



Veeam Backup Replication 軟體設定SOP

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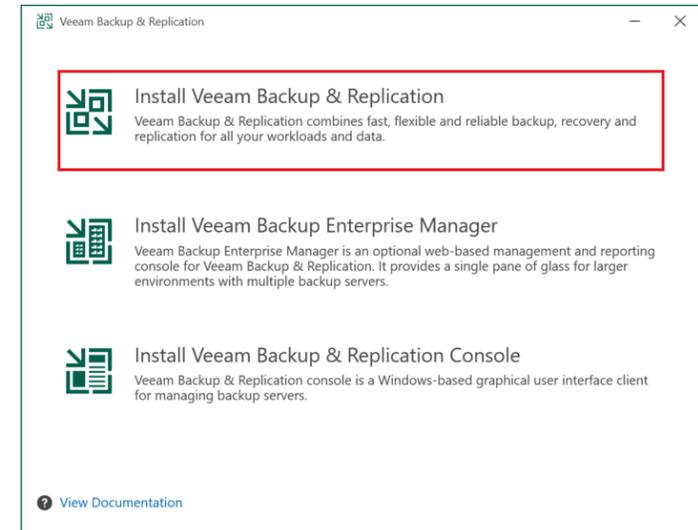
Veeam Backup軟體安裝

