backup	12/29/2018	17	1/14/2019 12:01:15 AM
mail01	Backup	Mailbox Protection Cloud	12/29/2018	11	1/14/2019 2:31:11 AM

## Backup Objects Change Tracking

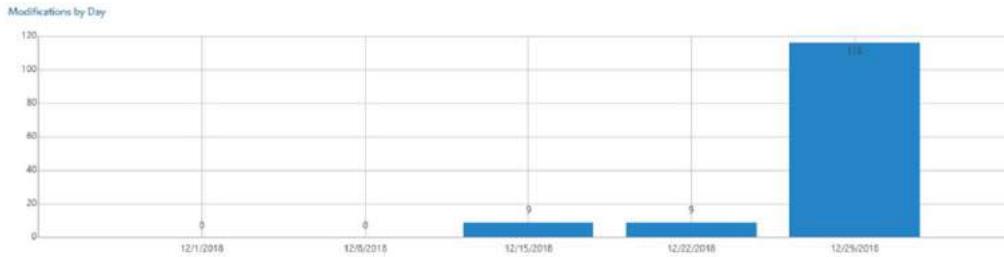
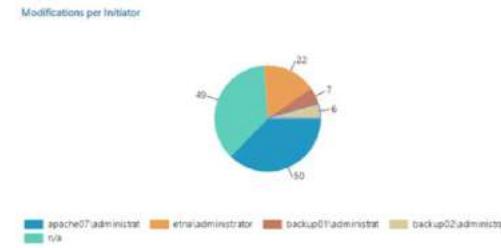
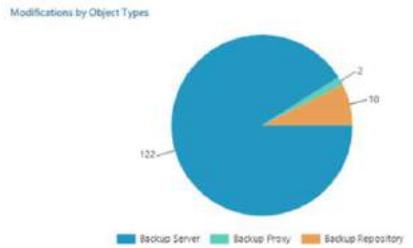
## Description

Report provides detailed information on Backup Infrastructure configuration changes performed within the reporting period including the exact time and the user account name who did the change.

## Report Parameters

Scope:	Backup Infrastructure
Interval:	12/1/2018 - 12/31/2018
Object Type:	All objects
Object Name:	
User:	All

## Summary



## Change Details

## Backup Server: apache07.tech.local

## Object type: Backup Server

Property Name	Previous Setting	New Setting	Modification Time	Initiator
Object: apache07.tech.local			12/29/2018 2:46:54 AM	apache07\administrator
Credentials: john.smith have been added			12/29/2018 2:47:34 AM	apache07\administrator
Host: userent01.tech.local (WC) has been created.			12/19/2018 2:47:34 AM	apache07\administrator
Credentials: Administrator have been added			12/19/2018 2:47:34 AM	apache07\administrator
Host: 192.168.1.79 (M\\$\\$ystem) has been created.			12/19/2018 2:47:34 AM	apache07\administrator
Credentials: extent02\administrator have been added			12/29/2018 2:48:00 AM	apache07\administrator
Component [Transport] on the host [userent02.tech.local] has been updated			12/29/2018 2:49:00 AM	n/a
Credentials: extent02\administrator have been added			12/19/2018 2:49:00 AM	apache07\administrator
Host: extent02.tech.local (Windows) has been created.			12/29/2018 2:49:00 AM	apache07\administrator
Component [Transport] on the host [extent02.tech.local] has been updated			12/29/2018 2:51:00 AM	n/a
Host: extent03.tech.local (Windows) has been created.			12/19/2018 2:51:00 AM	apache07\administrator
Credentials: Administrator have been added			12/29/2018 2:52:00 AM	apache07\administrator
Component [Transport] on the host [extent03.tech.local] has been updated			12/19/2018 2:53:00 AM	n/a

## Object Change Tracking



Track backup object changes  
Report on who changed what settings and when.



Governance & Compliance  
Audit backup infrastructure changes and report on user account and modifications.

# Restore Activity



## Restore Operator Activity

Allows you to keep an eye on all types of restore actions



## Governance & Compliance

Analyzes all guest file, application-level and full VM restore activities performed by any authorized user and arranges this information by the type of performed restore action

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### Restore Operator Activity

Description

This report provides audit information on all types of restores performed by a Veeam Backup & Replication server.

Report Parameters

Scope: Backup Infrastructure  
Interval: Custom Date Range (3/1/2019 - 3/2/2019)  
Users: All  
Restore Type: All

Summary

Restores by User

BACKUP02.mark:green

Restore Session Statistics

Application Item Restores Full Restore Guest Files Restore from Tape

Details

Backup Server: backup02.tech.local

Restore type: Full Restore

Initiator	Restore Point	Restored Item	Destination	Start Time	Status	Antivirus	AV Check Result	RTBF Script Result
BACKUP02.mark:green	sandbox	1/4/2019 2:57 PM [Backup Job Cloud 1/4/2019 2:57 AM] sandbox	[es01.tech.local]Original Location	1/4/2019 3:00 PM	Successful	N/A	0	N/A
apache02	1/3/2019 12:01 AM [Onsite Daily Apache Backup 1/2/2019 12:01:34 AM] apache02		[es01.tech.local]Original Location	1/7/2019 9:48 PM	Successful	N/A	0	N/A
sandbox	1/6/2019 7:01 PM [Backup Job Cloud 1/6/2019 7:01:34 PM] sandbox		[es01.tech.local]Original Location	1/7/2019 9:50 PM	Successful	N/A	0	N/A

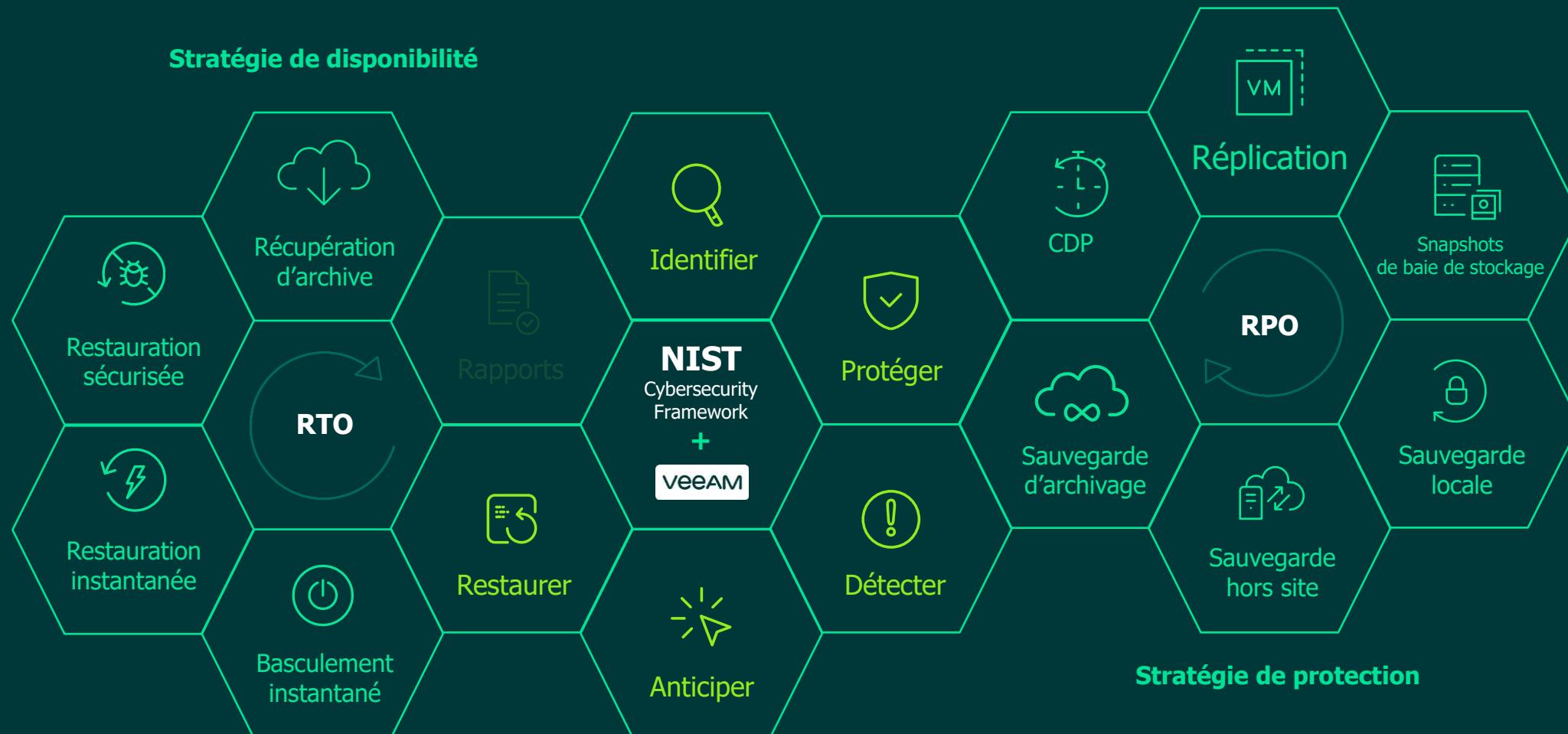
Restore Reason: Restore operator's request from Enterprise Manager.

