



# Wiki Wednesday

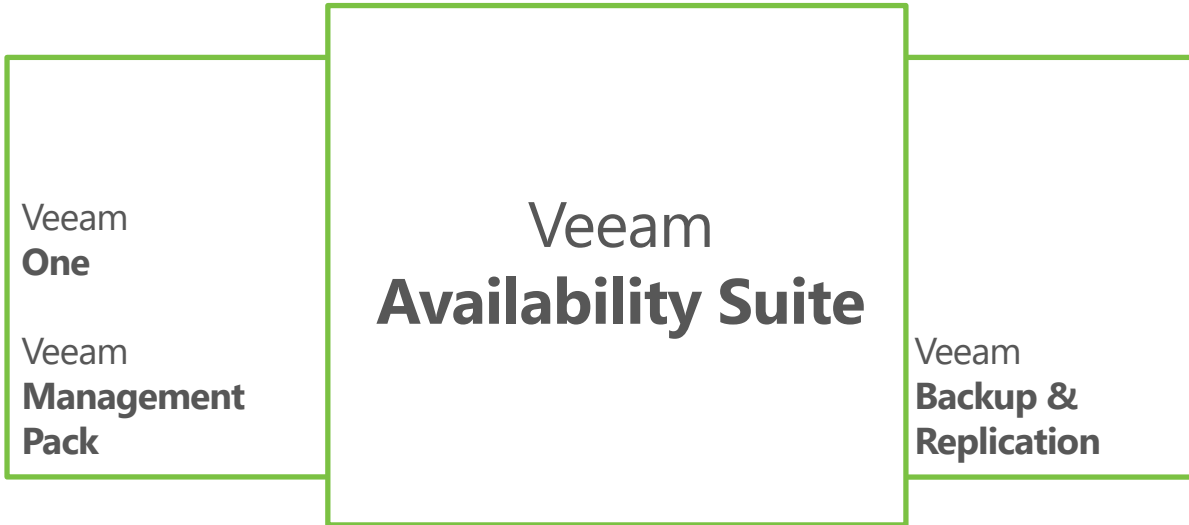
Timothy Dewin

<http://teeam.eu>

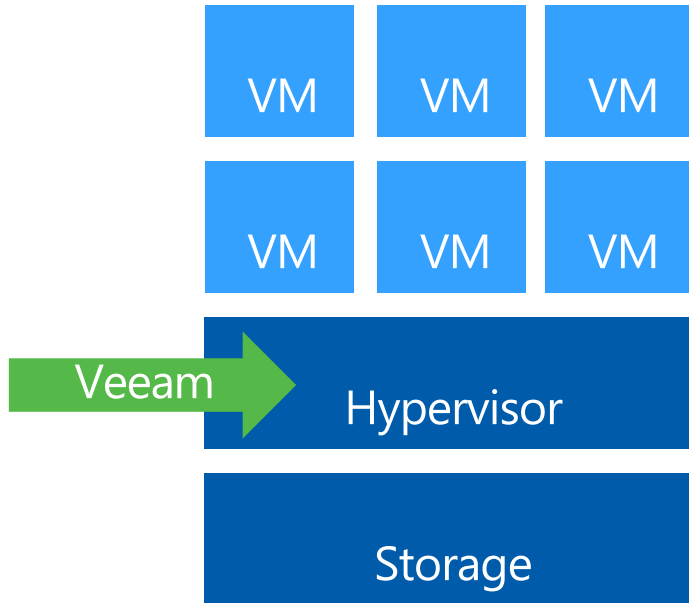




Who is Veeam?



# Agentless



## No persistent agents

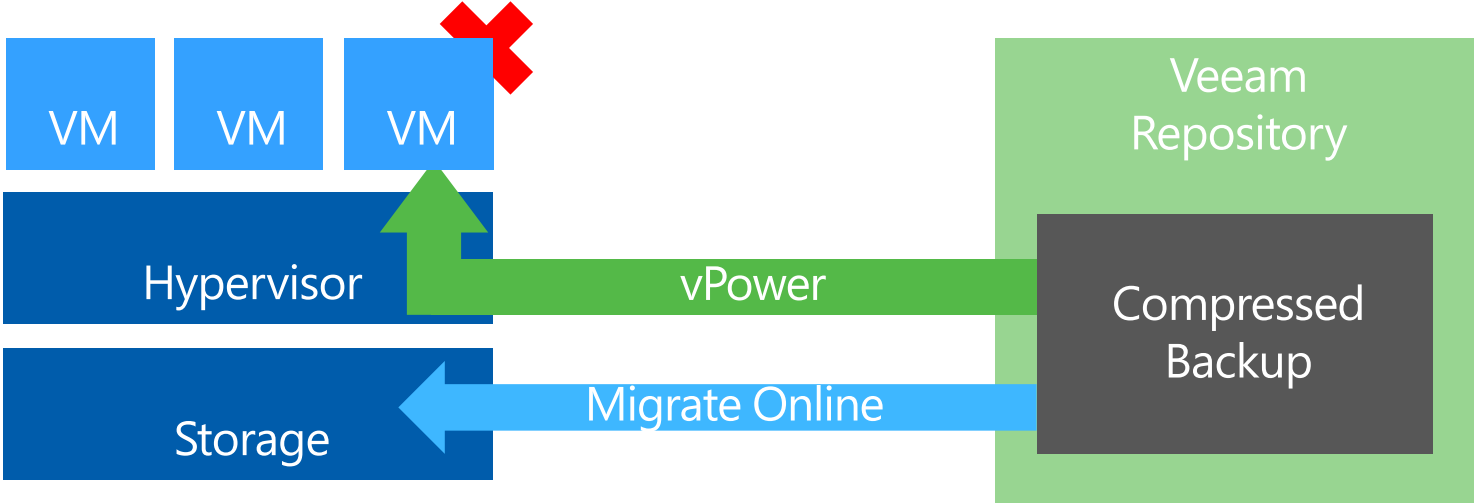
- No installation
- No configuration
- No updates

## Growth is not an issue

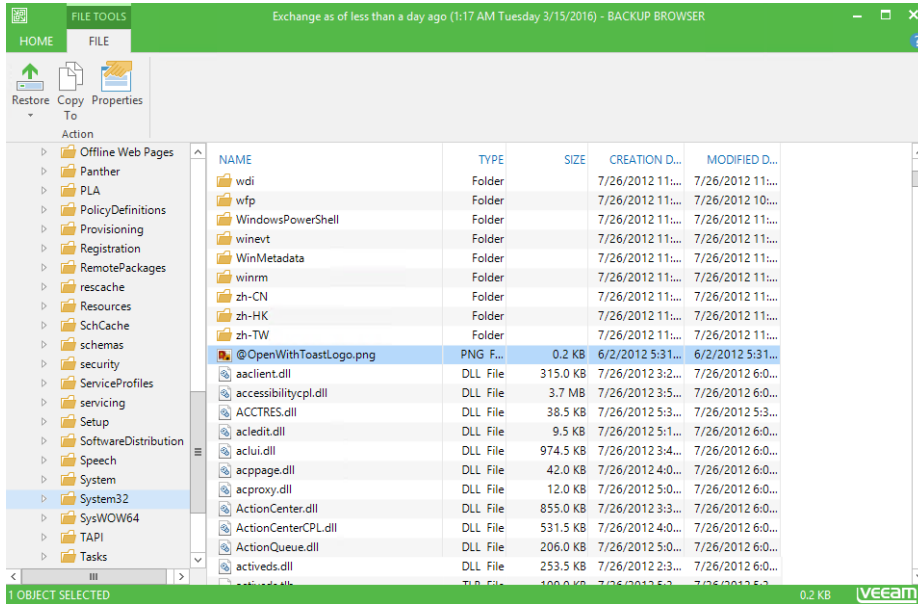
- No Installation
- Automatic Inclusion
- No complex scheduling