執行Veeam Backup & Replication 12.1進行安裝

執行Veeam Backup & Replication 安裝程式

點擊Install進行安裝

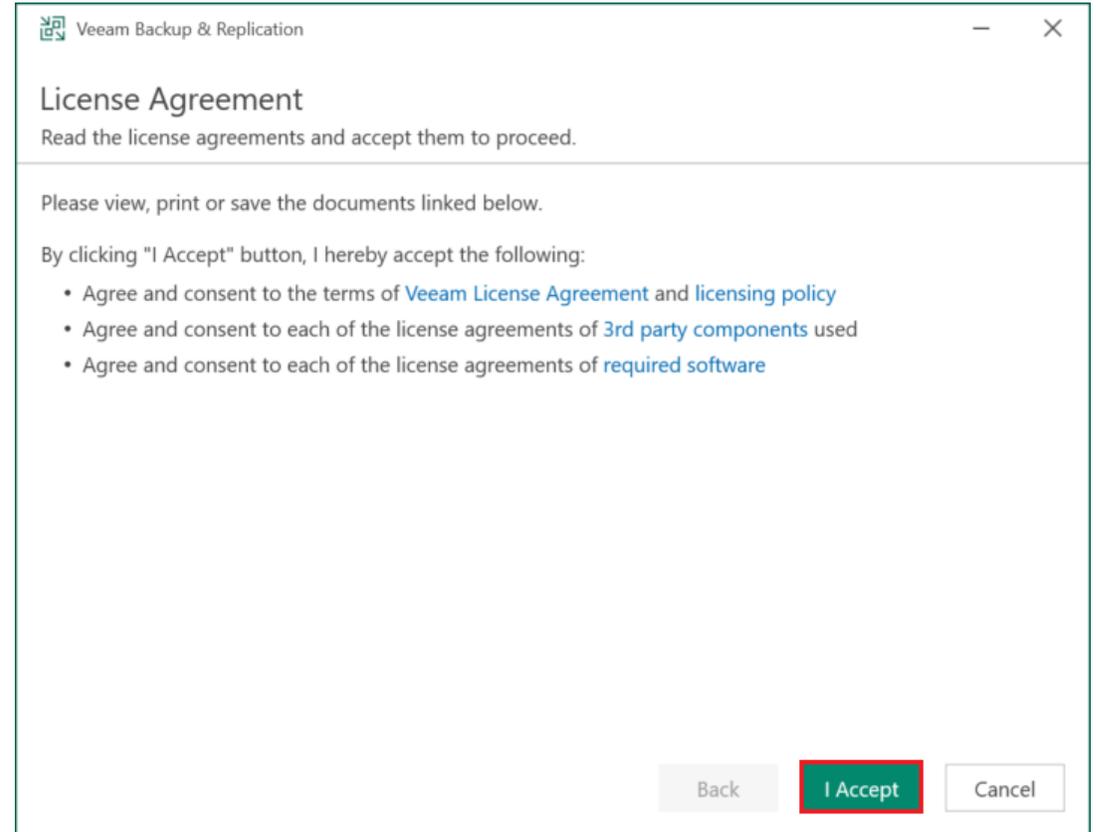
若無安裝檔，可到[Veeam官網](#)下載



使用者軟體授權同意條款

授權條款內容確定無誤後

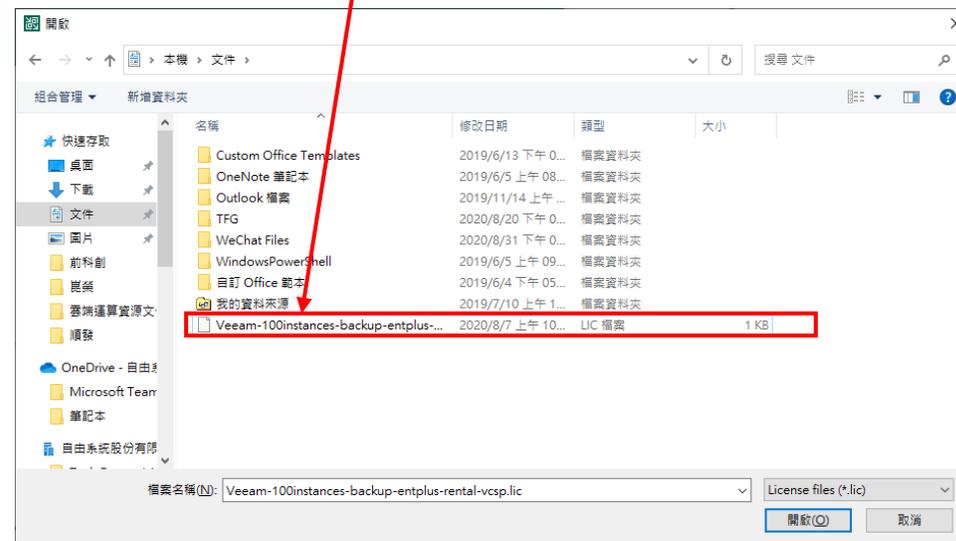
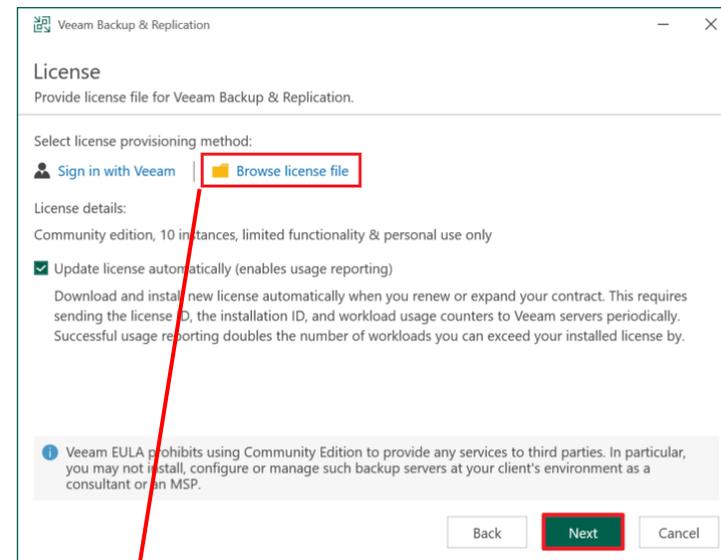
點選同意進行下一步動作