Restore Reason: Restore operator's request from Enterprise Manager.

Restore Reason: Restore operator's request from Enterprise Manager.

# Anticipation

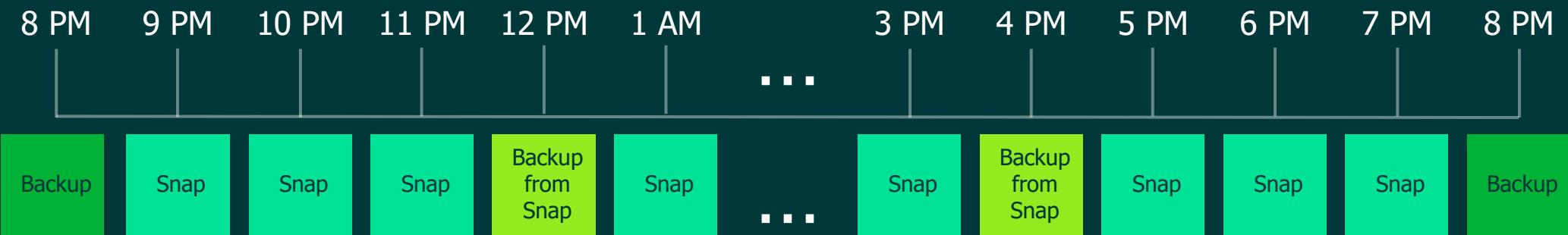
# Cybersecurity Framework du NIST + Veeam



# Use of Storage Snapshots for better RTO and RPO

During backup, data transport and consistency processing reduce performance of applications.

Leverage storage snapshots between the backup for even better Recovery Time and Recovery Point Objectives.



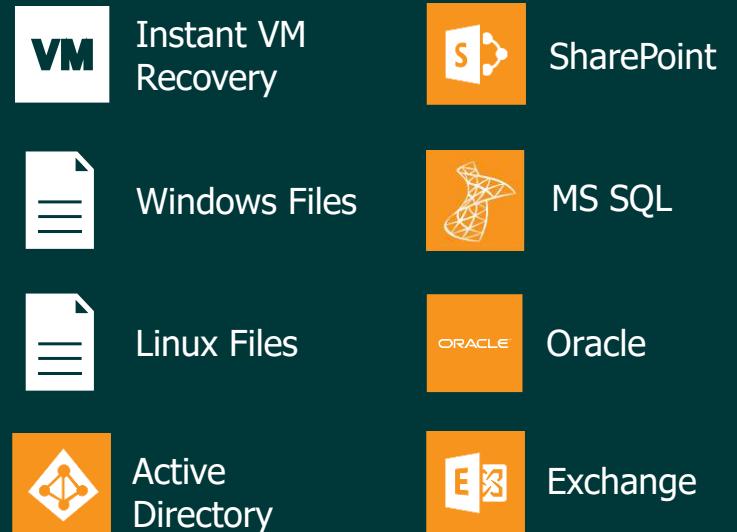
# Veeam Explorer for Storage Snapshots

The screenshot shows the Veeam Explorer interface. The top navigation bar includes 'VM TOOLS', 'HOME', and 'VIRTUAL MACHINE'. Below this are icons for 'Instant VM Recovery', 'Guest Files', 'Application Items', and 'Restore'. The left sidebar lists 'Storage Infrastructure' components like Cisco HyperFlex, Dell EMC, HPE 3PAR StoreServ, HPE Nimble, IBM Spectrum Virtualize, NetApp Data ONTAP, and Pure Storage. A tree view under 'pdctstor13' shows 'vmfs\_demo' and its subfolders. The main pane displays a table of storage snapshots:

NAME ↑	HOST	STATE
sqlc2-2	esx4.democenter.int	Application-consistent snapshot
winvm-0002	esx1.democenter.int	Application-consistent snapshot
Instant VM recovery...	democenter.int	Application-consistent snapshot

A context menu is open for the 'Instant VM recovery...' entry, listing options: 'Instant VM recovery...', 'Restore guest files', and 'Restore application items...'. The 'Restore application items...' option has a submenu with icons for Microsoft Active Directory objects, Exchange mailbox items, SharePoint content, SQL Server databases, and Oracle databases.

## Veeam backup and replication



# Vérifier son PRA



## Objectifs de restauration

Les objectifs de restauration du plan « NetApp Failover DR to HQ » sont les suivants:

**RTO cible (heures)**

1 hour(s) 0 minute(s)

**RPO cible (heures)**

24 hour(s) 0 minute(s)

## Summary

### Overall Result

✓ Ready

### Issue Count

None

## Execution Details

### Item

### Run/Scheduled By

### Details

DEMOCENTER\ssimakov

### Start Time

9/9/2020 11:45:36 AM, (UTC+01:00) Belgrade, Bratislava, Budapest, Ljubljana, Prague

### End Time

9/9/2020 11:45:39 AM, (UTC+01:00) Belgrade, Bratislava, Budapest, Ljubljana, Prague

### Duration (HH:mm:ss)

00:00:03

## Licensing

### Result

[i] Info

✓ Ready

✓ Ready

✓ Ready

### Check

Licensing - Summary

Licensing - Usage

Licensing - Expiry

Licensing - Exceeded

### Details

4 of 20 license instances used

2 licenses are used in this plan

The license will expire in 314 days.

The license limit is not exceeded on the VAO server.

## RPO

### Result

[i] Info

✓ Ready

✓ Ready

✓ Ready

### Check

RPO

Target RPO Met

VMs not meeting RPO

Worst RPO failure

### Details

Target RPO is 24:00 (HH:mm)

Yes

None

None

## Recovery Locations

### Result

✓ Ready

### Resource

HQ NetApp

### Details

None

## Datastores

### Result

✓ Ready

### Resource

Datastores

### Details

None

## Plan

### Result

✓ Ready

✓ Ready

✓ Ready

### Group

Pre-Plan Steps

Datastore - demo-netapp-nfs-protected

Post-Plan Steps

### Details

None

None

None

# Restauration

File-level recovery (Windows)	V2V conversion to vSphere/Hyper-V	Full VM restore	VM files restore	Multi-VM Instant Recovery	VM hard disk restore
Failover to a replica VM	File-level recovery (Multi-OS)	Quick Rollback	U-AIR restore	Restore from a replica VM	Replicate VM from a backup
		Instant VM disk recovery	Staged Restore	Secure Restore	Data Integration API
				Instant first-class disk recovery	Instant DB recovery

## General options

Veeam Explorers					
Active Directory		Exchange		Teams	
Export container/object	Restore system objects/GPO	Save data	Send data	Save file/as ZIP	Send post/file
Restore a deleted container/object	Restore a changed container/object	Restore folder/item/mailbox	Export to PST file	Restore team/channel/tab/post/file	Export post
SharePoint					
Save library/document	Send library/document	Save folder/document	Send document	Restore the latest state	Restore to a specific point in time
Restore library/list/document/site	Export library	Restore folder/document	Copy data to same/different user	Restore to a specific transaction	Restore from Oracle RMAN backup
SQL					
Restore the latest point	Restore to specific time/transaction	Restore/export DB schema	Export latest or point-in-time state	Publish latest or point-in-time state	Export as MDF/BAK