**Still Consistent via VSS!**

# Instant VM Recovery



# File Level Recovery



**Fast:**  
instantly restore guest files  
(without having to first restore the VM)

**Universal:**  
supports any guest OS  
and file system

**Flexible:**  
restore from backups  
or replicas

# Veeam Explorer for MS Exchange

## Visibility:

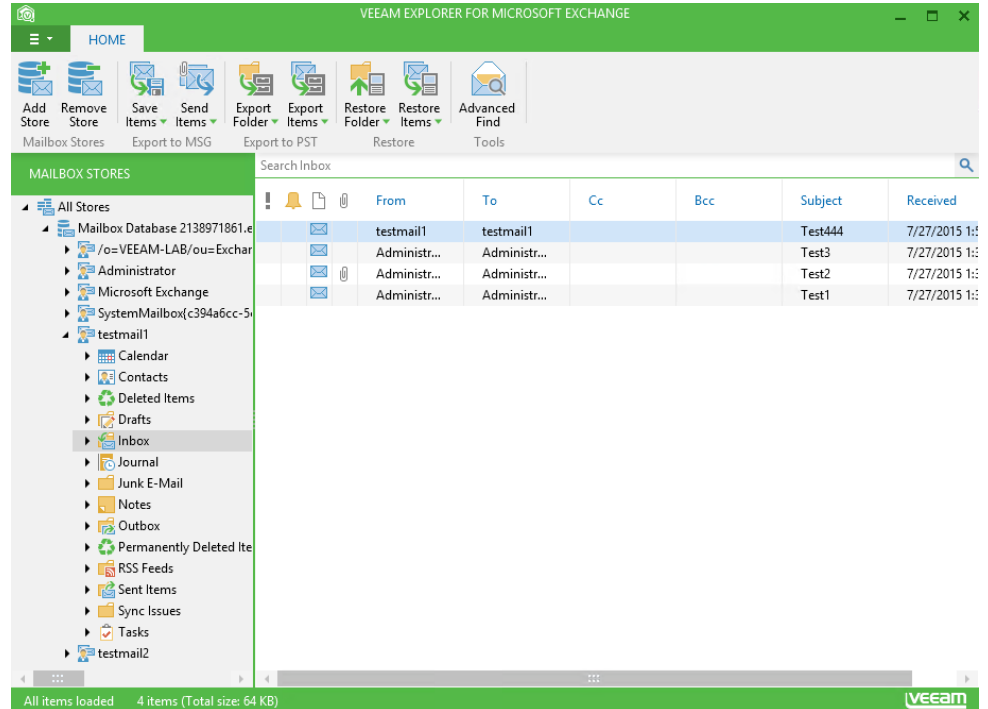
instant visibility into Exchange VM backups

## E-discovery:

browse and search mailboxes and mailbox stores

## Item recovery:

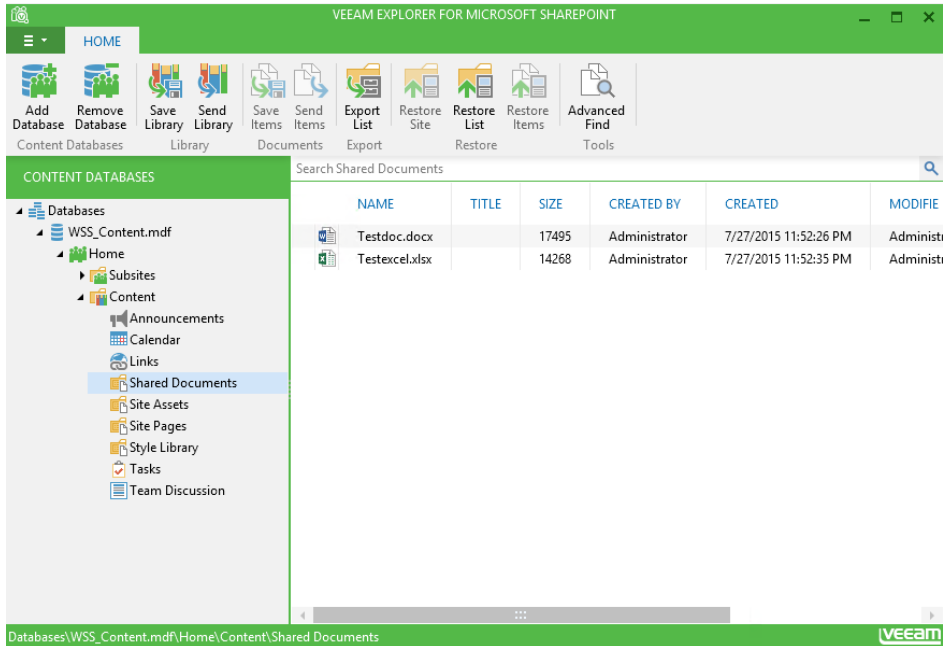
Export, attach or restore directly to mailbox store



The screenshot displays the Veeam Explorer for Microsoft Exchange interface. The top navigation bar includes a 'HOME' tab and a search box labeled 'Search Inbox'. Below the navigation bar is a toolbar with icons for 'Add Store', 'Remove Store', 'Save Items', 'Send Items', 'Export Folder', 'Export Items', 'Restore Folder', 'Restore Items', and 'Advanced Find'. The main area is divided into two panes. The left pane, titled 'MAILBOX STORES', shows a tree view of mailbox stores, including 'All Stores', 'Mailbox Database 2138971861.e...', and 'testmail1'. The right pane displays a list of email items with columns for 'From', 'To', 'Cc', 'Bcc', 'Subject', and 'Received'. The status bar at the bottom indicates 'All items loaded' and '4 items (Total size: 64 KB)'. The Veeam logo is visible in the bottom right corner.

	From	To	Cc	Bcc	Subject	Received
	testmail1	testmail1			Test444	7/27/2015 1:
	Administr...	Administr...			Test3	7/27/2015 1:
	Administr...	Administr...			Test2	7/27/2015 1:
	Administr...	Administr...			Test1	7/27/2015 1:

# Veeam Explorer for MS SharePoint



The screenshot displays the Veeam Explorer for Microsoft SharePoint interface. The top bar is green and contains the title 'VEEAM EXPLORER FOR MICROSOFT SHAREPOINT' and standard window controls. Below the title bar is a 'HOME' tab and a toolbar with icons for 'Add Database', 'Remove Database', 'Save Library', 'Send Library', 'Save Items', 'Send Items', 'Export List', 'Restore Site', 'Restore List', 'Restore Items', and 'Advanced Find'. The main area is divided into a left sidebar and a main pane. The sidebar, titled 'CONTENT DATABASES', shows a tree view of the database structure: 'Databases' > 'WSS\_Content.mdf' > 'Home' > 'Content' > 'Shared Documents'. The main pane shows a search for 'Shared Documents' with a table of results:

NAME	TITLE	SIZE	CREATED BY	CREATED	MODIFIED
Testdoc.docx		17495	Administrator	7/27/2015 11:52:26 PM	Administrator
Testexcel.xlsx		14268	Administrator	7/27/2015 11:52:35 PM	Administrator

The bottom status bar shows the path 'Databases\WSS\_Content.mdf\Home\Content\Shared Documents' and the Veeam logo.

