

veeam

Veeam 智慧校園資料守護第一首選

讓備份變聰明 - 從簡單到靈活



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台灣區資深技術顧問
Veeam Software

營運 維持不中斷 變得越來越困難

基礎架構
複雜性有增無減

需要將工作負載在
雲端平台間(地端)移動

網路安全威脅
與日俱增

耗時繁複的
手動操作程序



資料保護解決方案的領導者

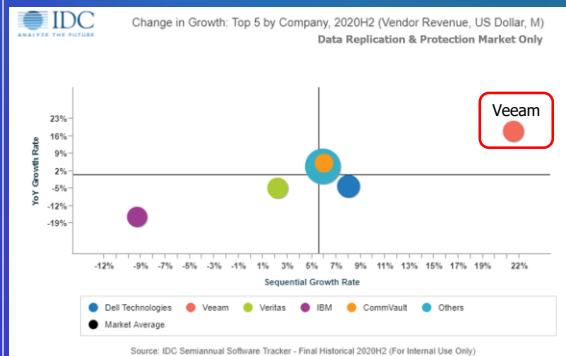
Veeam連續六年獲評為魔力象限領導者

Gartner: 2023 Magic Quadrant for Enterprise Backup and Recovery Software Solutions

Figure 1: Magic Quadrant for Enterprise Backup and Recovery Software Solutions

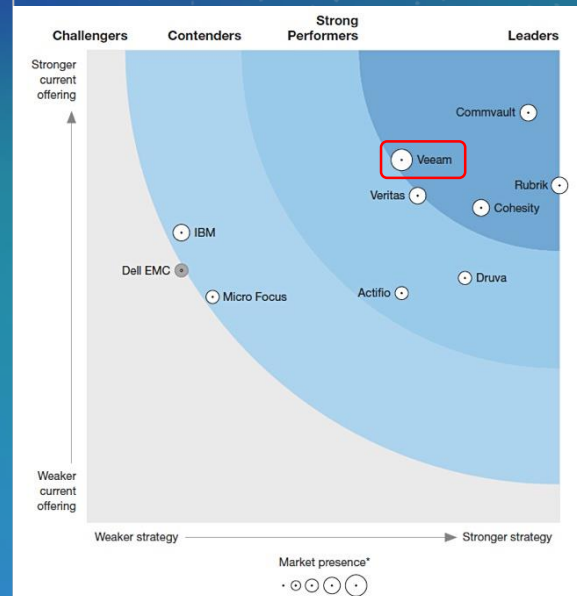


IDC: 2H20 Data Replication and Protection Growth Top 5 Companies by Market Share



Source: IDC, Semi-Annual Software Tracker, 2020H2
Note: Worldwide Data, circle size represents market share

Forrester Wave: Data Resiliency Solutions Q3 2019



全方位雲端資料管理單一平台

雲端 Cloud.

無論是雲端供應商 AWS、Azure 和 GCP 或是 Kubernetes 皆提供雲原生備份和恢復。

軟體即服務 SaaS.

保護您的 Microsoft Office 365 資料，包括 OneDrive for Business、Teams 還有 Salesforce，使企業組織可以降低資料遺失的風險。

應用程式 Apps.

加快應用程式、資料庫和容器的恢復。

虛擬 Virtual.

Veeam 的虛擬化功能廣泛地保護了 VMware vSphere、Microsoft Hyper-V 和 Nutanix AHV 與 Red Hat Virtualization 等平台。

實體 Physical.

保護您的非結構化 NAS 資料以及實體機和終端設備，包括 Windows、Linux、MacOS、AIX 和 Solaris。



資料活化再利用.

讓備份資料價值提升，可以應用在推動業務分析、決策還有系統測試/軟體開發。

協同作業.

使災難恢復計劃自動化，包括建置流程自動化、文件產出自動化和演練自動化。

監控與分析.

從資訊基礎架構中取得統一的人工智能驅動資料管理。

備份與備援.

為您的雲端、SaaS、虛擬、Kubernetes 和實體機等工作負載做集中化資料保護。

儲存與管理 APIs.