	Agents
Agent Backup to a Hyper-V VM	Guest OS files/folders/volumes
Agent Linux	Agent Windows
Agent Mac	Export a point as a virtual disk
P2C conversion	Application-level restore

Network Shares	
Restore entire file share	Rollback to a point in time
Restore files and folders	Restore permissions and security attributes
Instant share publishing	

Recovery scenarios with Veeam Backup & Replication v11

Backup Enterprise Manager			
1-click VM/file restore	Virtual disk restore	Launch failover plan	Restore of vCD infrastructure
Exchange item restore	SQL/Oracle DB restore	Self-service Restore Portal	Restore via RESTful API

	vCloud Director
Instant VM Recovery into vApp/vSphere	Full restore into vApp/vSphere
vCloud vApp restore	Linked Clone VMs to vCD

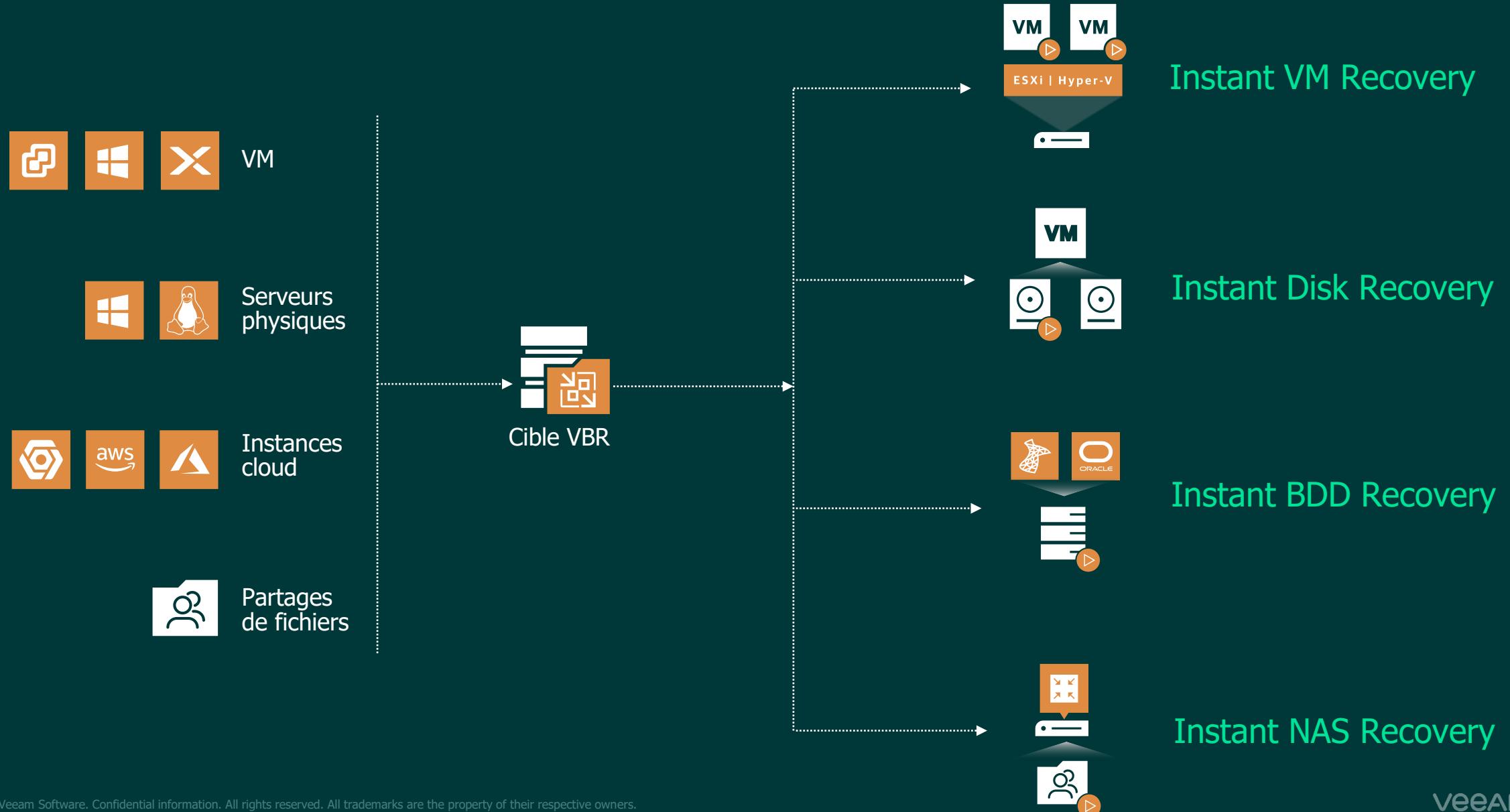
	Tape
Full VM to infrastructure	Files from tape
Backup from tape	Tenant restore

	Extra
Restore via PowerShell	Extract utility
File restore audit	Restore under user context

	Cloud
Partial/full site failover	Restore to Azure VM/AWS EC2
Restore from "deleted" VCC backups	Restore from object storage
Restore from the VCC Provider	C2V conversion via "external" repo

	Explorer for Storage Snapshots
Guest files (Windows/Multi-OS)	Instant VM/disk Recovery
SQL/Oracle DB restore	Exchange/SP/AD item restore