## Visibility:

Instant visibility and browsing of SharePoint databases

## Discovery:

Advanced search for specific SharePoint items

## Item recovery:

Fast, easy, and agent-free restore of SharePoint items.



# Veeam Explorer for MS AD

## Visibility:

Looks exactly like your AD tools

## Discovery:

browse and search for missing items. Compare option added

## Item recovery:

Export or restore directly to AD with password!

The screenshot displays the Veeam Explorer for Microsoft Active Directory interface. The top navigation bar includes a 'HOME' button and a toolbar with various actions: Add Database, Remove Database, Export Container, Export Objects, Restore Container, Restore Objects, Compare selected object, Compare all objects, Show Changed Objects Only, Use LDAP Filter, and Advanced Features. The main area is divided into a left-hand tree view and a right-hand table view.

**ACTIVE DIRECTORY DATABASES**

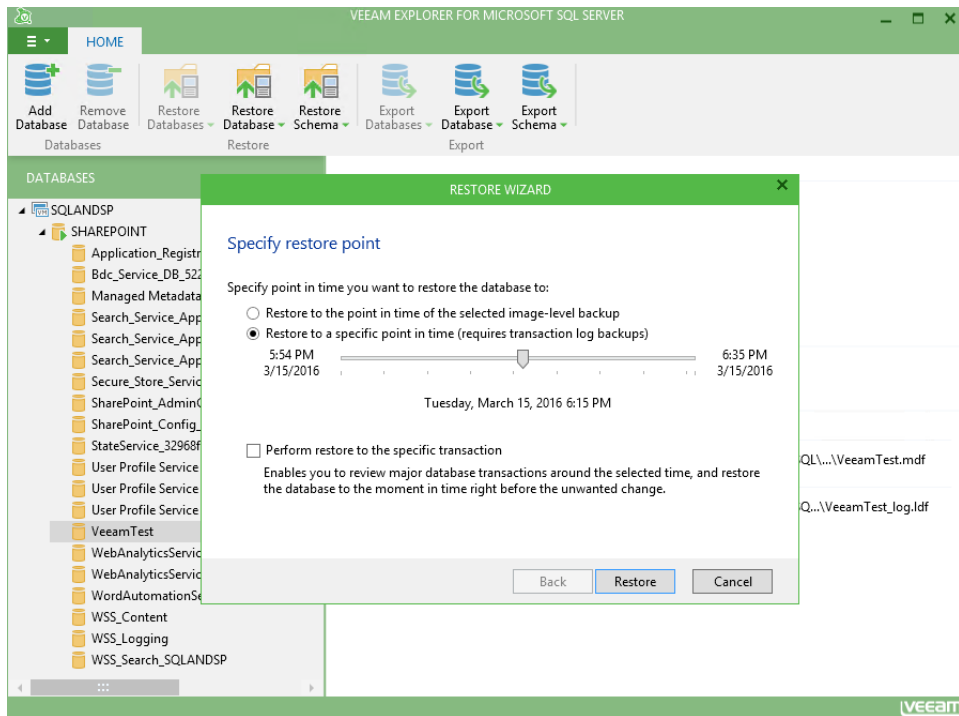
- Active Directory
  - veeam.lab
    - Users and Computers
      - Computers
      - Domain Controllers
      - ForeignSecurityPrinci
      - Managed Service Acc
      - Microsoft Exchange S
      - Program Data
      - TestOU
      - Users
      - Group Policy Objects
      - Integrated DNS
      - Configuration Partition

**Search Users**

NAME	TYPE	STATUS	DESCRIPTION
Administrator	user		Built-in account for ac
Allowed RODC Password Replication Group	group		Members in this group
Cert Publishers	group		Members of this group
Cloneable Domain Controllers	group		Members of this group
Denied RODC Password Replication Group	group		Members in this group
Discovery Search Mailbox	user		
DnsAdmins	group		DNS Administrators G
DnsUpdateProxy	group		DNS clients who are p
Domain Admins	group		Designated administr
Domain Computers	group		All workstations and s
Domain Controllers	group		All domain controllers
Domain Guests	group		All domain guests
Domain Users	group		All domain users
Enterprise Admins	group		Designated administr
Enterprise Read-only Domain Controllers	group		Members of this group
Group Policy Creator Owners	group		Members in this group
Guest	user		Built-in account for g

Load completed 30 objects found.

# Veeam Explorer for MS SQL



Easy log backup:  
Full Image based backup  
Transactional log backup every  
x minutes

Recovery:  
Last restore point  
Point-in-time  
Specific Transaction

# Veeam Explorer for Oracle

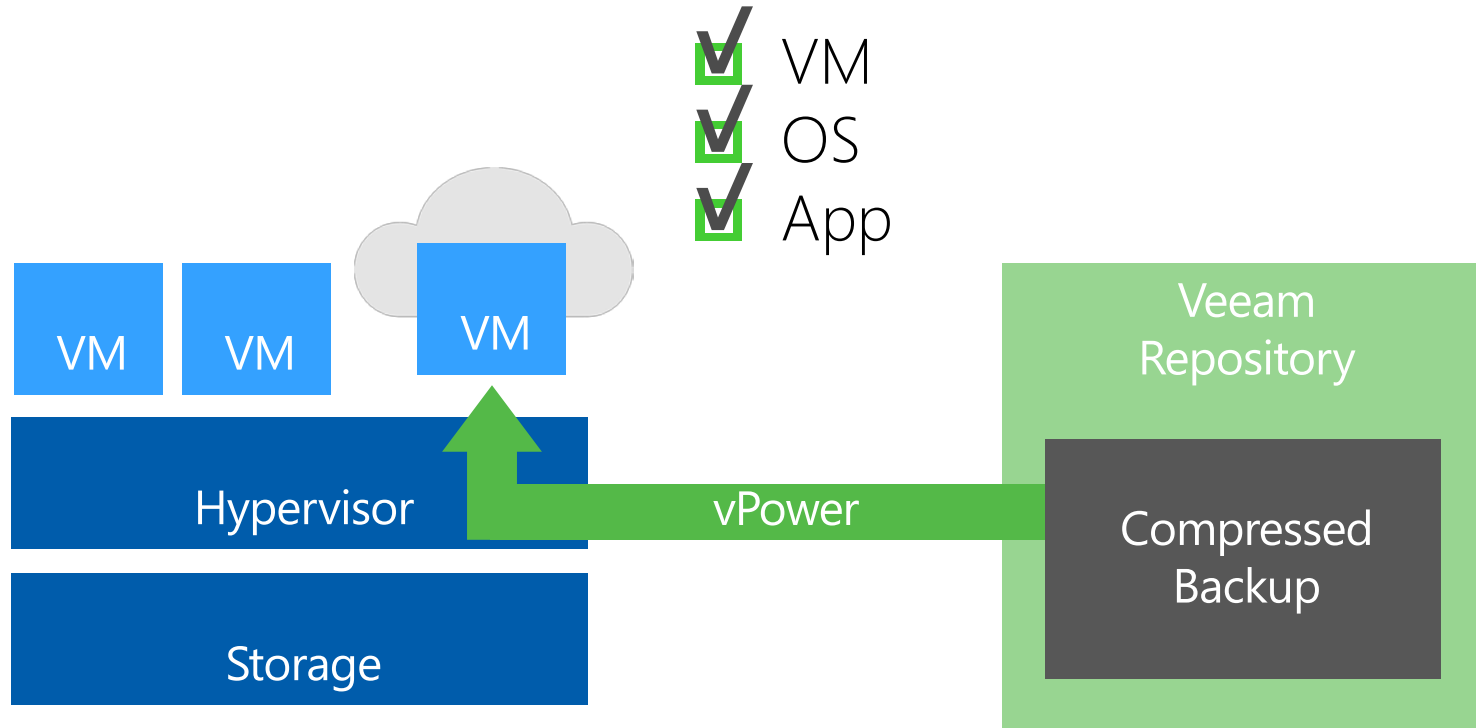
Veeam Explorer for Oracle supports Oracle databases running on both **Linux and Windows VMs**.