授權檔案設定

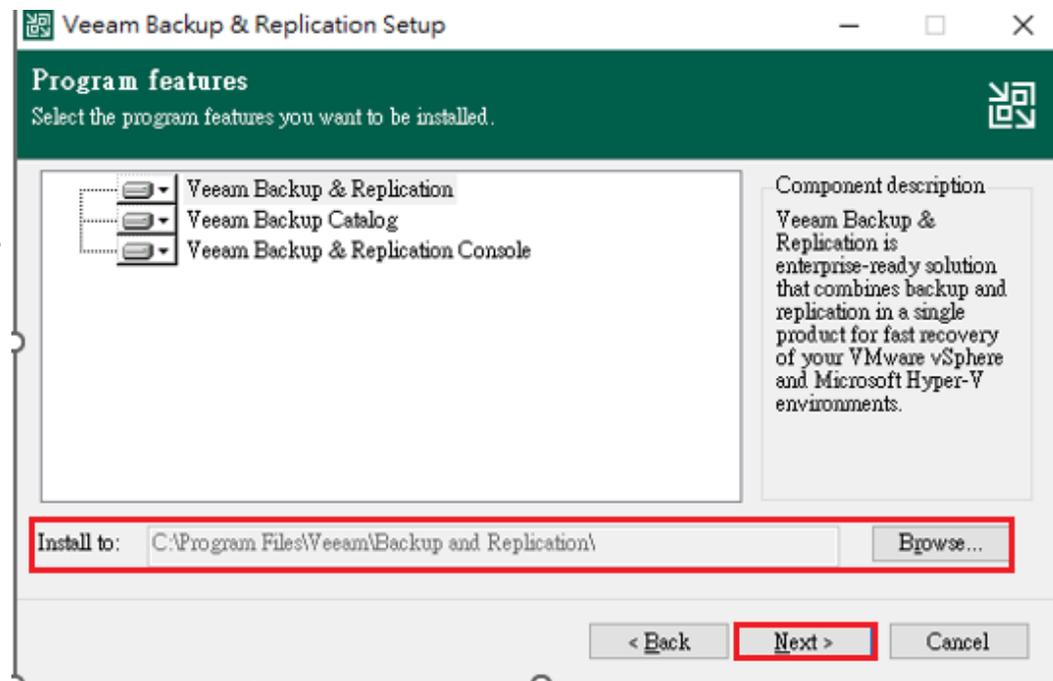
點擊Browse後

找到授權檔案(license key)後按確認



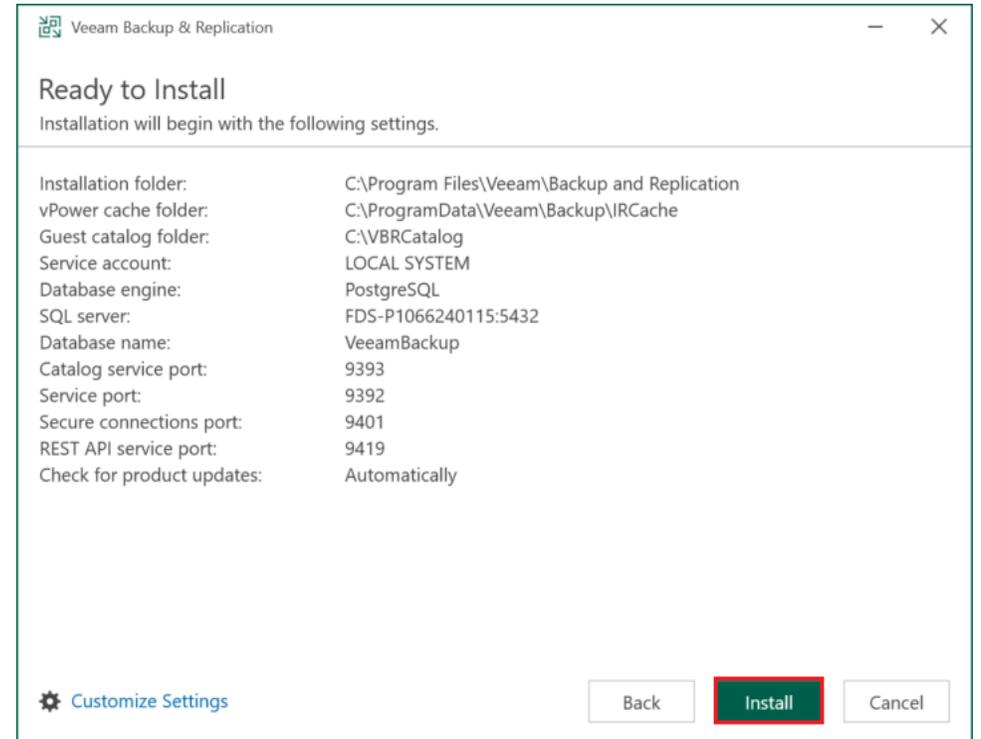
設定安裝路徑

此步驟可自訂Veeam Backup Replication的軟體安裝路徑，
需要自訂擇點擊Browse選擇路徑，
如無須自訂則按Next進到下一步動作



確認設定