# Restauration instantanée Veeam



# Secure Restore (restauration sécurisée)

1. Sélectionnez le point de restauration



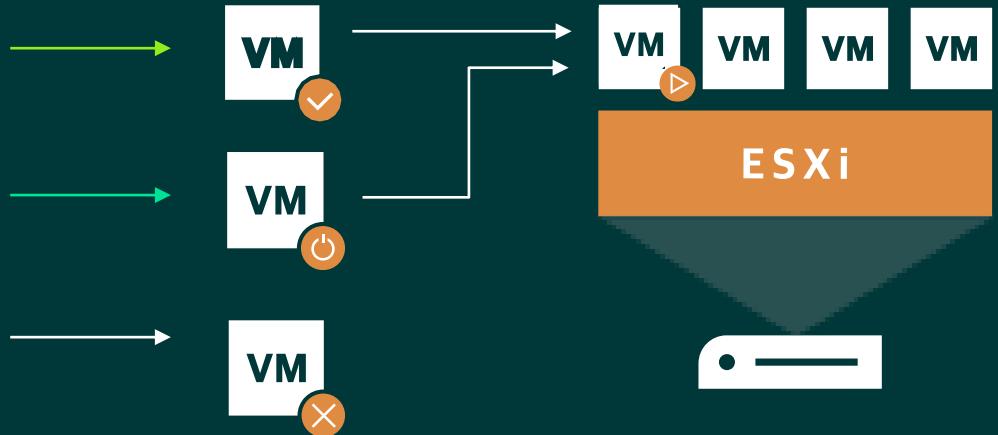
2. Montez les disques virtuels



3. Analyse AV en cours



4. Action basée sur le résultat de l'analyse AV



5. La VM nettoyée sera restaurée

# Pour résumer

# Veeam solution



## Ransomware Protection

Secure Backup is your last line of Defense



Backup

Trusted Immutability

Backup Verification

3-2-1-1-0 Rule



Recovery

Instant Recovery at Scale

Secure Restore

DR Orchestration

Software-defined. No lock-in with proprietary hardware

# Thank you

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# V12 What's New



# Configuration Database on Postgres

# Why Change Configuration Database?

## SQL Express limitations

- 10 GB maximum database size
- 4 cores maximum
- 1 MB buffer cache

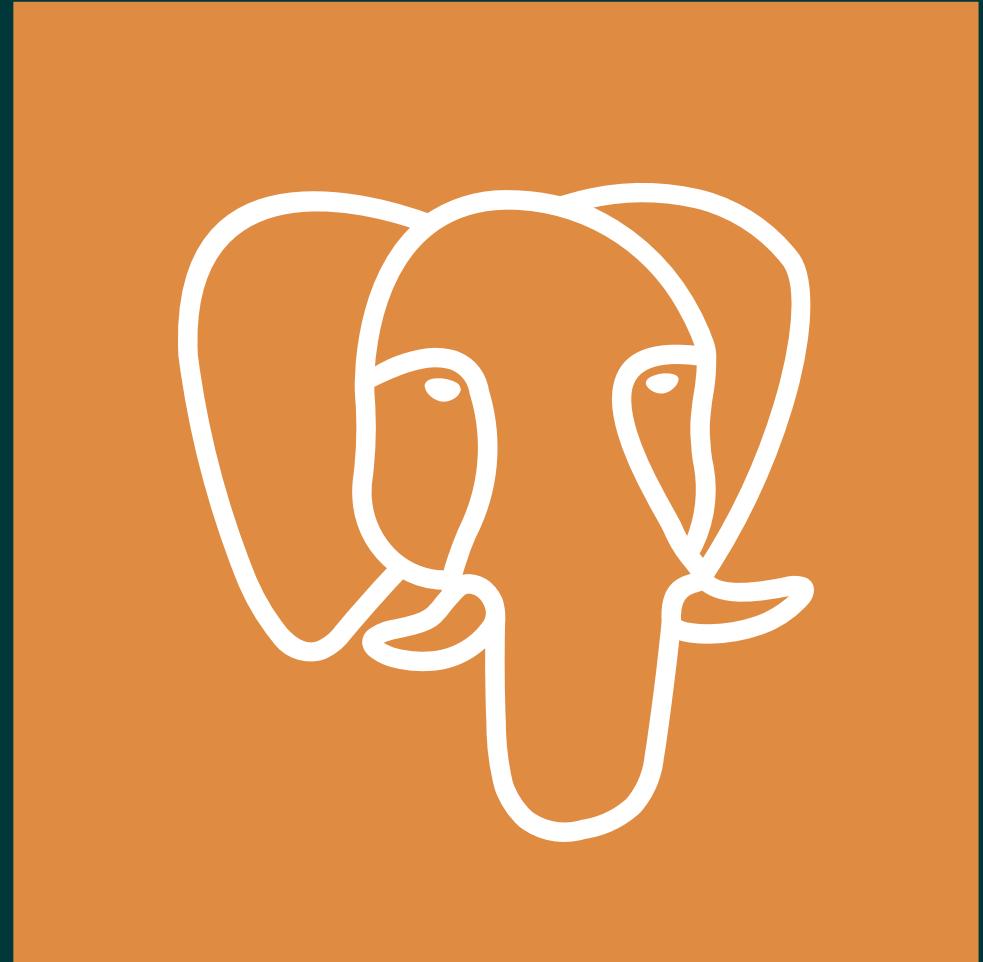
## SQL Standard / Enterprise Edition

- Too high costs



# Why Postgres?

- Free
- No database size or compute restrictions
- Proven in other Veeam Products
- Performance

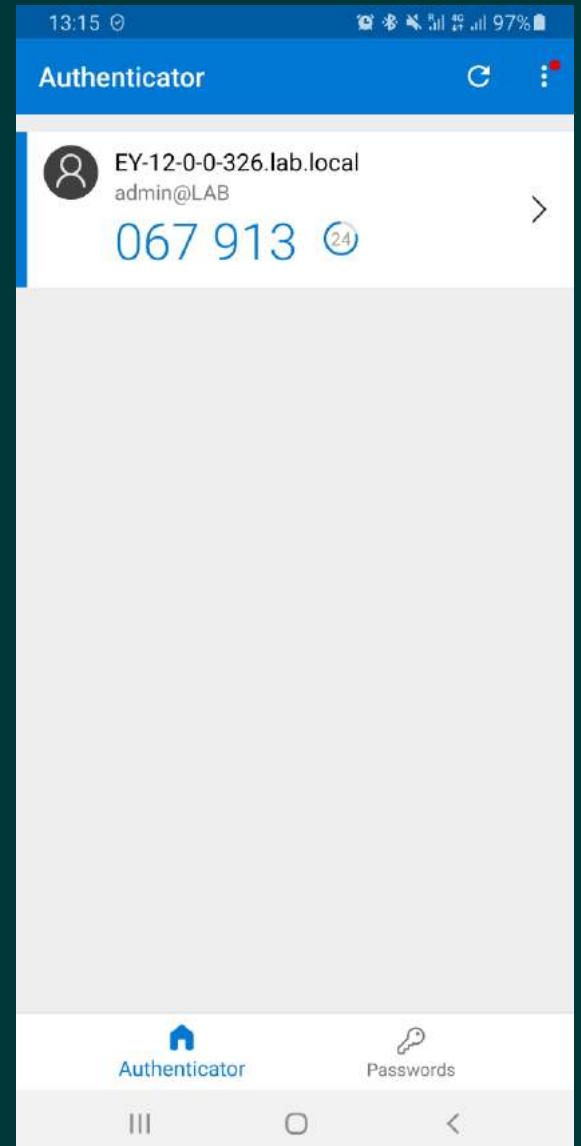
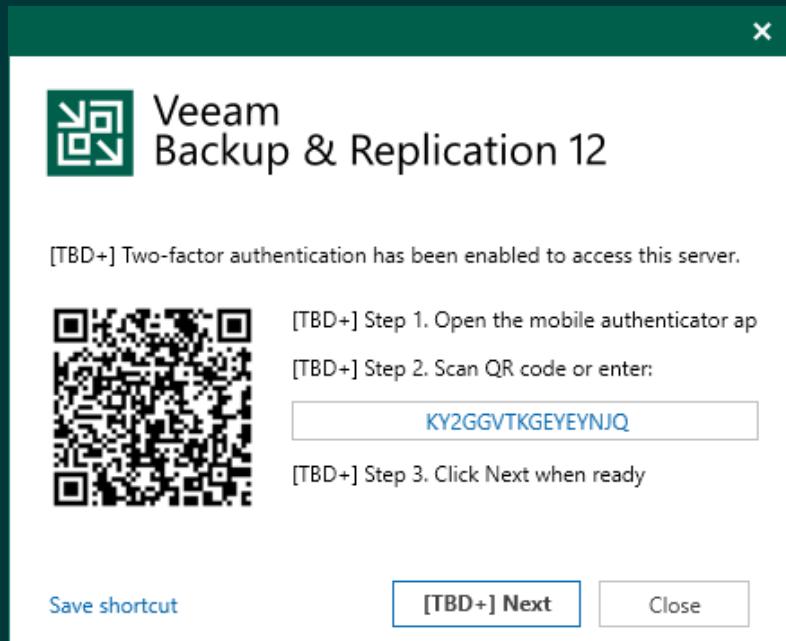