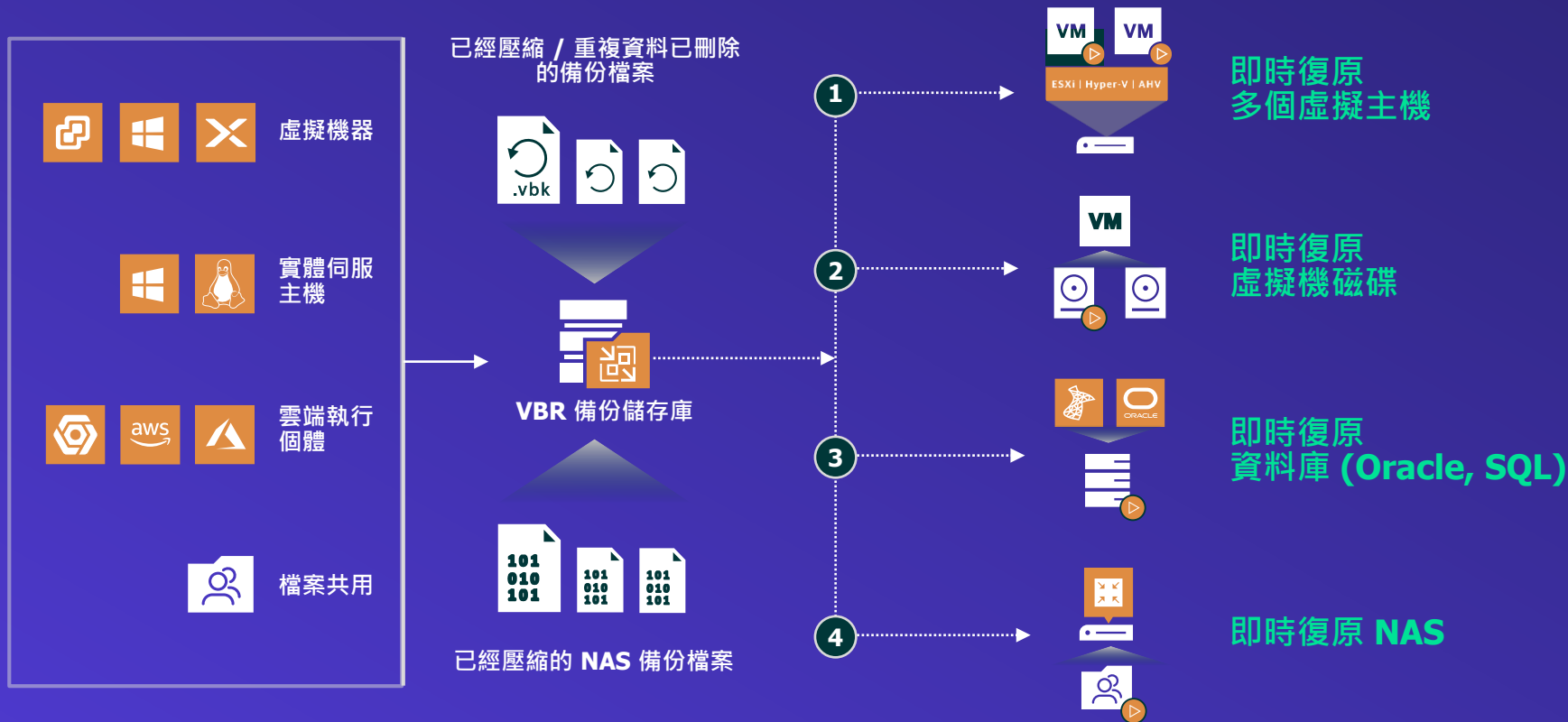
與眾多的解決方案和合作夥伴生態系統相互整合。

選擇最能滿足您獨特需求的服務平台。

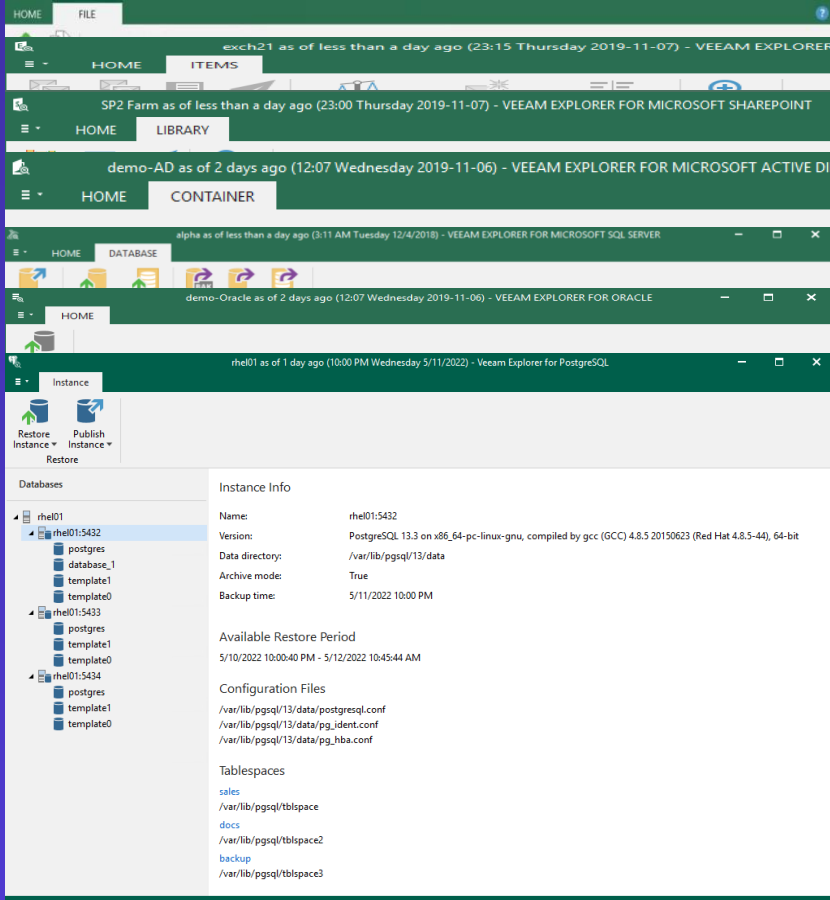
彈性快速取得資料還原提高系統可用性



可以**快速**回復誤刪的系統與資料 (即時還原)



Veeam 可以**快速**恢復需要的資料



File and Folder:

回復單一檔案或資料夾到相同或不同的地方, 包含權限

Exchange:

回復任何 Exchange 物件到相同或不同的地方, 匯出, 或 Office 365

SharePoint:

瀏覽要回復的物件, 包括已刪除的檔案

Active Directory:

瀏覽, 比較並回復 Active Directory 物件到相同或不同的地方, 包括原本的密碼

SQL Server:

瀏覽並透過 transaction log 的還原, 回復 SQL 資料庫到指定的時間點

Oracle :

瀏覽並透過 transaction log 的備份及還原能力, 針對任何所支援的作業系統及 hypervisor 上的 Oracle 資料庫, 回復影像層級的備份

PostgreSQL :