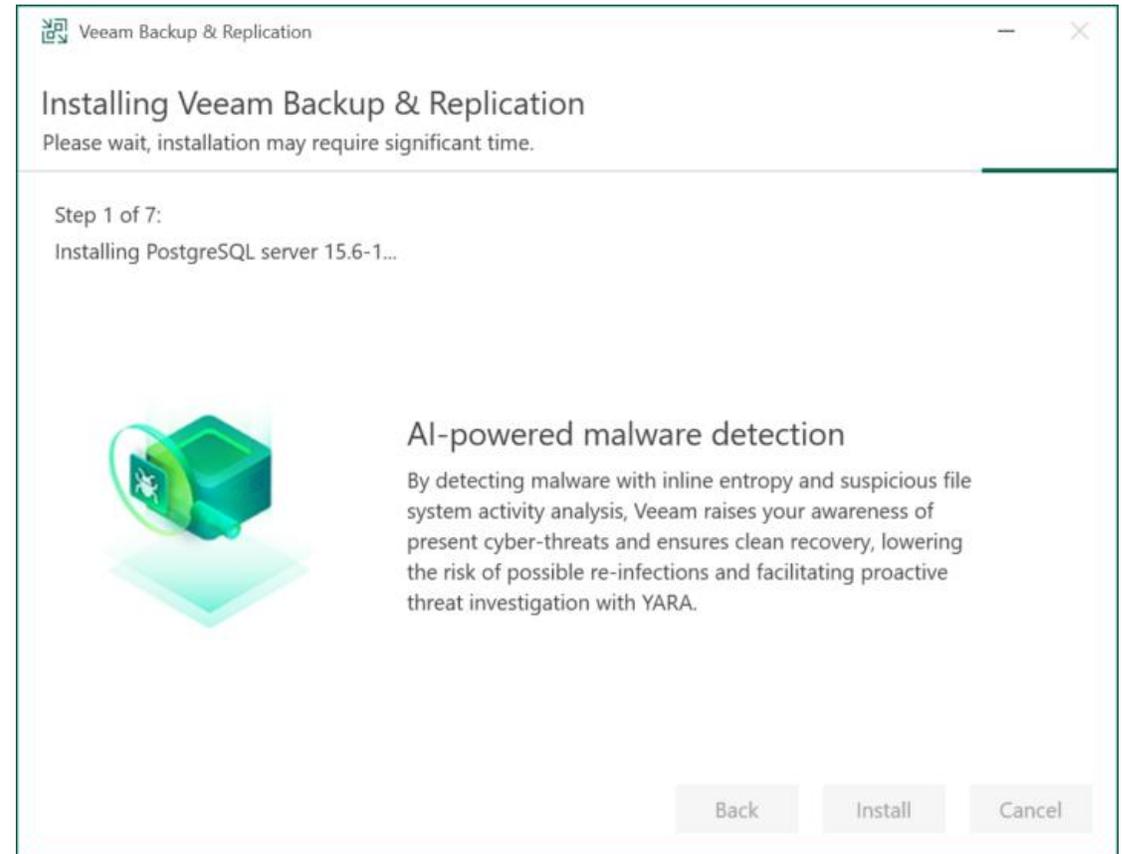
確認沒問題後，點擊Install



安裝畫面

開始進行 Veeam Backup Replication & SQL Server Express 安裝

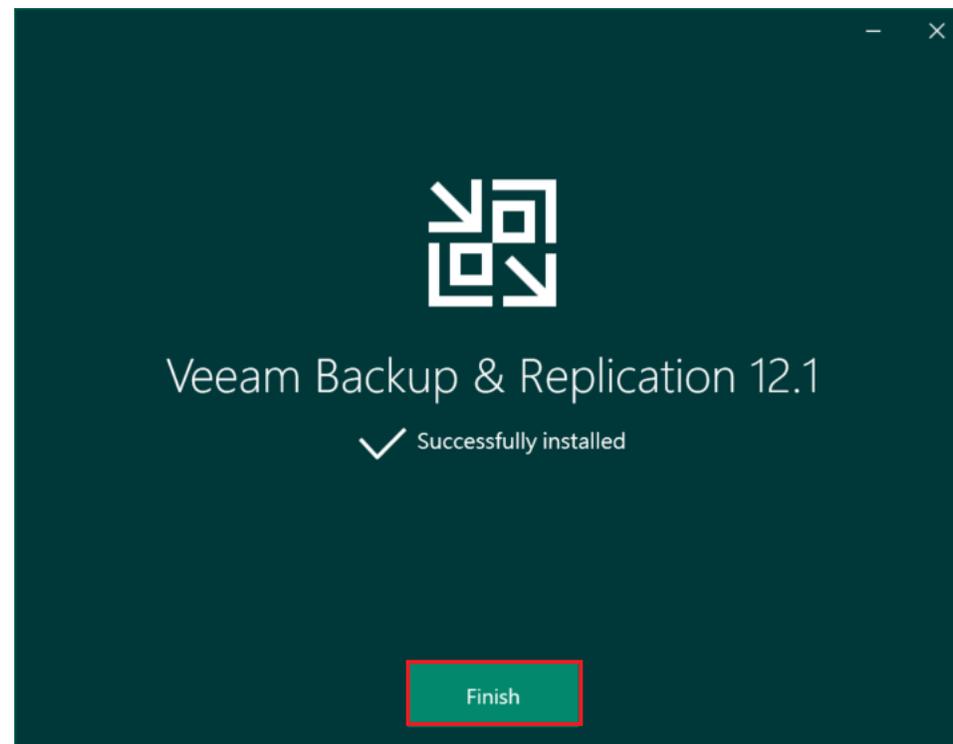
P.S. 如果SQL Server 使用空間超過10GB Express版本限制的話則須購買額外的使用授權