# Security And Compliance Improvements



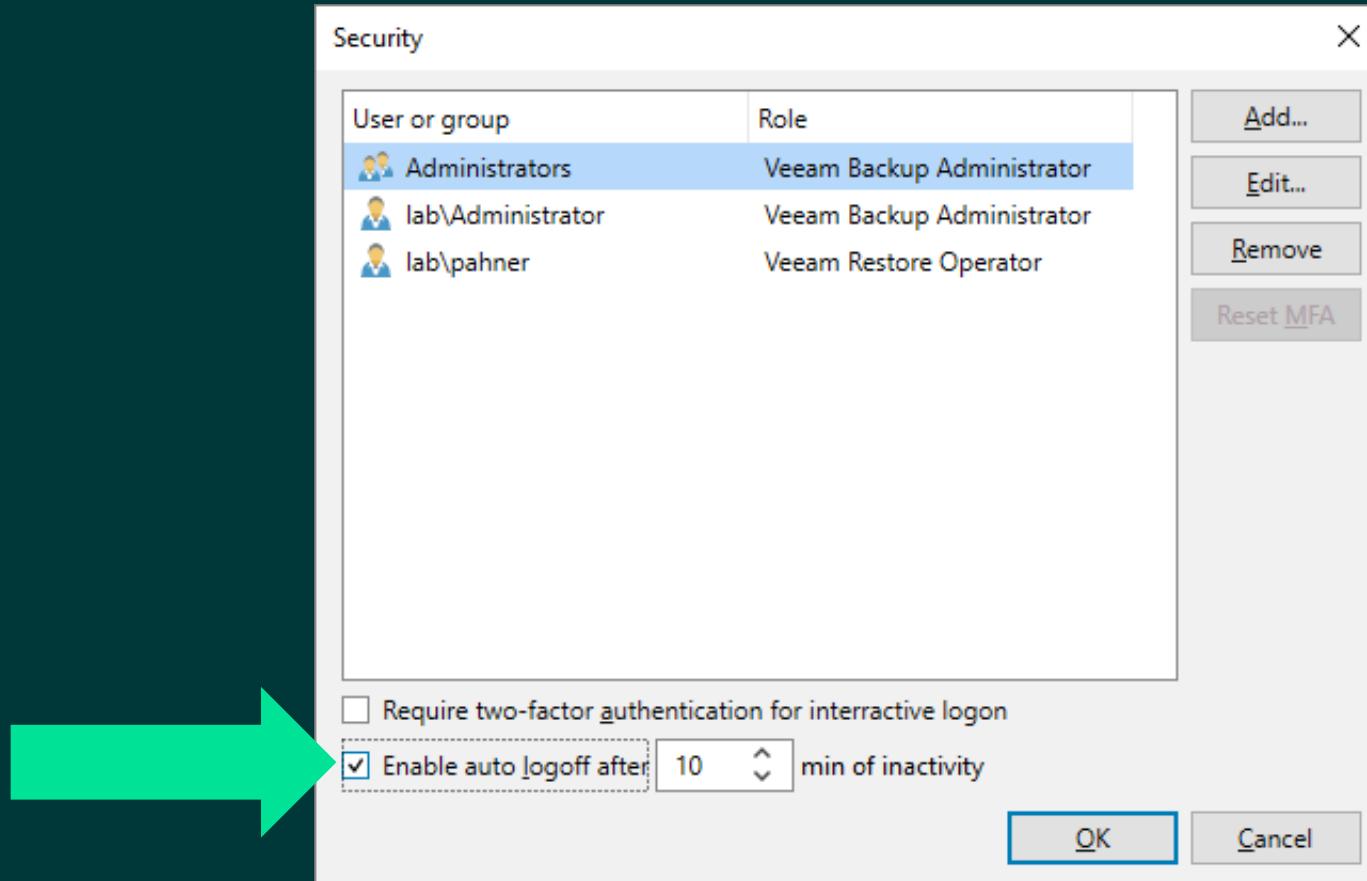
# MFA For Console

- MFA is configured for all users (one checkbox)
- Works with offline VBR servers / consoles
- No MFA with groups in the list!
- Disable per user