瀏覽並透過 Veeam GUI直接操作 PostgreSQL 上的資料庫和交易日誌還原

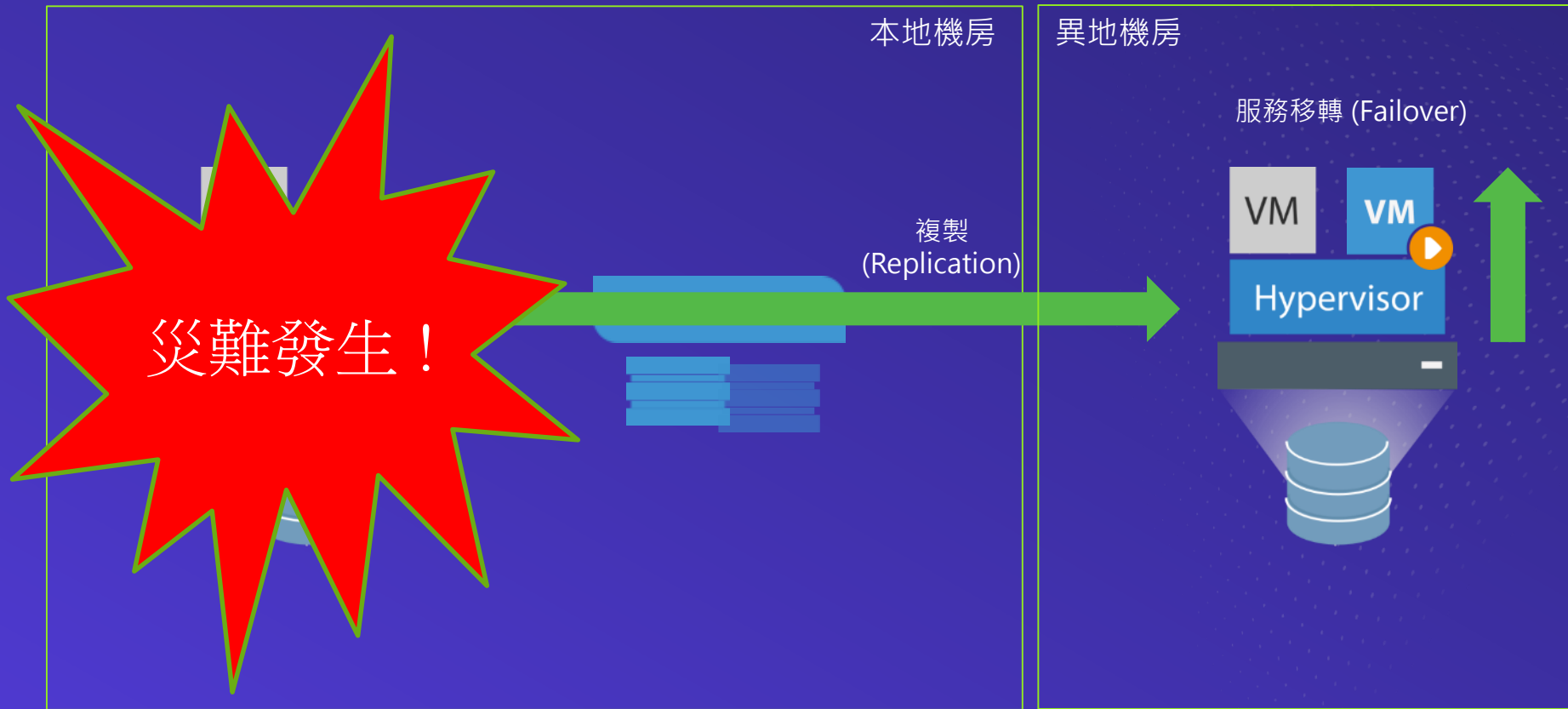
滿足企業異地備援需求



Veeam 提供異地備份降低本地資料遺失風險



Veeam 也提供異地備援提供應用程式高可用性



活用備份檔案



Your personal files are encrypted by CTB-Locker.

Your documents, photos, databases and other important files have been encrypted with strongest encryption and unique key, generated for this computer.

Private decryption key is stored on a secret Internet server and nobody can decrypt your files until you pay and obtain the private key.

You only have 96 hours to submit the payment. If you do not send money within provided time, all your files will be permanently crypted and no one will be able to recover them.

Press 'View' to view the list of files that have been encrypted.

Press 'Next' for the next page.

WARNING! DO NOT TRY TO GET RID OF THE PROGRAM YOURSELF. ANY ACTION TAKEN WILL RESULT IN DECRYPTION KEY BEING DESTROYED. YOU WILL LOSE YOUR FILES FOREVER. ONLY WAY TO KEEP YOUR FILES IS TO FOLLOW THE INSTRUCTION.

View 95:59:29 Next >>



VEEAM



三種不同的
資料副本



兩種不同媒體



一份異地儲存副本



副本類型：
離線氣隙
或不可修改備份



測試自動備份並驗證
復原能力後未發現任
何錯誤

備份資料複寫 (Backup Copy)

資料遭遇意外(惡意攻擊)而無法使用時
確保其可恢復性



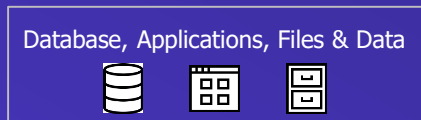
擁有三份備份檔



存儲在兩種不同的
媒體類型上



保留一份在
異地/離線



Off-line media

Tape Device

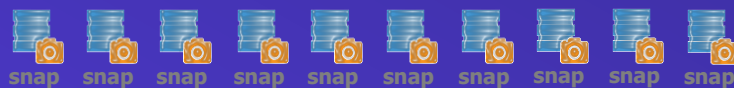
Backup Target

Cloud Tier

Veeam Leveraging Modern Storage Snapshots

8 PM 8 AM 9 AM 10 AM 11 AM 12 PM 1 PM 2 PM 3 PM 4 PM 5 PM 8 PM

Nightly Backup



Nightly Backup

storage snapshots

勒索病毒防禦 – Veeam 來防止！

為什麼？

- 不受到惡意程式攻擊的儲存庫
- 如果正確設定：內部人員防護

什麼

- 拒絕備份資料的刪除

如何

- 採用 Linux 內的 “immutable flag”

The screenshot displays a Veeam Backup & Replication console window titled "Removing backup". The job details are as follows:

Name:	Backup Deletion Job	Status:	Failed
Action type:	Backup Deletion	Start time:	24.06.2020 15:31:04
Initiated by:	LAB\administrator	End time:	24.06.2020 15:31:18

The Log section shows the following entries:

Message	Duration
Starting backup deletion job	
Preparing backups for deletion	
Building backup deletion tasks	0:00:05
Processed 1 of 1 backups (100% done)	0:00:04
[BJ-immutable] Failed to lock backup files Error: [TBD] Operation is not permitted...	0:00:02
Linux-XFS: 0 deleted, 0 skipped, 0 warned, 1 failed	
Job finished with error at 24.06.2020 15:31:18	

Below the log, a terminal window shows the command `lsattr -a` being executed on the directory `/mnt/nfs/backups/BJ-immutable`. The output shows the immutable flag (`-i`) is set on the backup files:

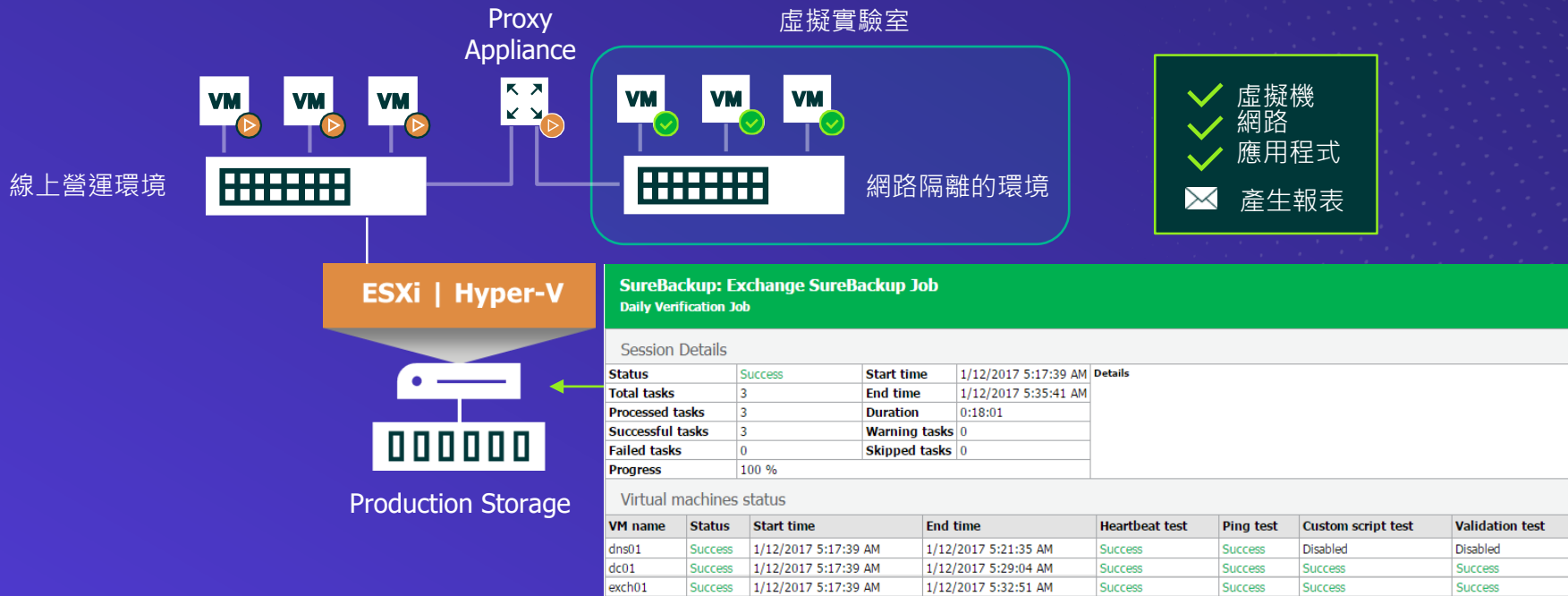
```
root@multistorage: /mnt/nfs/backups/BJ-immutable# lsattr -a
----- ./.
----- ./..
-i----- ./HK-Nano.vm-5636D2020-06-18T142332_7FC7.vbk
-i----- ./HK-Nano.vm-5636D2020-06-24T145659_5C3E.vib
-i----- ./veeam.0.lock
----- ./BJ-immutable.vbm
root@multistorage: /mnt/nfs/backups/BJ-immutable#
```

自動驗證備份檔案



SureBackup/SureReplica (全自動VM備份驗證)