安裝完成畫面

看到此畫面表示軟體已正確安裝完成

按下Finish後完成軟體安裝動作





手動安裝License Key

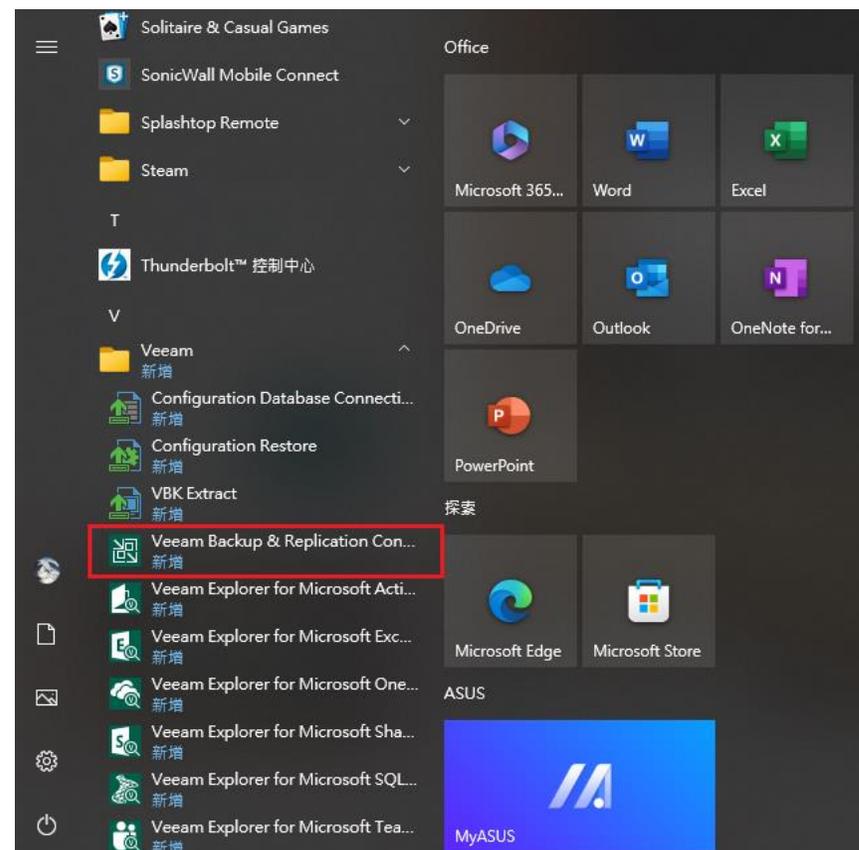
執行Veeam Backup & Replication

安裝完成後，

可於【開始】功能表的所有程式內看到新安裝的Veeam資料夾

點擊Veeam Backup & Replication console圖示

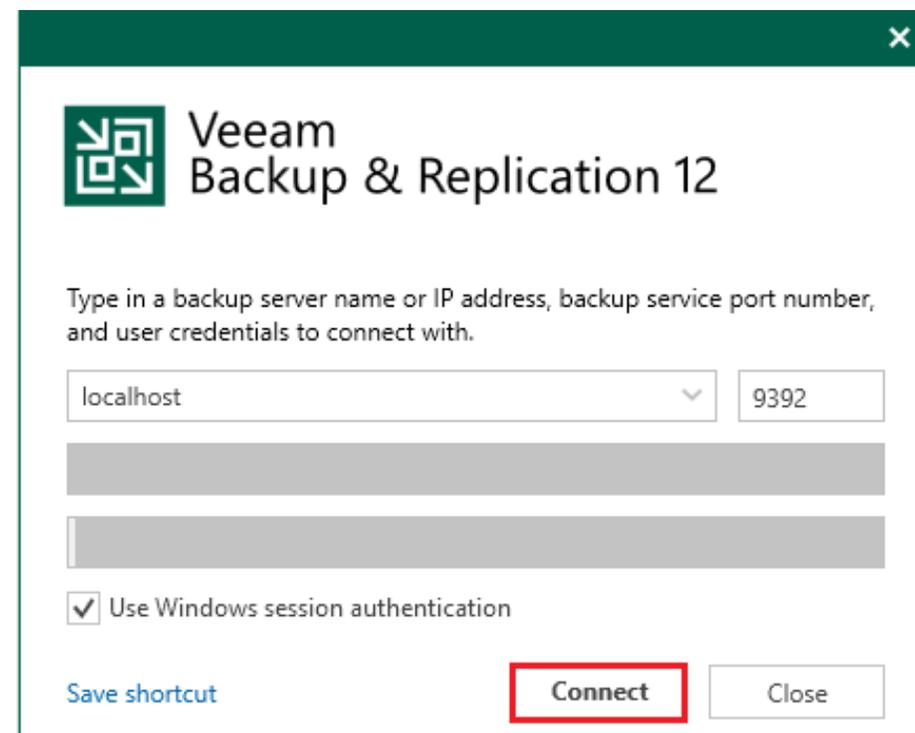
即可開啟VBR應用程式



Veeam Backup & Replication 連線程式

執行應用程式並點擊【Connect】

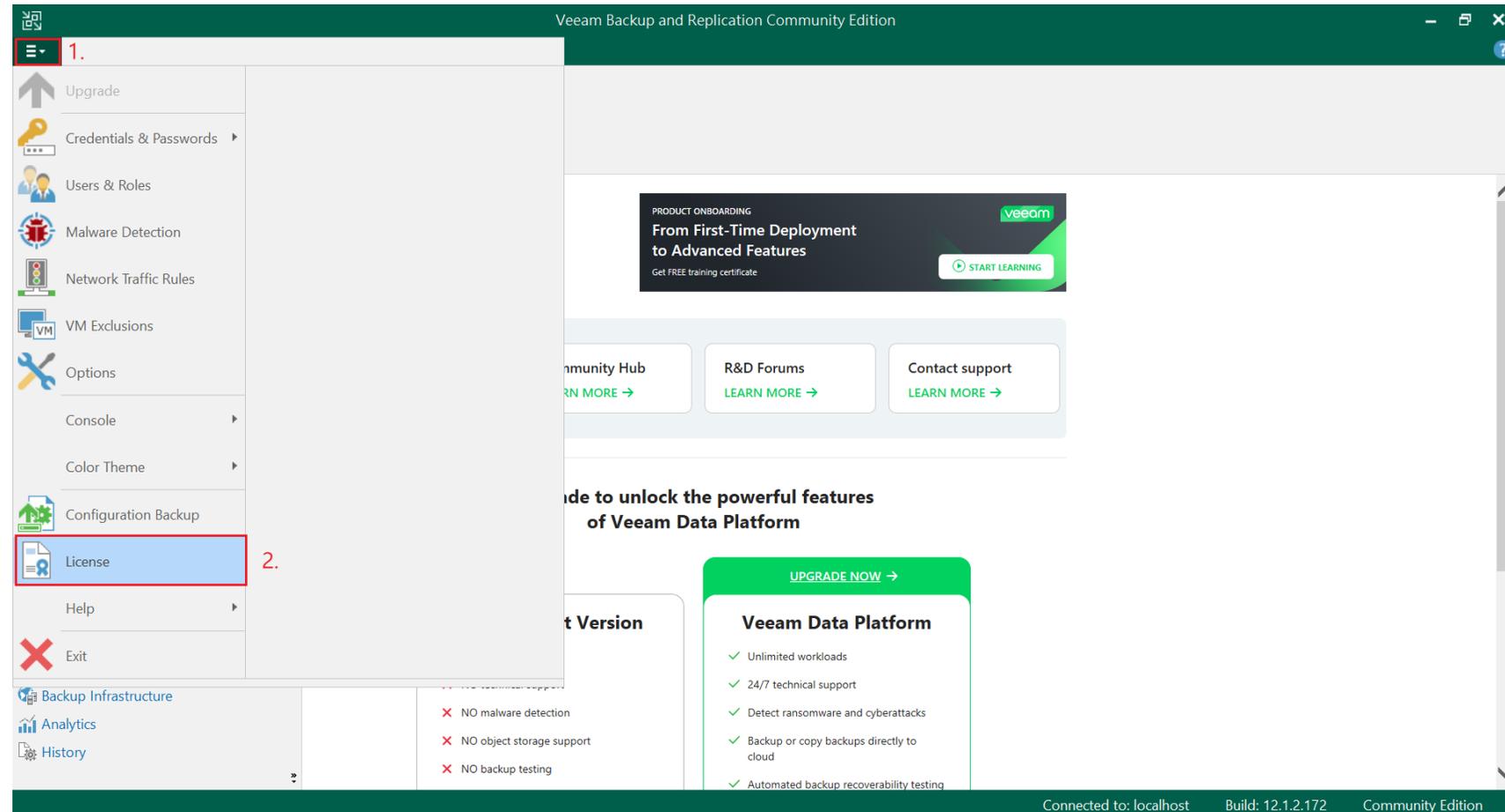
打開備份軟體並連線至備份伺服器



The screenshot shows the Veeam Backup & Replication 12 connection dialog box. The title bar is dark green with a close button (X) in the top right corner. The main area has a white background with the Veeam logo and the text "Veeam Backup & Replication 12". Below this, there is a instruction: "Type in a backup server name or IP address, backup service port number, and user credentials to connect with." There are two input fields: the first contains "localhost" and has a dropdown arrow, the second contains "9392". Below these are two greyed-out input fields for user credentials. A checkbox labeled "Use Windows session authentication" is checked. At the bottom, there are three buttons: "Save shortcut" (blue text), "Connect" (white text with a red border), and "Close" (white text).

手動安裝License Key(1/2)

1. 點開左上角選單
2. 進入License



手動安裝License Key(2/2)

- 3. 點擊Install
匯入License Key
- 4. Close

③ Install這邊點擊
匯入License Key

打勾(會自動更新授權)

④ 完成後Close即完成

進行虛擬機備份前置設定動作 (Hyper-V、VMware)

設定虛擬化管理平台(VMware)

1. Veeam Backup Replication 點擊 Backup Infrastructure
2. 找到 Managed Servers 右鍵選擇 Add Server
3. 根據貴司環境使用的虛擬化平台進行選擇

3. Add Server