# Auto Logoff After X Minutes

- Requirement for security certification

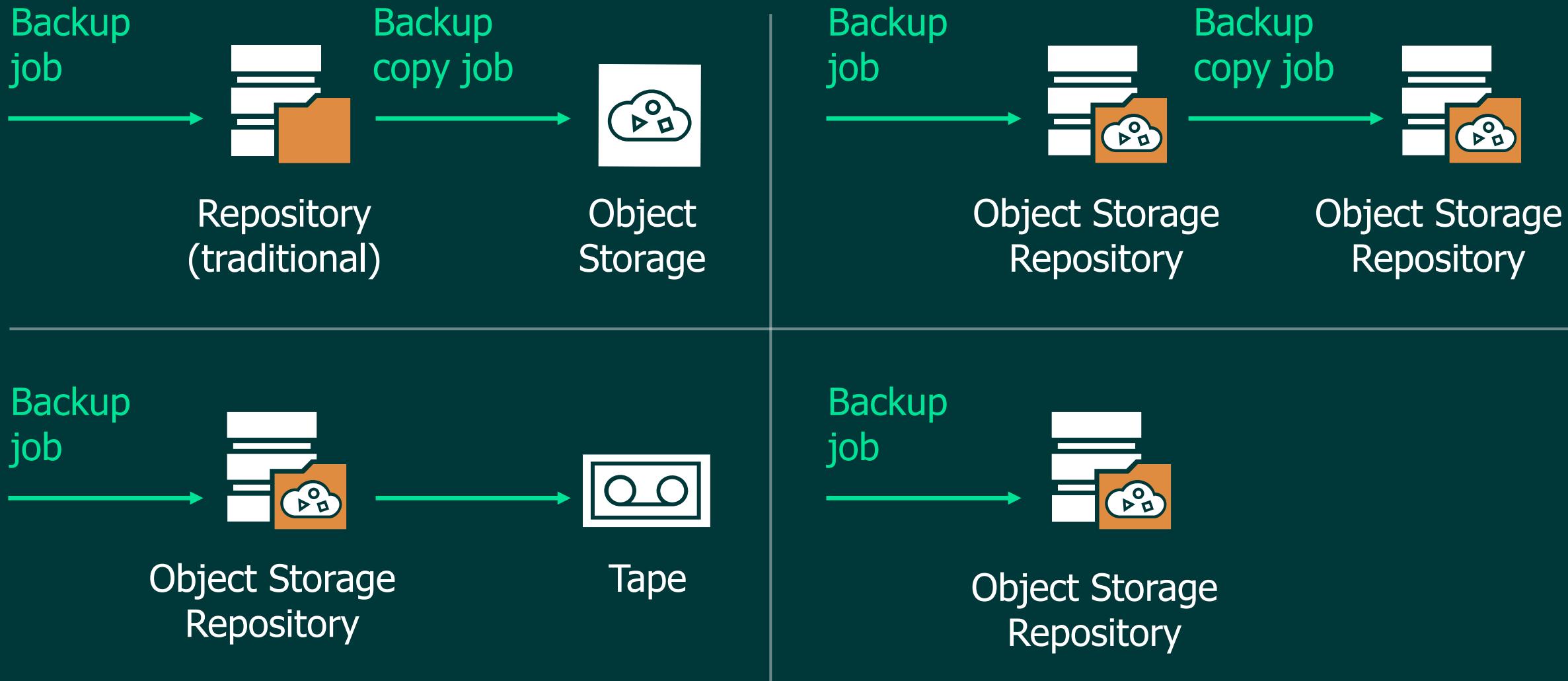


# Object Storage Improvements

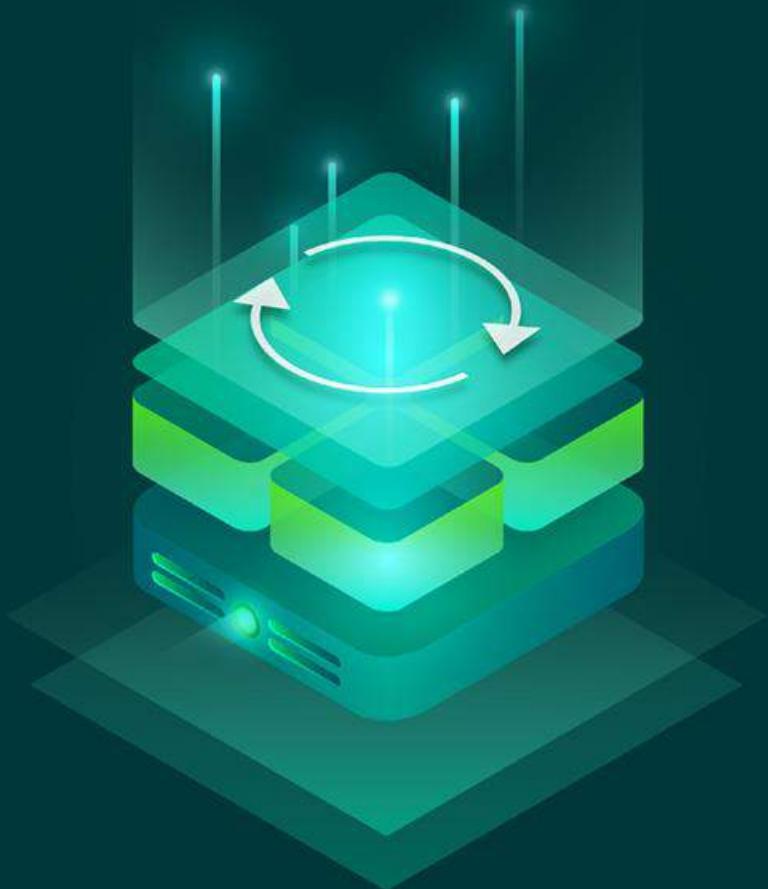


# Direct Backup to Object Storage

# Examples With Standalone Repositories



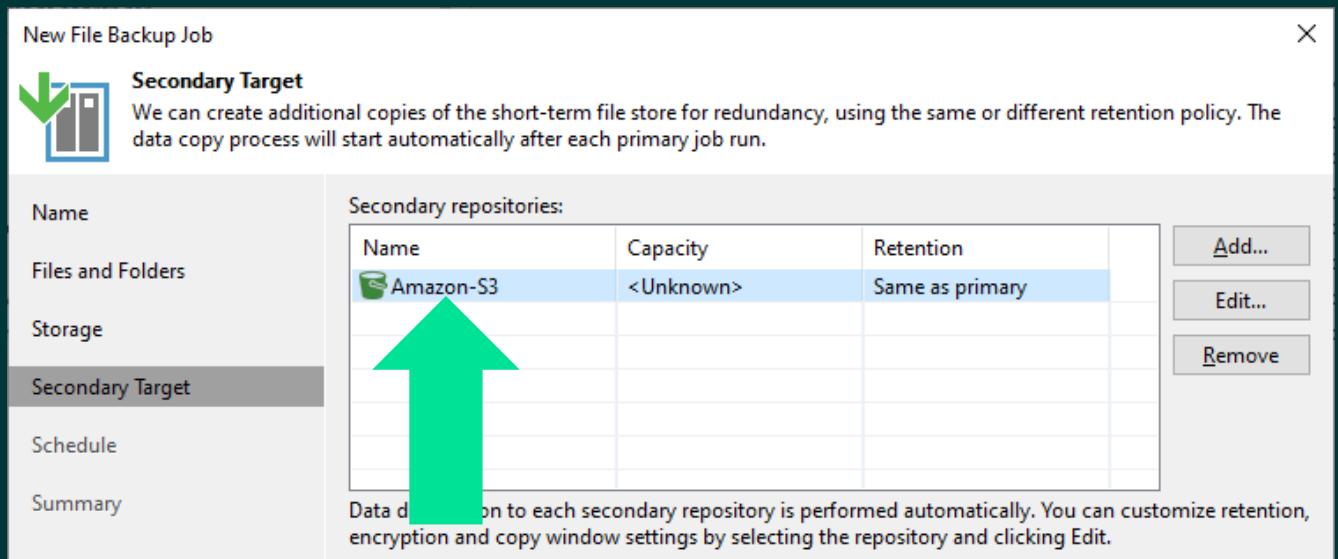
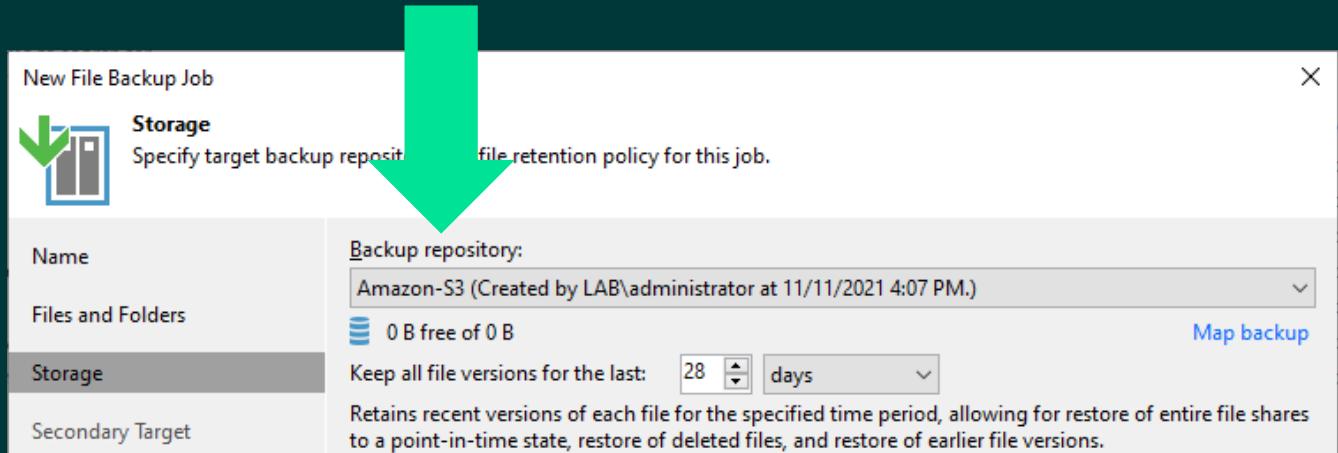
# NAS Backup



# Object Storage Support

# Object Storage Support

1. Backup job target (new)
2. Copy to the archive (new)
3. Archive repository target
4. Backup copy target (new)



# NAS Backup Immutability

# Any Repository With Immutability

- Hardened Repository
- Object Lock for object storage
- Primary backup and archive



Make recent backups immutable for: 7 days

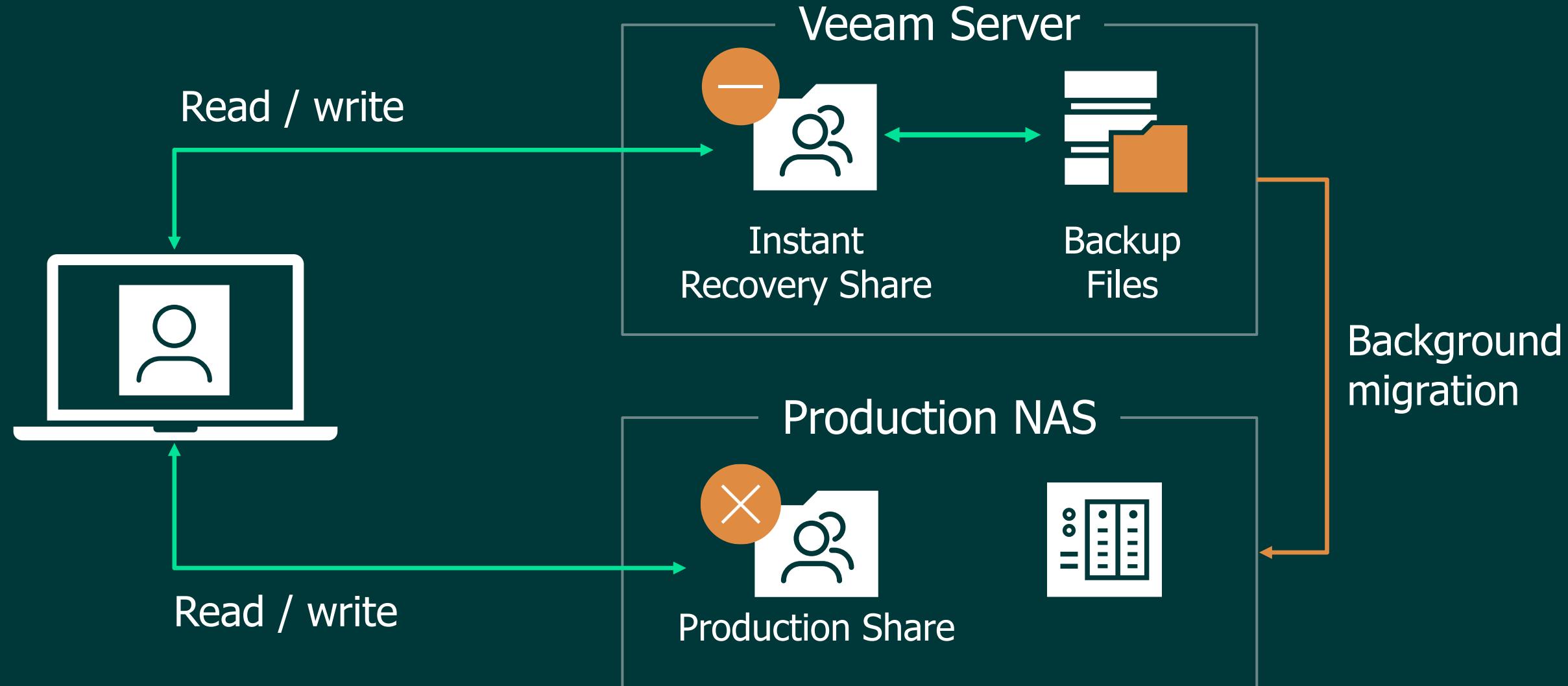
Protects backups from modification or deletion by ransomware, hackers or malicious insiders using native object storage capabilities.