Veeam Backup server



# Surebackup / Lab Support

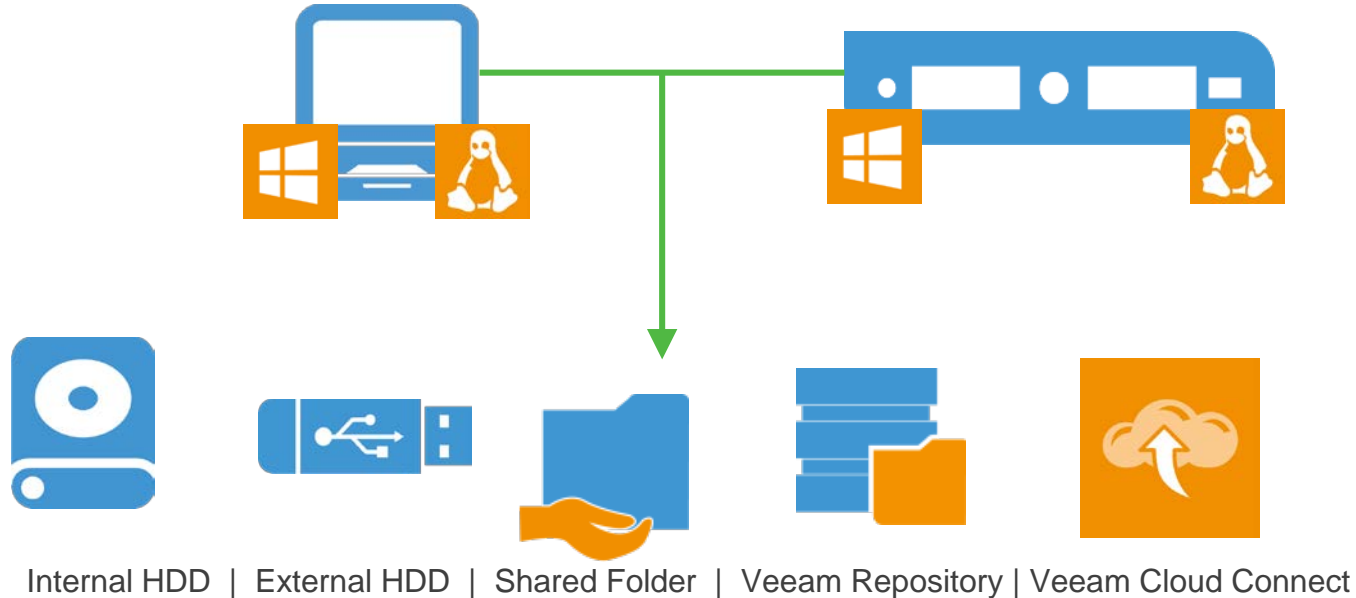


More high tech



# Veeam Agents

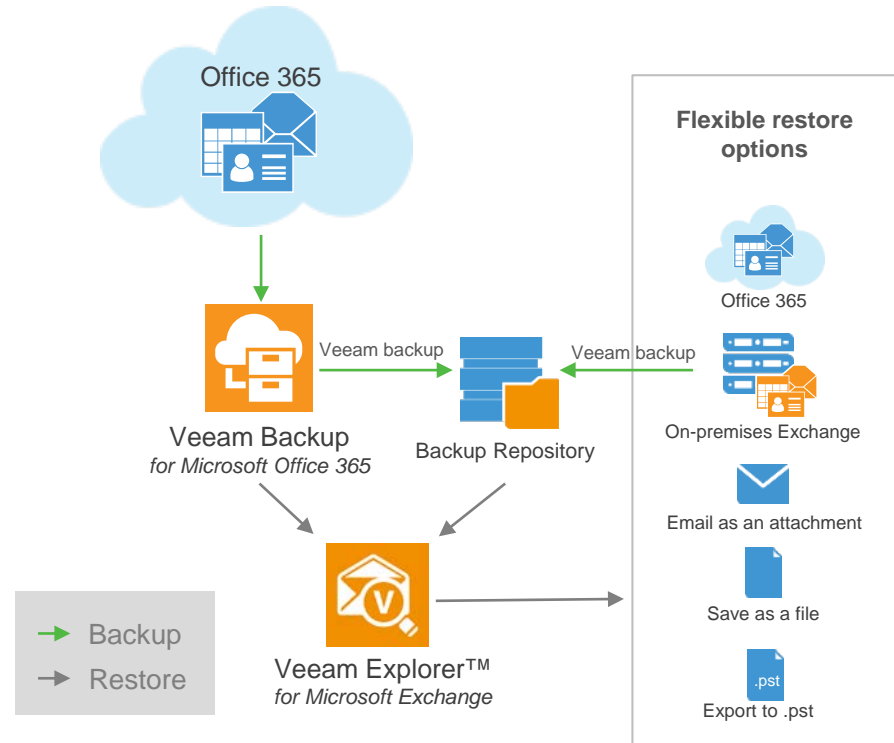
Protect servers and workstations  
on-premises and in the cloud