Before using hypervisor file management functionality, you must register your virtual infrastructure. To start this process, click the Add Server button in the ribbon (or just click this text). For VMware vSphere, add one or more vCenter Servers. You can also add ESXi hosts individually. Adding vCenter Server is preferred, because it makes Veeam Backup & Replication vMotion-aware. For Microsoft Hyper-V, add one or more System Center Virtual Machine Manager (SCVMM) Servers, Hyper-V clusters, or standalone Hyper-V hosts. Based on your needs, also consider adding Microsoft Windows and Linux servers to use for hosting various backup infrastructure roles.

1. Backup Infrastructure

2. Managed Servers

4. VMware vSphere

Adds VMware private cloud infrastructure servers to the inventory.

Microsoft Hyper-V

Adds Microsoft private cloud infrastructure servers to the inventory.

Nutanix AHV

Adds Nutanix private cloud infrastructure clusters to the inventory.

Red Hat Virtualization

Adds Red Hat Virtualization clusters to the inventory.

Oracle Linux KVM

Adds Oracle Linux KVM to the inventory.

Microsoft Windows

Adds a Microsoft Windows server to the inventory.

Linux

Adds a Linux server to the inventory.

Cancel

1 server Connected to: localhost Build: 12.1.2.172 Community Edition

VMware

Add Server

Select the type of a server you want to add to your backup infrastructure. All already registered servers can be found under the Managed Servers node on the Backup Infrastructure tab.

-  **VMware vSphere**
Adds VMware private cloud infrastructure servers to the inventory.
-  **Microsoft Hyper-V**
Adds Microsoft private cloud infrastructure servers to the inventory.
-  **Nutanix AHV**
Adds Nutanix private cloud infrastructure clusters to the inventory.
-  **Red Hat Virtualization**
Adds Red Hat Virtualization clusters to the inventory.
-  **Oracle Linux KVM**
Adds Oracle Linux KVM to the inventory.
-  **Microsoft Windows**
Adds a Microsoft Windows server to the inventory.
-  **Linux**
Adds a Linux server to the inventory.