# Bring SMB File Shares Online

*Fast*

# With NAS Instant Recovery

# Instant Recovery For SMB Shares



# Continuous Data Protection (CDP)



# CDP Proxy On Linux

New VMware CDP Proxy

**Server**  
Choose a server to act as a VMware CDP proxy. You can choose between Microsoft Windows servers added to the managed servers which are not assigned a CDP proxy role already. However, they can carry other roles.

**Server** Choose server: 172.21.239.53 (debian10) Add New...  
**Cache**  
**Traffic Rules**  
**Review**  
**Apply**  
**Summary**

Proxy description:  
Created by LAB\administrator at 10/14/2021 3:57 PM.

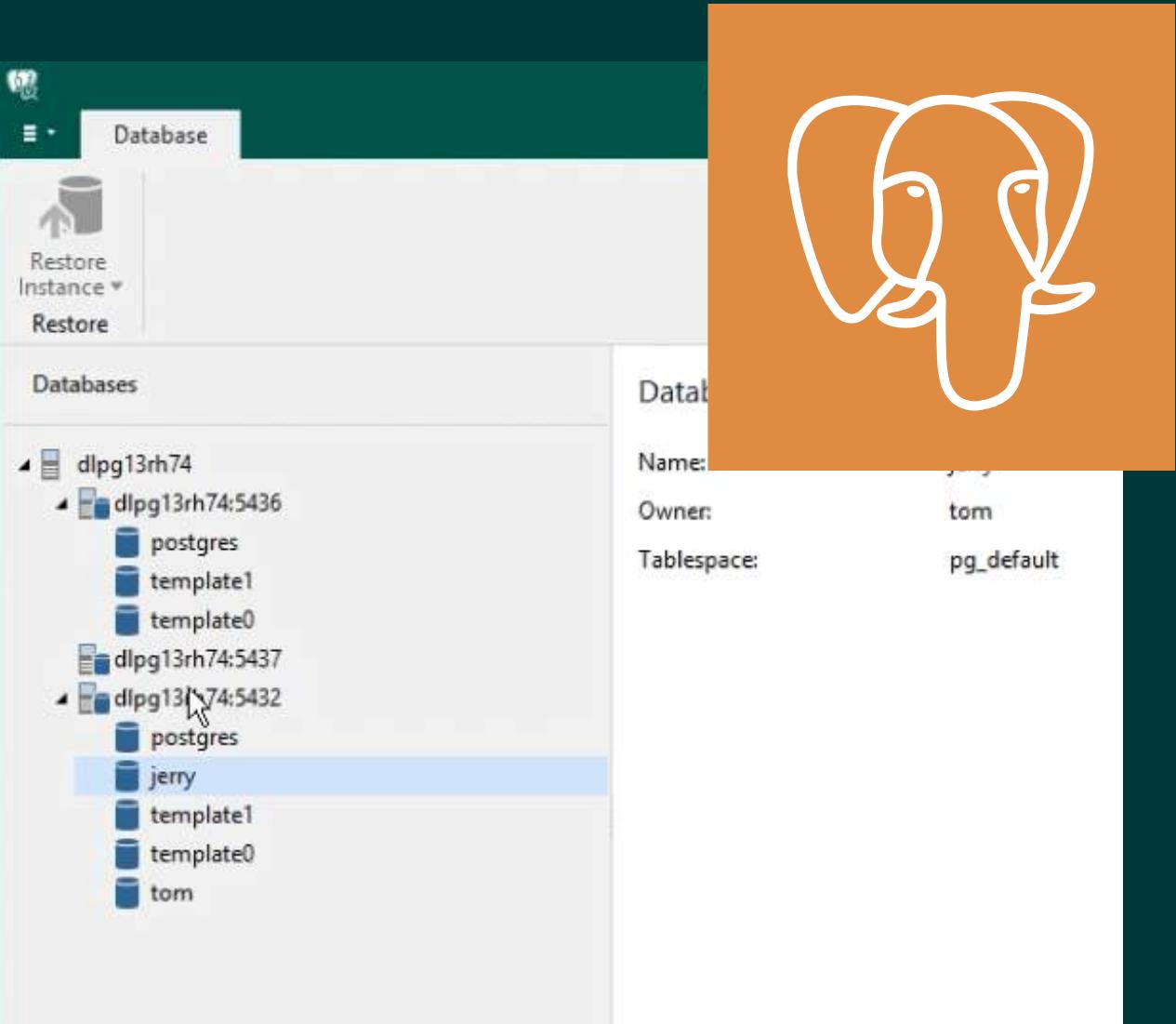
CDP host traffic port: 33032  
TCP/IP port for communication between the ESXi host and the CDP proxy server.

CDP proxy traffic port: 33033  
TCP/IP port for communication between source and target CDP proxy servers.

# PostgreSQL Application Aware Image Processing

# Backup & Restore Options For Postgres

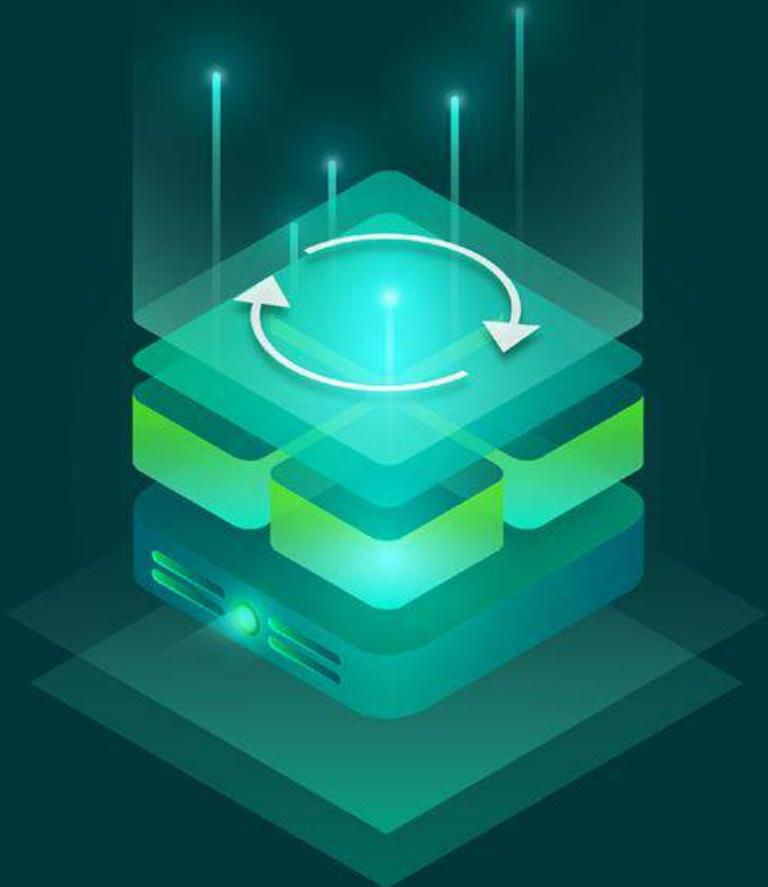
- Agentless for Linux VMs
- Veeam Agent for Linux support
- Log Shipping
- Restore at instance level
- Point in time restore
- Veeam Explorer and Enterprise Manager support



# Restore Postgres In Enterprise Manager

The screenshot shows the Veeam Enterprise Manager interface for restoring a PostgreSQL database. The main window displays a navigation bar with items like Dashboard, Reports, Jobs, Policies, File Shares, Machines, Files, Items, and Requests. Below the navigation bar, tabs for Mailbox Items, SQL Database, Oracle Database, and [TBD] PostgreSQL Instance are visible, with [TBD] PostgreSQL Instance selected. A sub-menu for [TBD] PostgreSQL Instance is open, showing options for History, Restore point, [TBD] Show databases, Point in time, and Restore to. The [TBD] Show databases option is currently active, displaying a list of databases: postgres, template1, and template0. An 'OK' button is at the bottom right of the dialog.