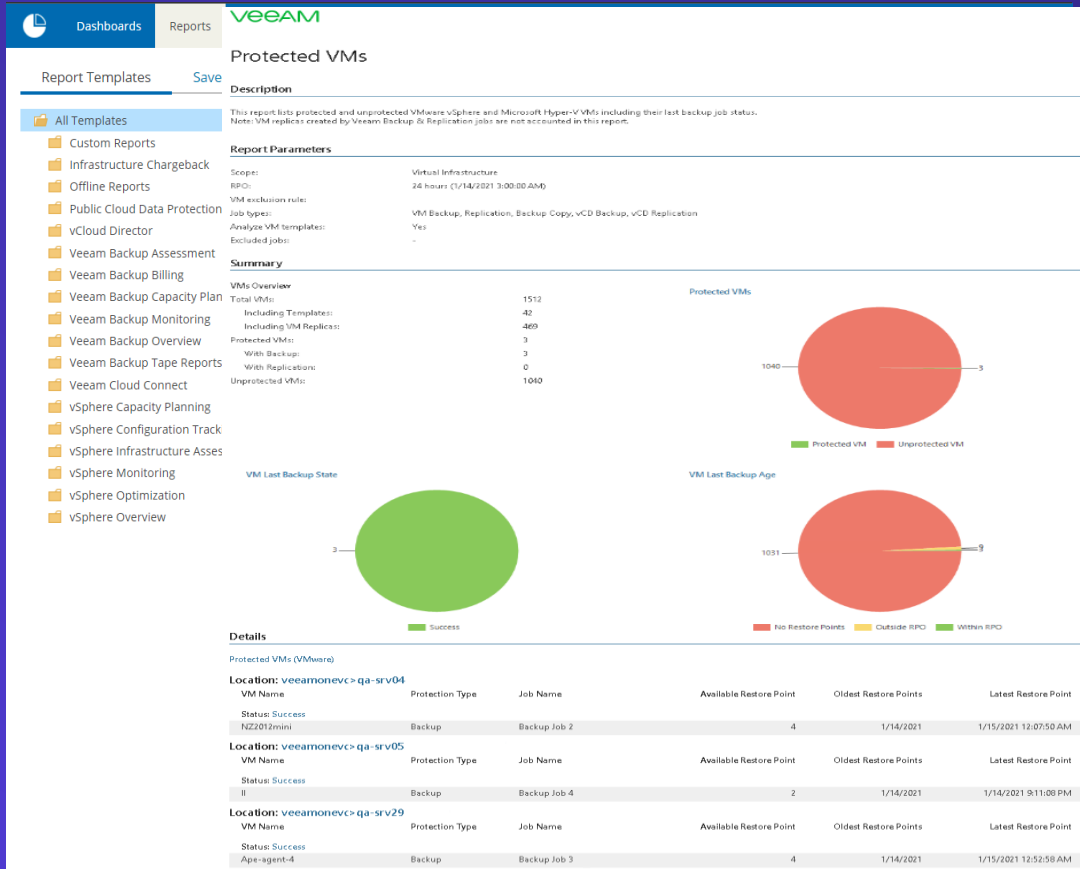
資料的自動驗證 & 進一步應用這份資料滿足企業所需



資料中心資源運作如何立即掌握



Veeam 監控和分析



智慧分析，識別與解決資料中心常見問題



了解資源使用狀態，以預測使用率和需求



透過告警來對抗惡意軟體，幫助識別環境中發生的異常情況



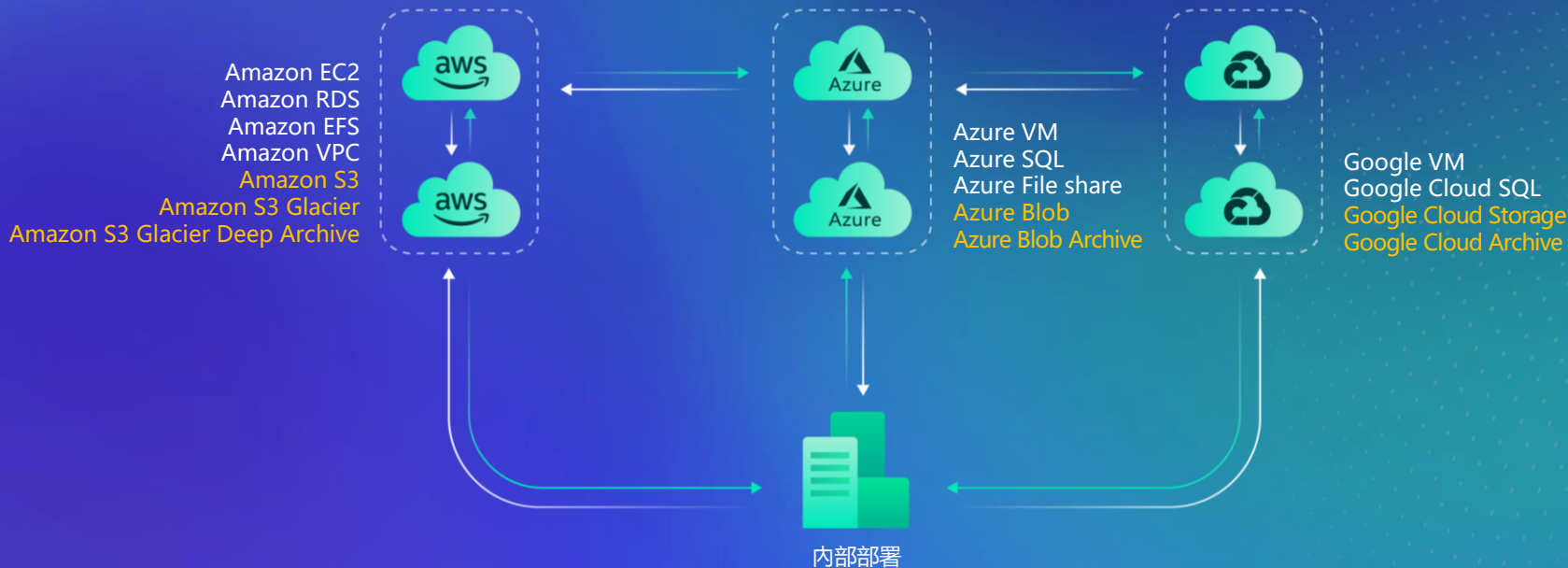
對備份 SLA 合規性監控以及透過產生報告讓您即時瞭解數據保護狀況



Veeam for
Cloud solution

擁有 資料主權，不限 任何雲端

雲端公有雲平台



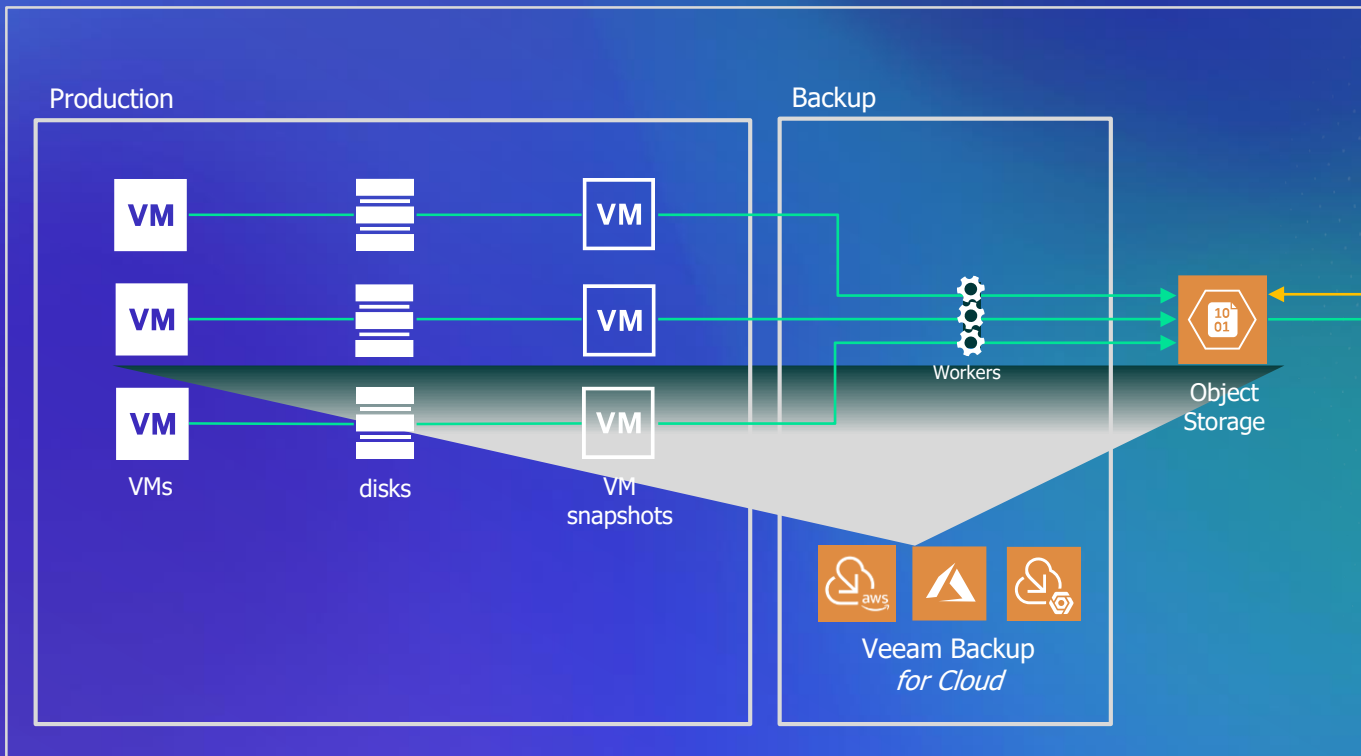
- 備份
- 復原

vmware® Hyper-V NUTANIX.

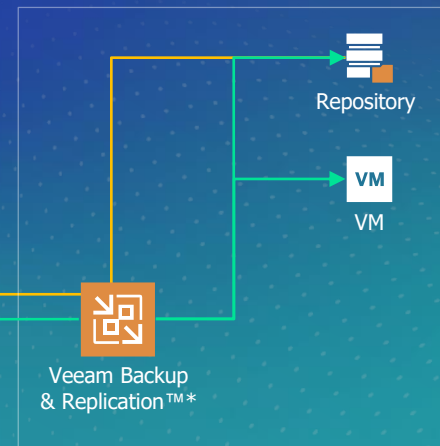


雲端整合 (三大公有雲)

Microsoft Azure Google Cloud AWS Cloud