Cancel

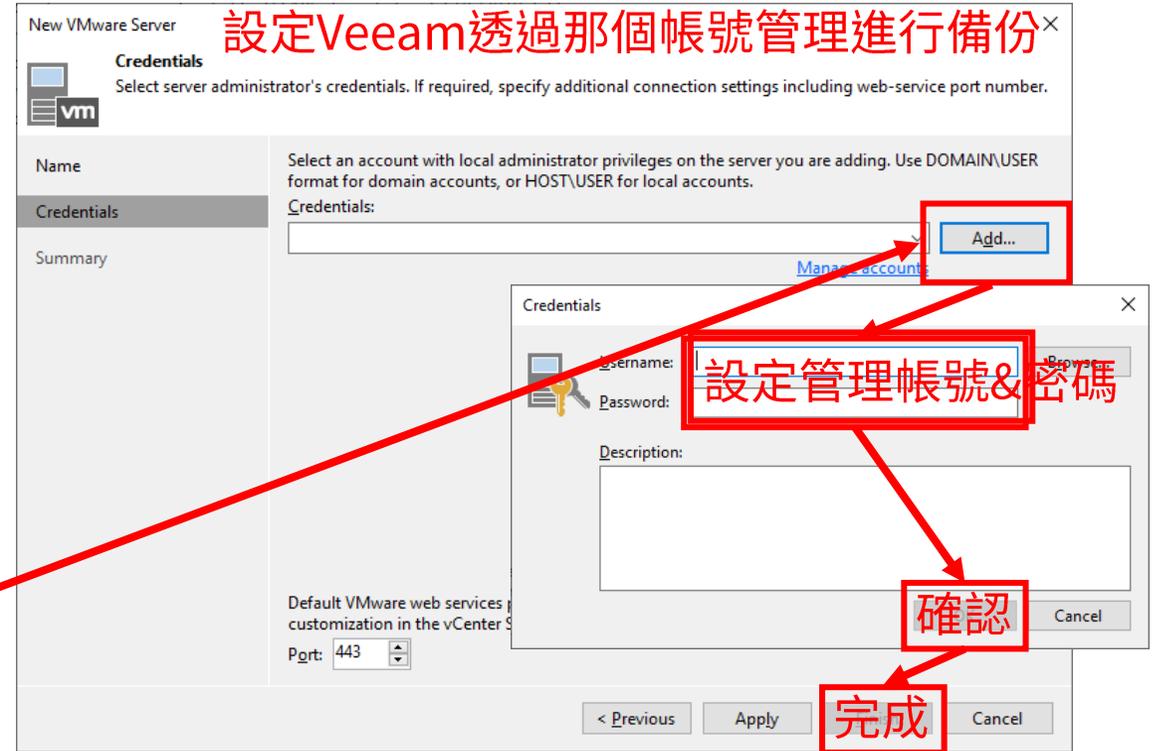
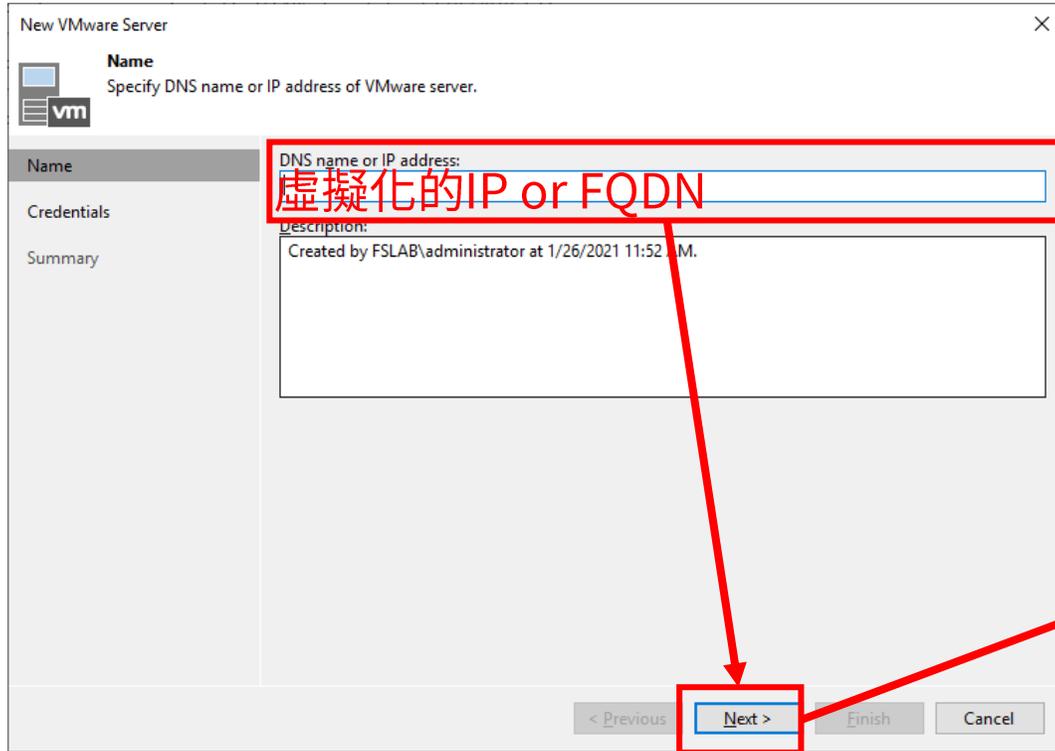
VMware vSphere

Select the type of a VMware server you want to add to the inventory.

-  **vSphere**
Adds vCenter Server (recommended), or standalone vSphere Hypervisor (ESXi) to the inventory.
-  **Cloud Director**
Adds VMware Cloud Director server to the inventory.

Cancel

VMware



注意 !!