# Veeam Backup for Microsoft Office 365

Securely backup Office 365 email data back to your environment

Quickly recover individual mailbox items with best-of-breed granularity

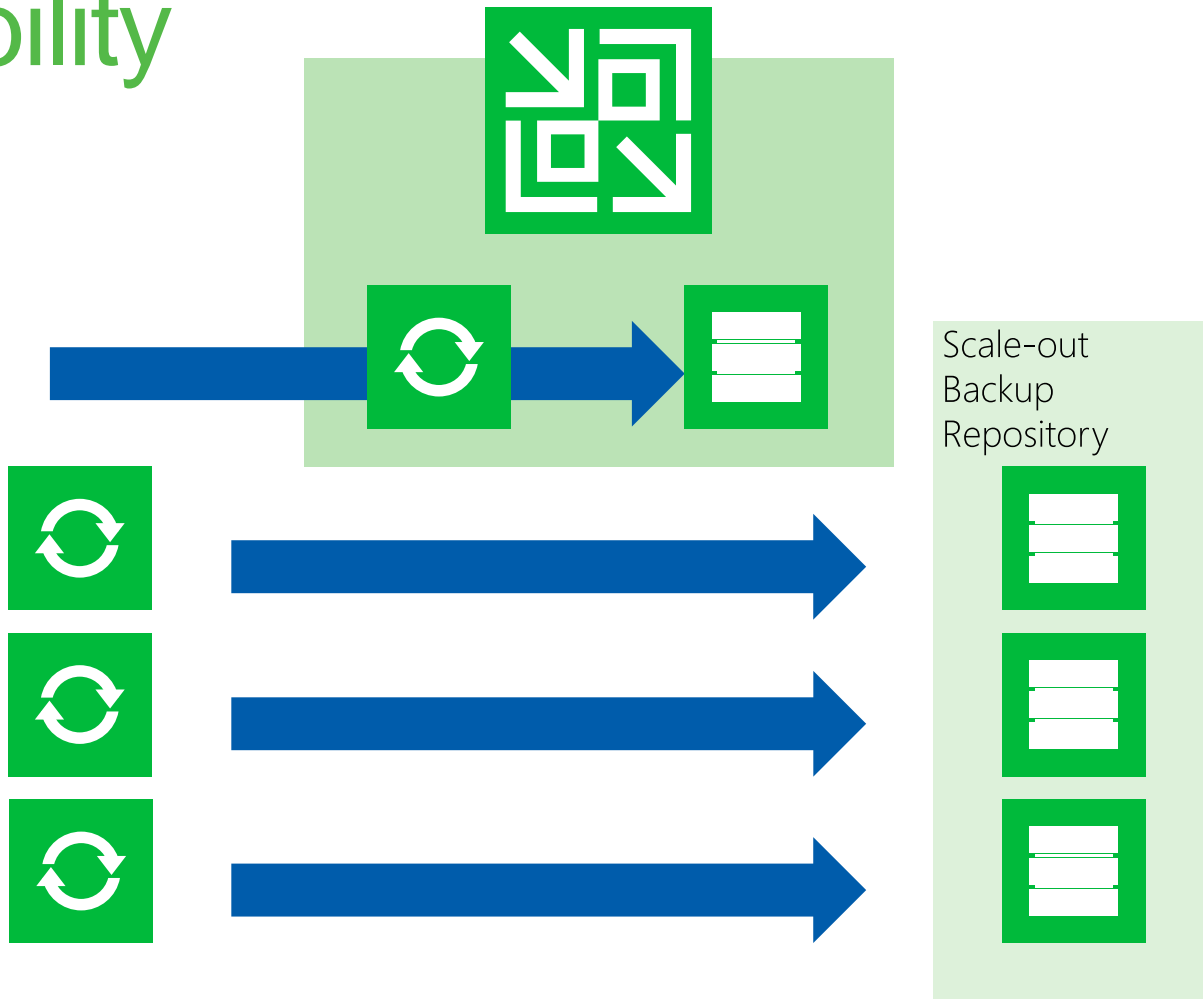


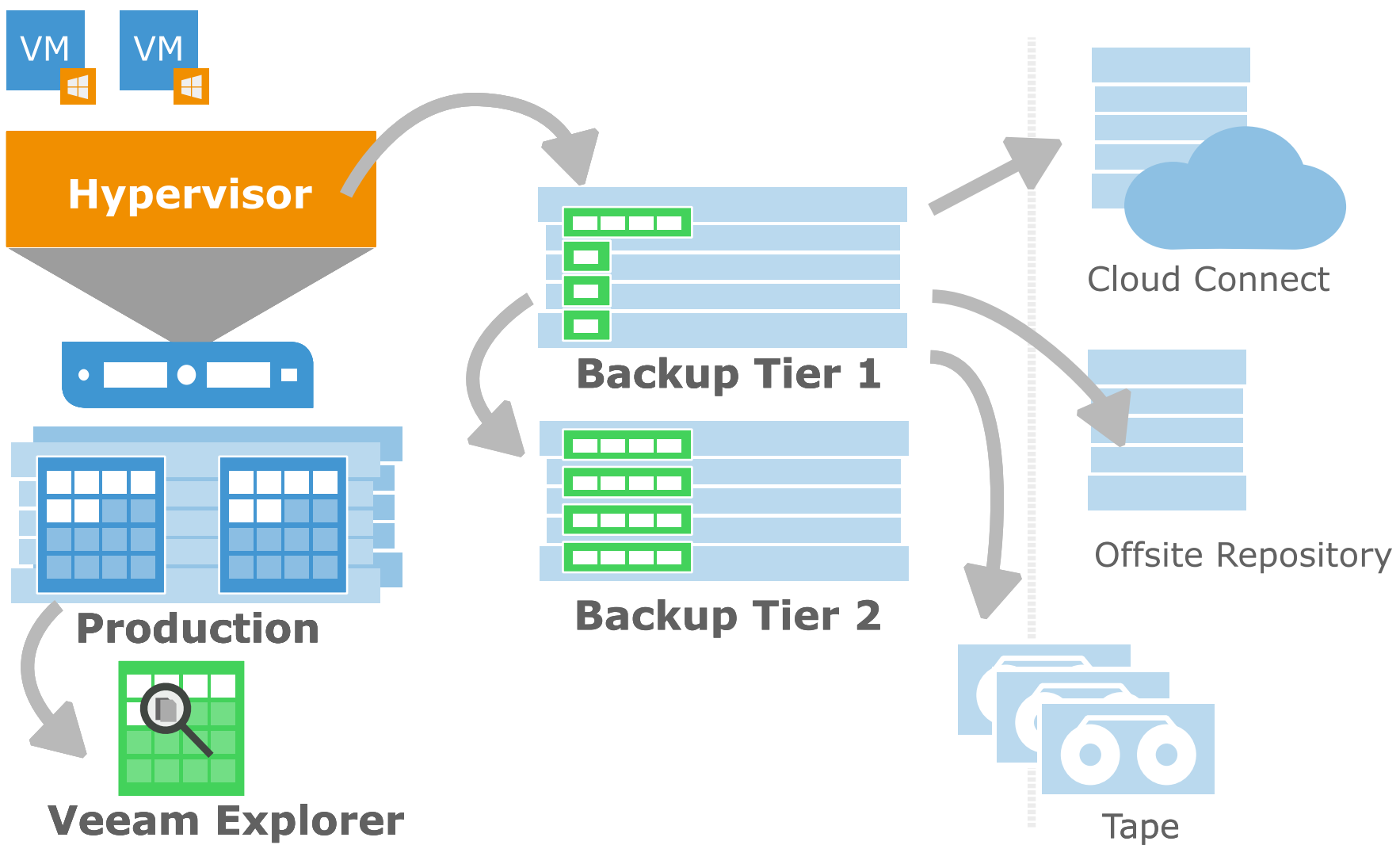


Storing your backups



# Scalability





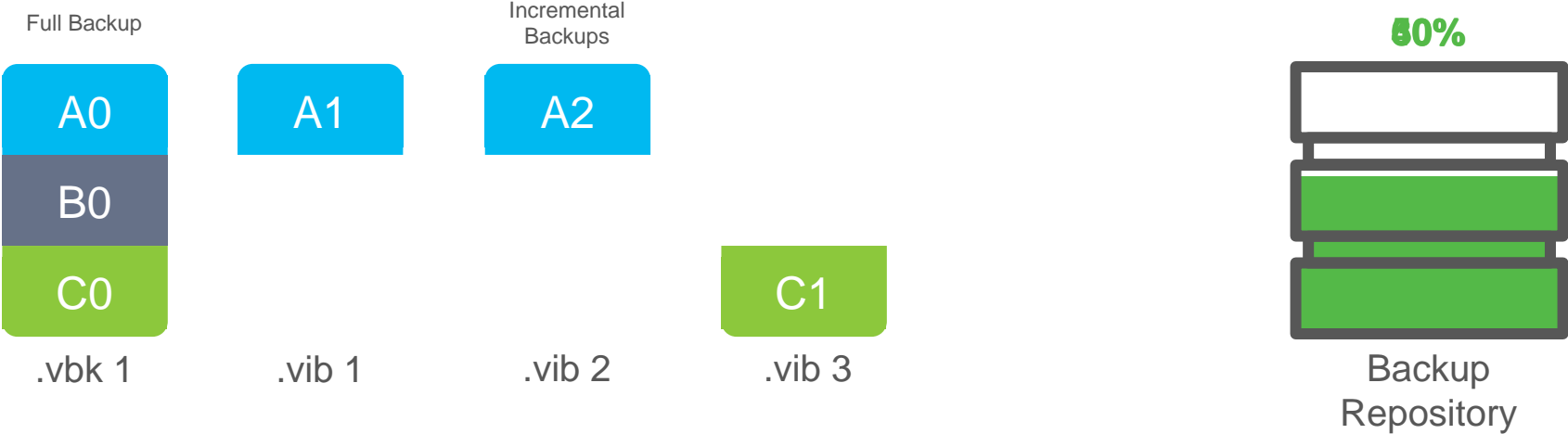
# ReFS v3 Integration (VBR 9.5!)