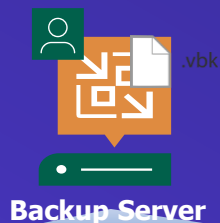


Data Center

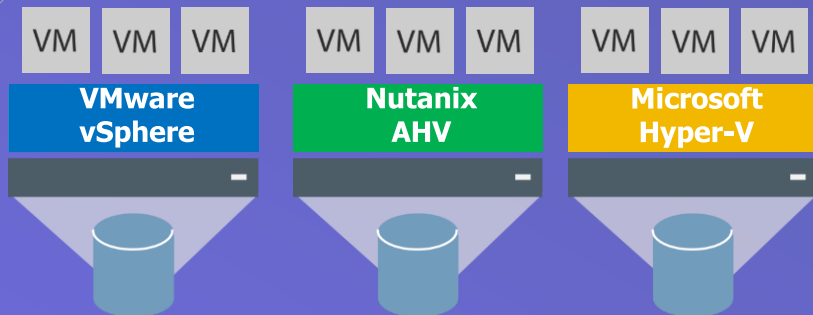


將備份檔案搬移到雲上

- 可透過政策設定將較長期的備份檔案，搬移到雲端儲存空間，
儲存成本較低
- 可選擇將已完成的備份檔，即時同步到雲端，利用雲端儲存空間達到**3-2-1備份策略**目標

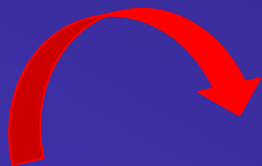


- 即時同步 / 長久保存
- 直接備份至 **Object storage**



Cloud資料還原至地端 (完整還原/精細還原)

- 想將上雲的服務，搬回地端



Backup Server

- 完整虛擬機器 (磁碟陣列為主)
- Guest 檔案 (17 種檔案系統)
- Exchange 項目
- SharePoint 項目
- Active Directory 物件
- SQL Server 資料庫
- Oracle 資料庫