# Tape Support



# Improved File-To-Tape

# Things We Optimized (1)

- Backup and enumeration run at same time (like NAS backup)
- Asynchronous read
- Parallel tape drive support
- Tons of database optimizations



# Things We Optimized (2)

- PostgreSQL has none of the SQL express limitations
- File enumeration in batches
  - *Like NAS backup: CRCs file tree, but stored in configuration database*
- Data transfer in batches
  - *One batch is 10GByte per default*



# NAS Backup To Tape

# Why From Disk To Tape?

Avoid load on production NAS storage

Fulfill 3-2-1 rule with tape



# Other Tape News

# Tape Server On Linux

Run directly on Linux Repository\*

Save Windows license costs

SCSI drivers used

no vendor drivers for library or drives  
(easier than on Windows)



\*standard Linux repository – no Hardened Repository

# Improved LTO9 Support

- Hotfix for initialization available for 11a
- V12 works out of the box with LTO9



# Thank you

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# Nouveautés licensing

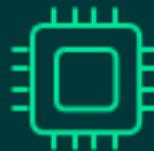
# Différents types de Licences

# Les licences chez Veeam



## Licence universelle (par workload)

Une licence portable  
pour protéger les workloads cloud,  
virtuels, physiques, les applications et  
les partages de fichiers  
Sur site, dans le cloud et le multicloud



## Licence par socket (par socket CPU)

Licence par socket  
limitée aux workloads virtuels  
sur site uniquement

### Licences client final



## Licences par abonnement pour les VCSP

Permet aux fournisseurs de cloud et  
de services gérés d'accéder  
à un modèle de licences facturées à  
l'utilisation

### Licences pour fournisseurs de services

# Arret de commercialisation des licences au CPU

# Fin de commercialisation des sockets

Renouvellement maintenance socket	Migration vers VUL	Achat de VUL	Achat de sockets (pour les clients)	Achat de socket (pour les prospect)
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**Après le  
1er juillet 2022**



**Après le  
31 Decembre  
2022**



# Veeam Universal License

	Workloads	Licence universelle	Licence perpétuelle
Environnements		Local, cloud et hybride	Local
<b>Machines virtuelles</b> VMware vSphere, Microsoft Hyper-V, Nutanix AHV, RedHat		✓	vSphere, Hyper-V
<b>Serveurs physiques, postes de travail et terminaux</b> : Windows, Linux, Mac et Unix		✓	✗
<b>Applications d'entreprise</b> et bases de données pour Microsoft, Oracle, SAP HANA, PostgreSQL, MySQL, etc.		✓	✗
Cloud natif : AWS, Azure, GCP		✓	✗
Partages de fichiers <b>NAS</b>		✓	✗

VUL	Workload / Calcul instances	# instance / workload
Workloads	VM (vSphere/Hyper-V/AHV/REDHAT)	1
	Serveur/Veeam Agent pour Microsoft Windows, Linux, Oracle Solaris, et IBM AIX	1
	Pack de 3 postes de travail (Windows/Linux/MAC)	1
	Serveur d'applications (Oracle/SAP/BDD)	1
	Pack capacité front-end NAS (500 Go)	1

# Possibilité de dépassement de licences

[https://helpcenter.veeam.com/docs/backup/vsphere/license\\_exceeding.html?ver=110](https://helpcenter.veeam.com/docs/backup/vsphere/license_exceeding.html?ver=110)

License Type	Exceeding Limit	Description
Socket license	Not allowed	Workloads that are exceeding the license limit are not processed.
Veeam Universal License (VUL)	Less than 5 instances (or 5% of the total instance count)	All protected workloads are processed normally, Veeam Backup & Replication does not display a warning message.
	5–10 instances (or 5%–10% of the total instance count)	All protected workloads are processed normally. Once a week when you open the Veeam Backup & Replication console, a warning message is displayed notifying that you are out of compliance with the Veeam Licensing Policy.
	More than 10 instances (or 10% of the total instance count)	Workloads that are exceeding the license limit beyond 10 instances (or 10% of the total instance count) are not processed. Every time you open the Veeam Backup & Replication console, a warning message is displayed notifying that you are out of compliance with the Veeam Licensing Policy.

# Comment migrer vers la VUL?

# Process de migration

- Conversion de xx CPU vers xx VUL (correspondant au nombre de VM sauvegardées)
- Prolongement du support d'un an

# Exemple de couts de migration

# Exemple Cout de migration Essential

Product SKU	Promo Type	Veeam Product Description	cout migration	cout renew cpu
V-ESSVUL-6S-BP1MG-50	VBE Express Migration	Express Migration from Veeam Backup Essentials Enterprise Plus 6 socket to Veeam Backup Essentials Universal 50 instance License. Includes Enterprise Plus Edition features. - 1 year with Production Support.	2 824,23 €	1 889,13 €
V-ESSVUL-6S-BE1MG-50	VBE Express Migration	Express Migration from Veeam Backup Essentials Enterprise 6 socket to Veeam Backup Essentials Universal 50 instance License. Includes Enterprise Plus Edition features. - 1 year with Production Support.	1 884,25 €	1 260,36 €
V-ESSVUL-6S-BS1MG-50	VBE Express Migration	Express Migration from Veeam Backup Essentials Standard 6 socket to Veeam Backup Essentials Universal 50 instance License. Includes Enterprise Plus Edition features. - 1 year with Production Support.	944,27 €	631,62 €
<hr/>				
V-ESSVUL-4S-BP1MG-40	VBE Express Migration	Express Migration from Veeam Backup Essentials Enterprise Plus 4 socket to Veeam Backup Essentials Universal 40 instance License. Includes Enterprise Plus Edition features. - 1 year with Production Support.	1 882,82 €	1 259,42 €
V-ESSVUL-4S-BE1MG-40	VBE Express Migration	Express Migration from Veeam Backup Essentials Enterprise 4 socket to Veeam Backup Essentials Universal 40 instance License. Includes Enterprise Plus Edition features. - 1 year with Production Support.	1 256,17 €	840,24 €
V-ESSVUL-4S-BS1MG-40	VBE Express Migration	Express Migration from Veeam Backup Essentials Standard 4 socket to Veeam Backup Essentials Universal 40 instance License. Includes Enterprise Plus Edition features. - 1 year with Production Support.	629,51 €	421,08 €

# Exemples Cout de migration

## **Exemple client dans les 2 Savoies**

Renew 56 CPU VAS Enterprise Plus

Ajout 6 nouveaux CPU

Alignement support Production en 2027

TOTAL : 250K€ HT

Migration vers 800 VUL (+10% tampon)

TOTAL : 200K€ HT

## **Exemple client dans l'Ain**

Renew 26 CPU VBR Enterprise Plus

Ajout 5 nouveaux CPU

1 an support Basic

TOTAL : 53K€ HT

Migration vers 350 VUL (+10% tampon)

TOTAL : 34K€ HT

## **Exemple client Lyonnais**

Renew 4 CPU VBR Enterprise pour le DC (120 VM)

Ajout de 2 CPU

Migration de 37 CPU vers 210 VUL pour les sites distants

# Pour résumer

# Quand rester au CPU ou migrer à VUL?

## Renouvellement CPU si:

- Pas d'évolution prévue
- Pas de migration Cloud prévue
- Plus de 50 VM sur 6 CPU (ou moins)

## Migration à la VUL si:

- Migration dans le cloud
- Extension prévue (ajout d'hyperviseurs)
- Besoin d'upgrade Enterprise Plus
- Migration vers Nutanix AHV

# Thank you

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# Démo

# Veeam Backup for Microsoft 365

# Thank you

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