**NEW Fast cloning technology** enables up to 10x faster creation and transformation of synthetic full backup files, all without physically moving data blocks between files, for even shorter back windows and lower backup storage load

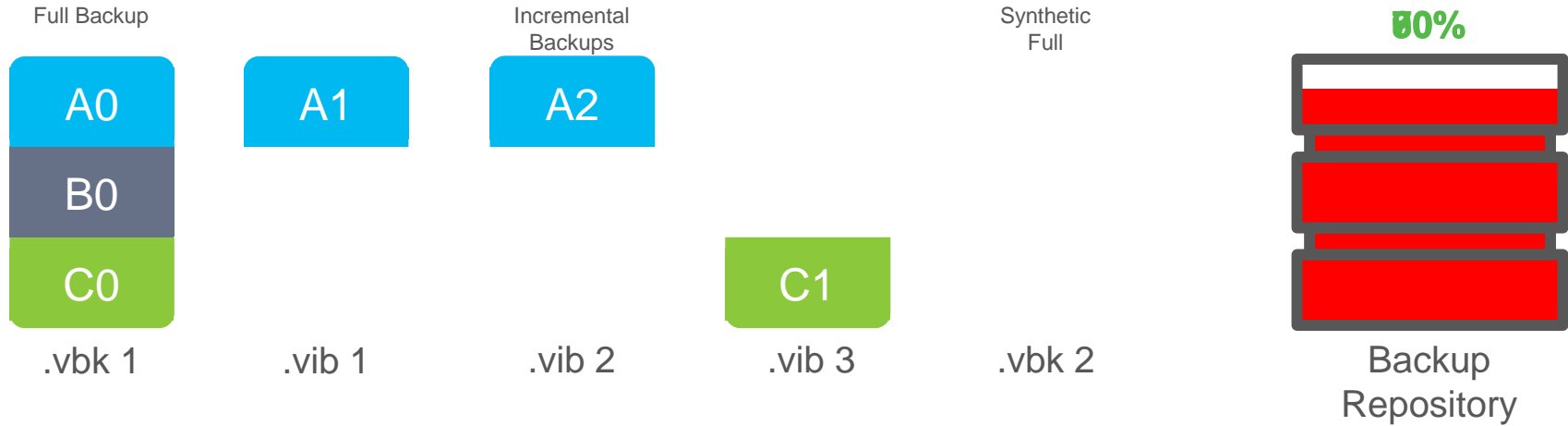
**NEW Spaceless full backup technology** allows multiple full backup files residing on the same ReFS volume to share the same physical data blocks, resulting in reduced backup storage capacity consumption that rivals that of a deduplication appliance

**NEW Data integrity streams** integration leverages ReFS data integrity scanner and proactive error correction from Storage Spaces to protect backup files from silent corruption for more reliable forever-incremental archiving

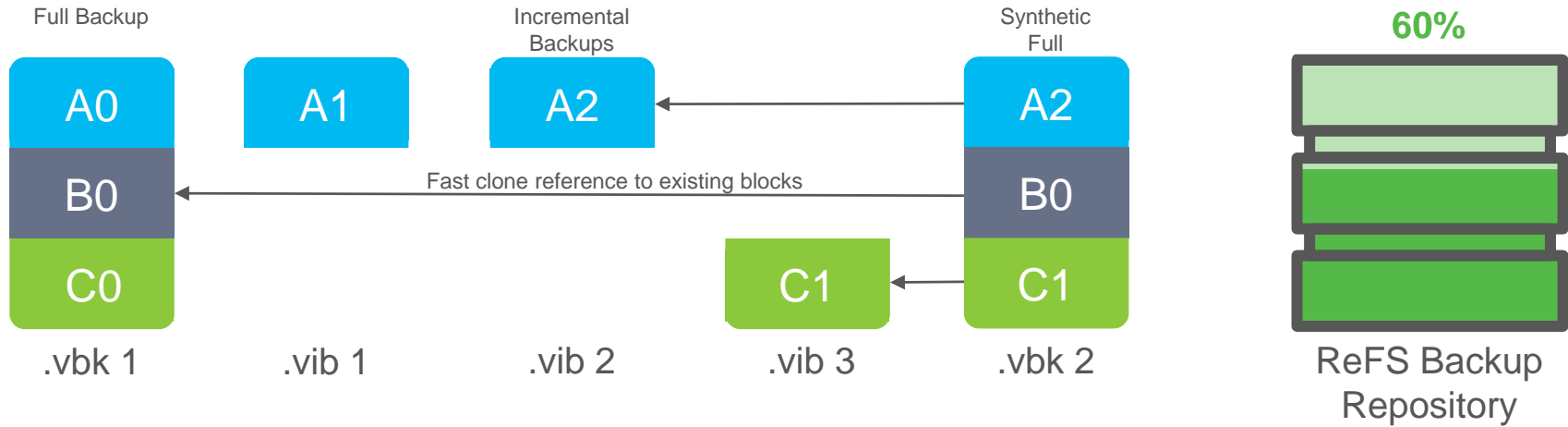
# Incremental Backup



# Synthetic Full Backup (Legacy)

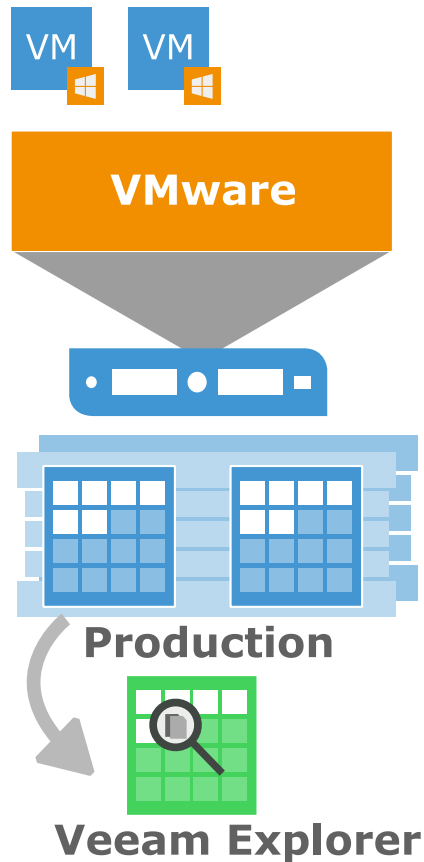
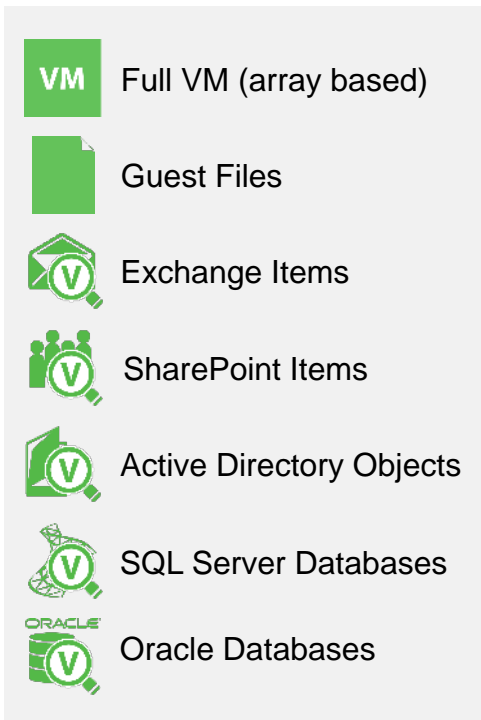