精細還原



Object storage

VM VM VM

VMware
vSphere

VM VM VM

Nutanix
AHV

VM VM VM











Microsoft
Hyper-V



實體機
Windows
Linux



On premise

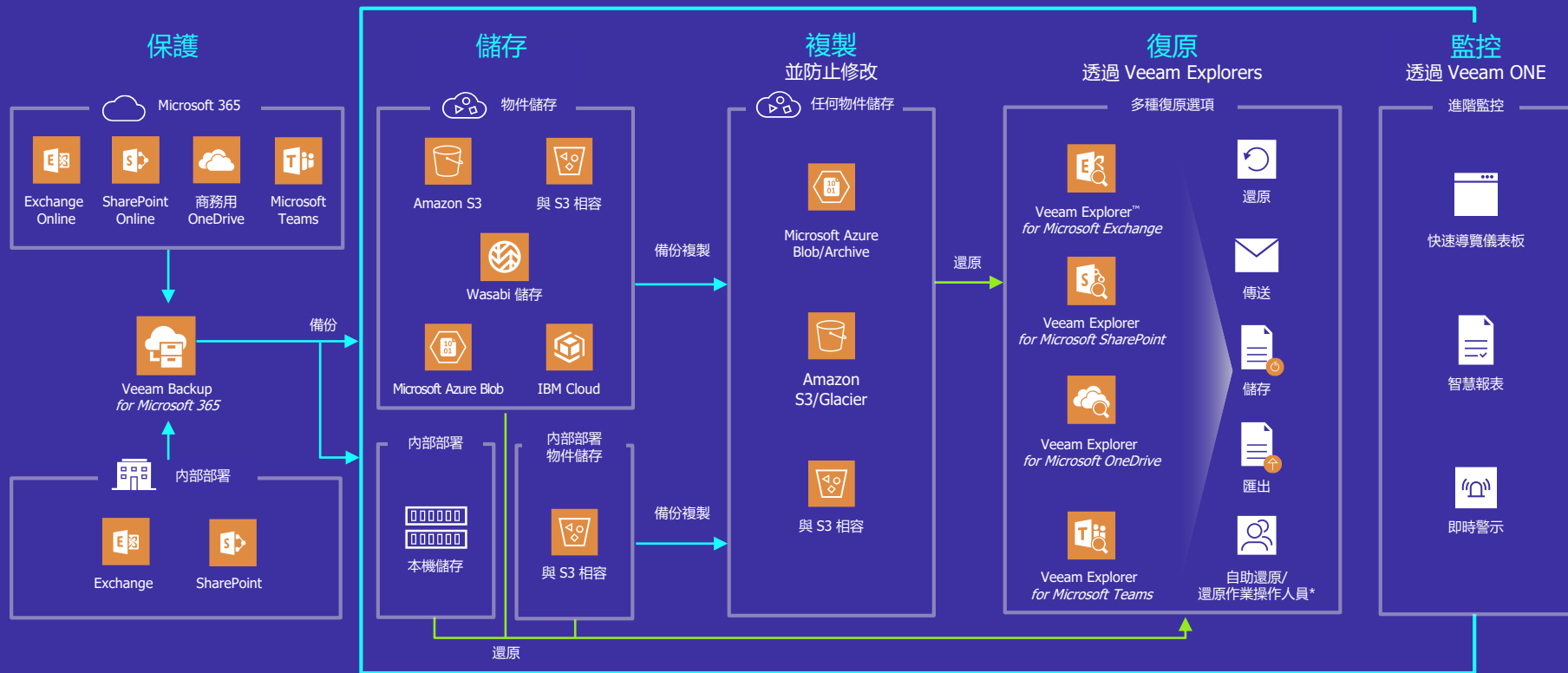
From	To	vSphere	Hyper-V	Nutanix AHV	Red Hat KVM	Azure VM	AWS EC2	Google Cloud VM
 vSphere		✓	✓	✓		✓	✓	✓
 Hyper-V		✓	✓	✓		✓	✓	✓
 Nutanix AHV		✓	✓	✓		✓	✓	✓
 Red Hat KVM		✓	✓	✓	✓	✓	✓	✓
 Windows Agent		✓	✓	✓		✓	✓	✓
 Linux Agent		✓	✓	✓		✓	✓	✓
 Azure VM		✓	✓	✓		✓	✓	✓
 AWS EC2		✓	✓	✓		✓	✓	✓
 GCP VM		✓	✓	✓		✓	✓	✓
 Other Clouds (agent based)		✓	✓	✓		✓	✓	✓

 Supported
  Supported via Backup Copy

Veeam Backup *for Microsoft 365*



Veeam Backup for Microsoft 365



*自助還原入口網站僅支援使用現代化應用程式驗證的 Microsoft 365 組織。



Exchange Online and Exchange On-Premises

Restore Exchange item to Exchange Online mailbox or calendar

Restore Exchange item to on-premises Exchange mailbox or calendar

Restore Exchange items to another location

Email Exchange item as an attachment

Entire folder/mailbox compare and restore of missing/changed items

Export folder, item or mailbox as a .PST

Save Exchange items as a .MSG

Self-service restores for Exchange items

Service provider restore of an Exchange item for a tenant



OneDrive for Business

Restore users, folders or files (including OneNote notes) to OneDrive for Business

Email as an attachment

Save files or folders

Save multiple files or folders as a ZIP

Restore any file to a prior version

Restore and overwrite users, folders or files

Restore but keep original users, folders or files

Restore with extended attributes and custom access controls

Restore without extended attributes and custom access controls

Self-service restores for OneDrive for Business files

Service provider restore of a OneDrive file, folder or user for a tenant

Self-service restores for OneDrive for Business folders



SharePoint Online and SharePoint On-Premises

Restore online site, library, document to SharePoint Online

Restore on-premises site, library, document to On-Premises SharePoint

Restore an object to a prior version

Restore SharePoint items to another location

Email SharePoint objects as an attachment

Save SharePoint object as a file

Save multiple SharePoint objects as a ZIP

Self-service restores for SharePoint objects

Service provider restore of a SharePoint object for a tenant

Self-service restores for SharePoint Online folders

50

Recovery options in Veeam Backup for Microsoft 365



Microsoft Teams

Restore a Team with its membership and settings

Restore missing/changed Team membership

Restore a tab to original location

Restore posts back to the original Team

Restore changed or missing items and files

Restore any file to its prior version

Restore channel to original location

Restore file to original location

Self-service restores of an entire team

Export or restore selected posts

Export or restore posts within the specified time period

Exporting post as HTML

Save multiple or individual files

Save multiple files as ZIP

Save or send posts as MSG files

Send file as attachment

Service provider restore of Teams items for their tenant

Self-service export of team posts to an HTML file

Self-service restores of a channel, tab or specific item

Veeam for M365 - GUI 精細還原介面

The screenshot displays the Veeam Explorer for Microsoft Teams interface. The main window title is "All organizations as of less than a day ago (2:42 PM Friday 11/6/2020) - Veeam Explorer for Microsoft Teams". The interface includes a top navigation bar with "Home" and "Files" tabs, and a toolbar with "Restore File", "Save File", "Send File", "Advanced Find", and "History" options. The left sidebar shows a tree view of "Organizations" with "AperatureLabs.onmicrosoft.com (11/6/2020 2:42:26 PM)" selected. The main area shows a "Restore List (5)" with a search bar and status filters. A context menu is open over the "Restore Exchange Items" option, which is highlighted. The table below lists the items to be restored.

	Type	Location	Sent	Received	Restore Status
<input checked="" type="checkbox"/>	OneDrive Do...	abc_user/folder/folder2	-	-	Never started
<input checked="" type="checkbox"/>	2020_09_11_04_05_28.msg	abc_user/folder/folder2	-	-	Never started
<input checked="" type="checkbox"/>	AudioPreview.png	abc_user/ContentStyle ...	-	-	Never started
<input checked="" type="checkbox"/>	Azure AD Identity Protection ...	abc_user/inbox	February 18, 2022 4:34 AM	February 18, 2022 4:34 AM	Never started
<input checked="" type="checkbox"/>	Major update from Message ...	abc_user/inbox	February 23, 2022 8:29 AM	February 23, 2022 8:29 AM	Never started

報表

VEEAM

Job History (Veeam Backup for Microsoft 365)

Description

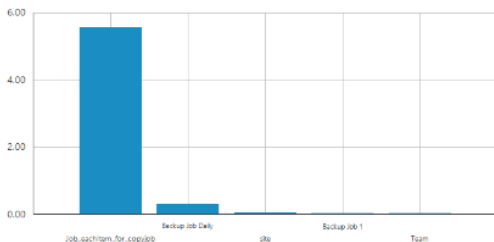
This report provides historical information for all Veeam Backup for Microsoft 365 jobs.

Report Parameters

Infrastructure objects: Veeam Backup for Microsoft 365
Organizations: All organizations
Job types: All job types
Jobs: All jobs
Job statuses: All statuses
Reporting period: Past month (12/1/2022 - 12/31/2022)

Summary

Top 5 Jobs by Average Duration (Hours)



Successful Backup Ratio by Day (%)



Details

Job Type: Backup

Veeam Backup for Microsoft 365 Server: At_vbm.tech.local

Top 5 Jobs Organization: alpha.onmicrosoft.com

Status	# of Processed Objects	Start Time	Duration	Processing Rate (MB/sec)	Transferred Data (GB)
Job Name: Backup Job 1					
Success	1 of 1	1/2/2023 1:59:57 AM	00:00:28	0.46	0.00
Success	1 of 1	1/3/2023 1:59:58 AM	00:00:28	0.64	0.00
Success	1 of 1	1/4/2023 1:59:57 AM	00:00:13	0.70	0.00
Success	1 of 1	1/5/2023 1:59:57 AM	00:00:28	0.46	0.00
Job Name: site					
Success	1 of 1	1/2/2023 1:59:57 AM	00:00:12	0.00	0.00
Success	1 of 1	1/3/2023 1:59:57 AM	00:00:11	0.00	0.00
Success	1 of 1	1/4/2023 1:59:57 AM	00:00:13	0.00	0.00
Success	1 of 1	1/5/2023 1:59:57 AM	00:00:28	0.00	0.00
Job Name: Team					
Success	1 of 1	1/2/2023 3:00:00 AM	00:00:15	0.00	0.00
Success	1 of 1	1/3/2023 3:00:00 AM	00:00:14	0.00	0.00
Success	1 of 1	1/4/2023 3:00:00 AM	00:00:15	0.00	0.00
Success	1 of 1	1/5/2023 3:00:00 AM	00:00:15	0.00	0.00

veeam

最佳校園資料保護方案

現代化 資料保護

即時掛載最快速

橫向擴充高可用

支援混合雲架構

很可靠

迅速化解任何危機

Immutable Repository
防止勒索軟體加密

Instant Recovery
即時還原(VM、DB、AD)

Sure Backup
每日備份自動驗證

超靈活

完善備份備援服務

Free your hardware
依服務等級搭配彈性架構

Recovery to anywhere
多種主流平台支援

Store any Device
支援多樣性儲存裝置

最簡單

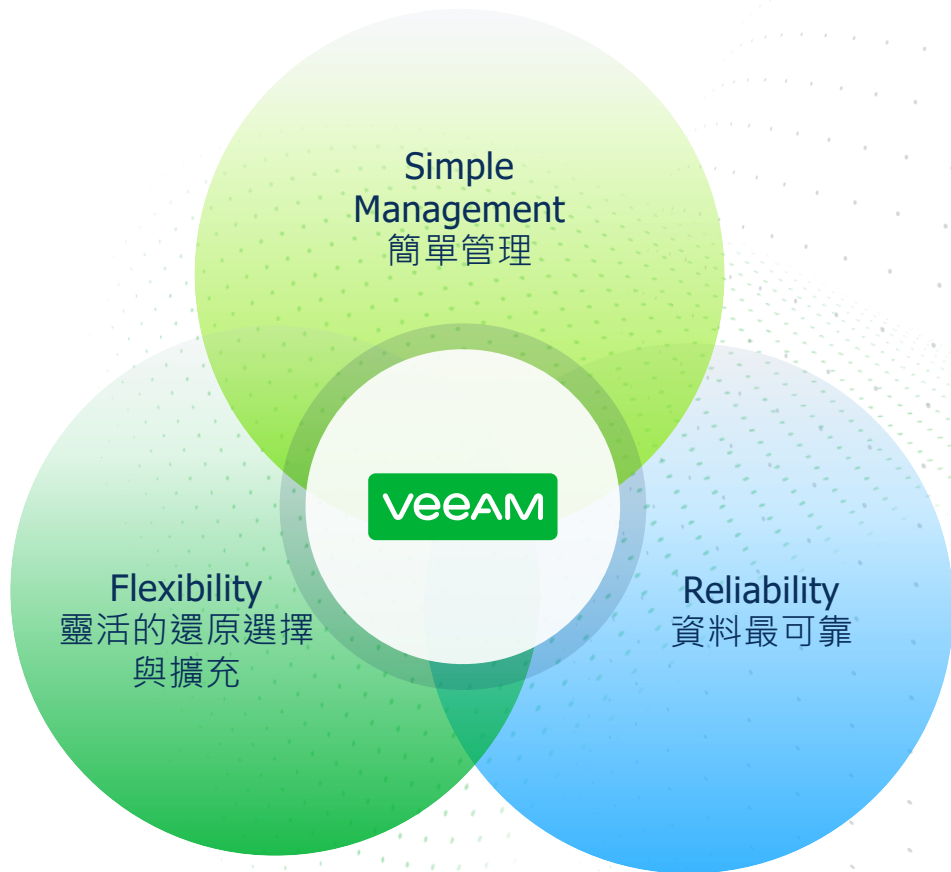
大幅降低擁有成本

Protect everything
單一軟體保護全面

VUL License
備份備援一次到位
/Veeam for M365

Easy to Use
簡單直觀操作介面

Veeam 提供



Thank you!

veeam