# Synthetic Full Backup (ReFS)

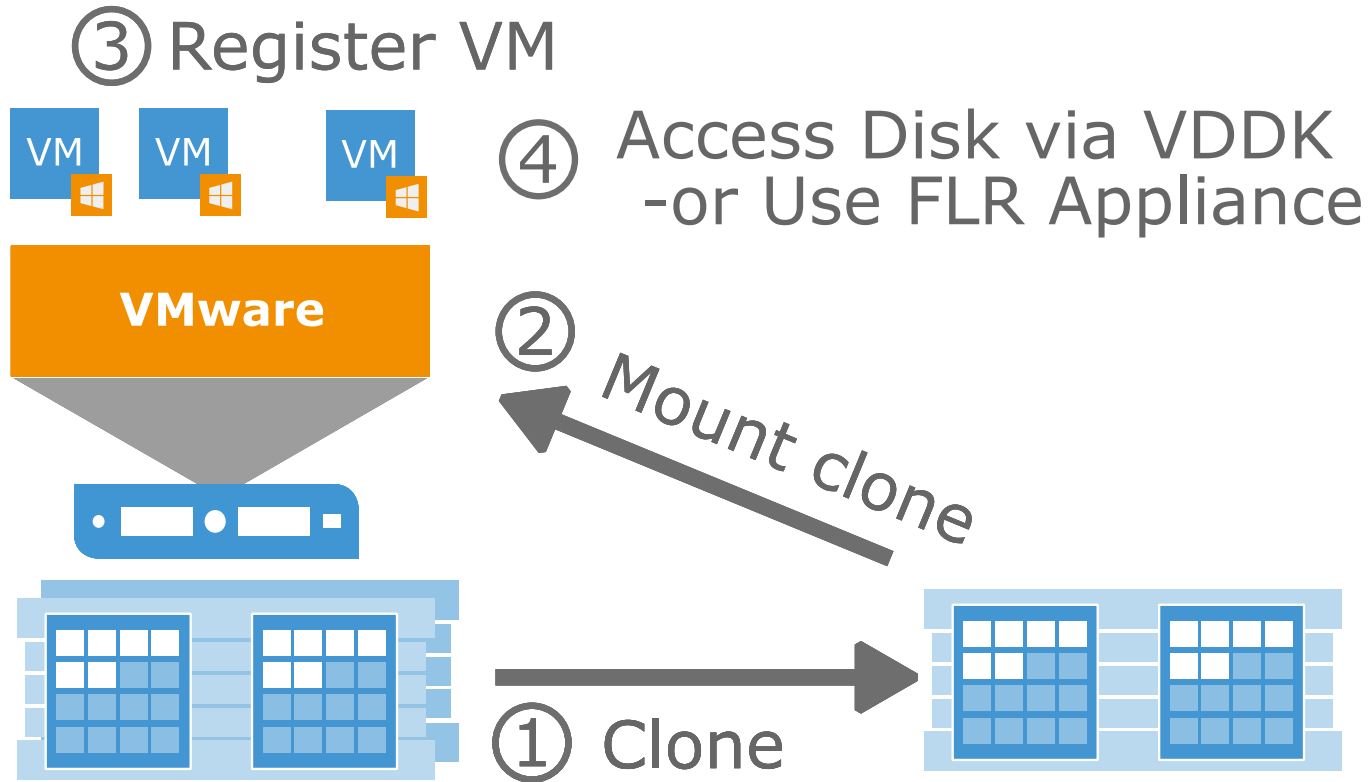


# Veeam Explorer For Storage Snapshots

Multiple recovery options from 1 view!



# How it works





# Tape Support

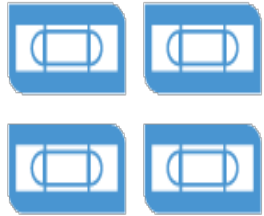
- Supports standalone drives, tape libraries, and virtual tape libraries
- Track specific VMs and restore points on tape – not just backup files – for fully integrated restores
- Backup regular files from Windows and Linux servers to tape for FREE!



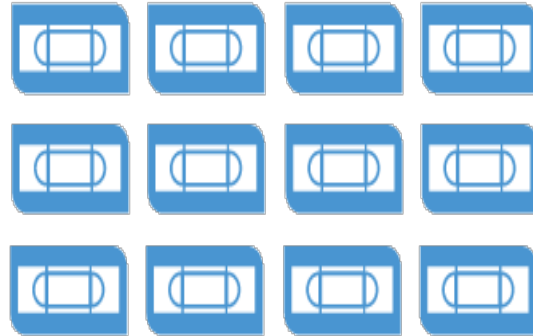
# Tape GFS Support

Reduced tape consumption with long retention policies

Weekly



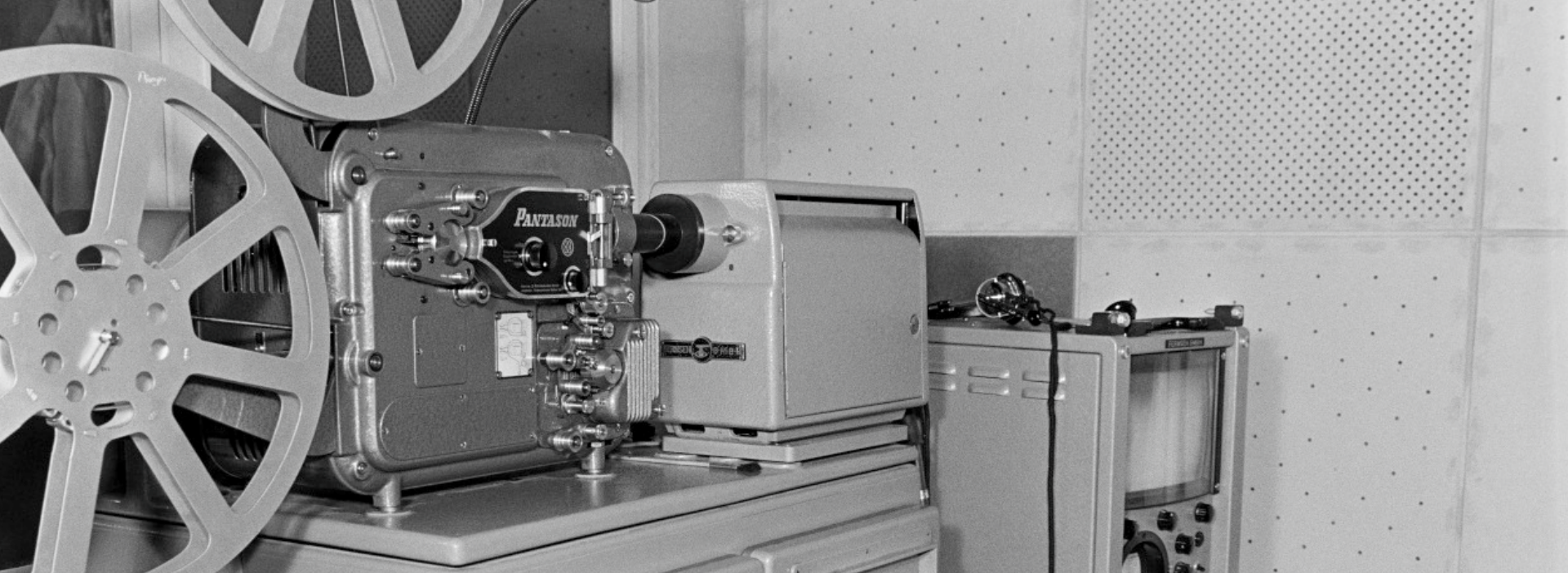
Monthly



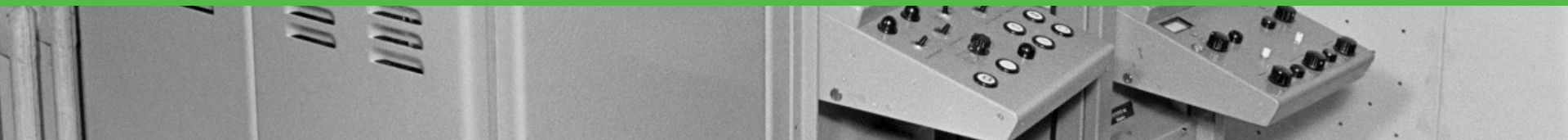
Yearly



4 years =  
19 tapes



But if you are tired of tape



# Deduplication Device

## Integrated device

EMC Data Domain DDBoost

HP StoreOnce Catalyst

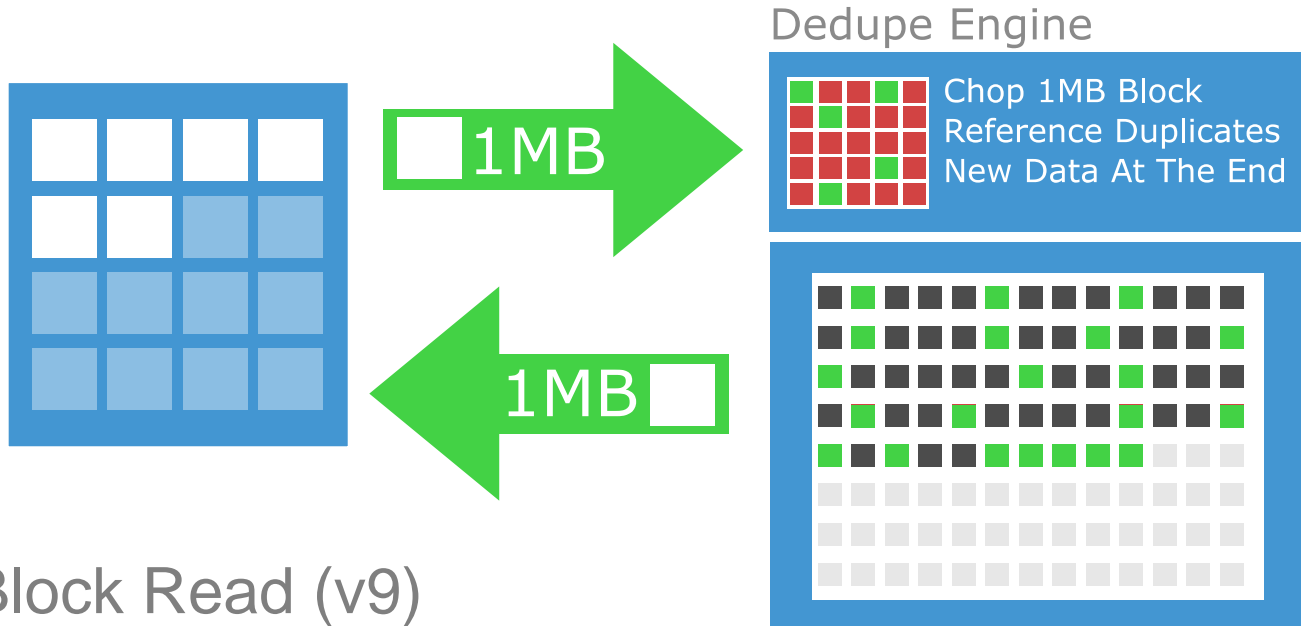
Exagrid

The screenshot shows a 'New Backup Repository' wizard window. The title bar is blue with a red close button. The main content area has a light blue header with the HPE StoreOnce logo and the text 'Specify HPE StoreOnce storage name and credentials.' Below this is a sidebar with a list of steps: Name, Type, Deduplicating Storage, HPE StoreOnce (highlighted), Repository, Mount Server, Review, and Apply. The main area contains the following fields and options:

- Name:** A text box containing 'hpe-storage'.
- Type:** A dropdown menu with 'HPE StoreOnce' selected.
- Deduplicating Storage:** A dropdown menu with 'HPE StoreOnce' selected.
- Repository:** A dropdown menu with 'Repository' selected.
- Mount Server:** A dropdown menu with 'Mount Server' selected.
- Review:** A dropdown menu with 'Review' selected.
- Apply:** A dropdown menu with 'Apply' selected.
- Use Fibre Channel (FC) connectivity:** An unchecked checkbox with the text 'Requires that gateway server is connected into SAN fabric.'
- Credentials:** A dropdown menu with an 'Add...' button and a link to 'Manage accounts'.
- Gateway server:** A section with two radio buttons: 'Automatic selection' (unchecked) and 'The following server:' (checked). Below this is a dropdown menu with 'CON (Backup server)' selected.
- Gateway server and StoreOnce are connected over WAN:** A checked checkbox with the text 'Enables network traffic compression and checksumming by Catalyst. Using this functionality may reduce backup performance over fast links.'

At the bottom of the window are four buttons: '< Previous', 'Next >', 'Finish', and 'Cancel'.

# Why not directly to dedupe



Partial Block Read (v9)  
Parallel Disk Restore (v9.5)

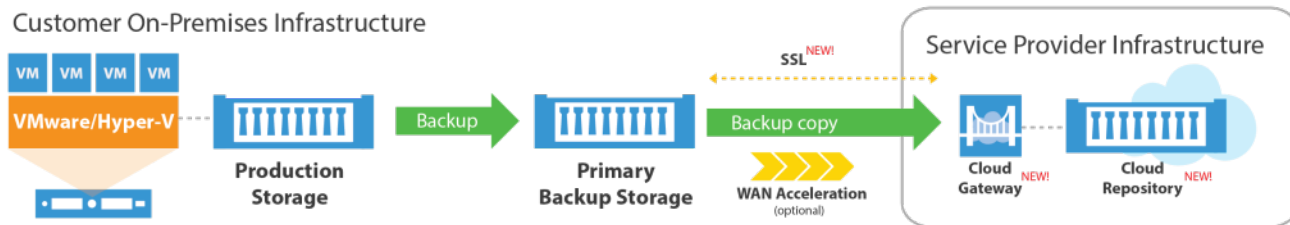
# Cloud Connect

Fast and secure backup to and restore from the cloud

This feature has two audiences:

**For Veeam customers:** The easy, efficient way to get backups offsite to a service provider

**For service providers:** An easy way to host offsite backups for Veeam customers



Thank you