要透過Veeam對VMware平台下的虛擬機進行備份需要支援vStorage API功能(允許使用第三分軟體進行備份)

VMware

設定完成後可於受管理的伺服器
看到已設定完成的VMware伺服器
(ESXi & vCenter Server)

The screenshot shows the Veeam Backup and Replication console interface. The top navigation bar includes 'SERVER TOOLS' and 'VEEAM BACKUP AND REPLICATION'. Below the navigation bar are icons for 'Add Server', 'Edit Server', 'Remove Server', 'Rescan', 'Missing Updates', and 'Upgrade'. The main content area is divided into 'BACKUP INFRASTRUCTURE' and a search bar. The 'Managed Servers' section is highlighted, and a table of servers is displayed. The table has columns for 'NAME', 'TYPE', and 'DESCRIPTION'. The 'Managed Servers' section in the left sidebar is also highlighted.

NAME ↑	TYPE	DESCRIPTION
	VMware ESXi Server	Created by WIN16-VEEAMBACK\Administrator at 8...
	VMware ESXi Server	Created by WIN16-VEEAMBACK\Administrator at 8...
	VMware ESXi Server	Created by WIN16-VEEAMBACK\Administrator at 8...
	VMware vCenter Server	Created by WIN16-VEEAMBACK\Administrator at 2...
Win16-VeeamBack...	Microsoft Windows Server	Backup server

設定虛擬化管理平台(Hyper-V)

1. Veeam Backup Replication 點擊 Backup Infrastructure

2. 找到 Managed Servers 右鍵選擇 Add Server

3. 根據貴司環境使用的虛擬化平台進行選擇

The screenshot shows the Veeam Backup and Replication Community Edition interface. The 'Server Tools' ribbon is active, and the 'Server' tab is selected. The 'Add Server' button in the ribbon is highlighted with a red box and labeled '3.'. The left sidebar shows the 'Backup Infrastructure' tab selected, and the 'Managed Servers' node is highlighted with a red box and labeled '2.'. The 'Add Server' dialog box is open, showing a list of virtualization platforms. The 'Microsoft Hyper-V' option is highlighted with a red box and labeled '4.'. The dialog box contains the following text: 'Add Server', 'Select the type of a server you want to add to your backup infrastructure. All already registered servers can be found under the Managed Servers node on the Backup Infrastructure tab.', and a list of options: 'VMware vSphere', 'Microsoft Hyper-V', 'Nutanix AHV', 'Red Hat Virtualization', 'Oracle Linux KVM', 'Microsoft Windows', and 'Linux'. A 'Cancel' button is visible at the bottom right of the dialog box. The status bar at the bottom shows '1 server', 'Connected to: localhost', 'Build: 12.1.2.172', and 'Community Edition'.

Windows Server (Hyper-V)

Add Server

Select the type of a server you want to add to your backup infrastructure. All already registered servers can be found under the Managed Servers node on the Backup Infrastructure tab.

-  **VMware vSphere**
Adds VMware private cloud infrastructure servers to the inventory.
-  **Microsoft Hyper-V**
Adds Microsoft private cloud infrastructure servers to the inventory.
-  **Microsoft Windows**
Adds Microsoft Windows server (Windows 2008 R2 SP1 or later, Windows 7 SP1 or later).
-  **Linux**
Adds Linux server (must use bash shell, and have SSH and Perl installed).

Cancel

Microsoft Hyper-V

Select the type of a Microsoft server you want to add to the inventory.

-  **Hyper-V**
Adds SCVMM server, Hyper-V cluster, or standalone host (2008 R2 or later) to the inventory.
-  **SMB3**
Adds SMB3 server cluster, or standalone SMB3 server.

Cancel

Windows Server (Hyper-V)

New Hyper-V Server ✕

 **Name**
Specify DNS name or IP address of Microsoft Hyper-V server.

Name **DNS name or IP address:**
| 虚拟化服务器的IP or FQDN

Type

Credentials

Review

Apply

Summary

Description:
Created by FREEDOM\novachen at 2024/6/4 下午 04:12.

< Previous **Next >** Finish Cancel

Windows Server (Hyper-V)

這邊可根據貴司所使用的環境進行選擇

1. Microsoft SCVMM

有使用微軟的SCVMM來管理大規模Hyper-V可使用此選項

2. Microsoft Hyper-V cluster

有使用微軟的高可用性叢集服務可使用此選項

3. Microsoft Hyper-V server

儘管理單一Hyper-V伺服器可使用此選項

New Hyper-V Server

Type
Select the type of server you want to add.

Name

Type

Credentials

Review

Apply

Summary

Microsoft System Center Virtual Machine Manager (SCVMM)
If you are using SCVMM to manage your Hyper-V infrastructure, we can pull all Hyper-V hosts and 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 Hyper-V 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 not managed by SCVMM.

< Previous Next > Finish Cancel

Windows Server (Hyper-V)

New Hyper-V Server

Credentials
Specify server credentials.

Name
Type
Credentials
Review
Apply
Summary

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.
Credentials:
Select existing credentials or add new [Manage accounts](#)

Click Ports to customize network ports to be used by individual components.

< Previous **Next >** Finish Cancel

Credentials 設定管理帳號&密碼

Username:
Password:
Description:

Windows Server (Hyper-V)

設定完成後可於受管理的伺服器內看到
已設定完成的Hyper-v伺服器

The screenshot displays the Veeam Backup & Replication console interface. The top navigation bar includes 'SERVER TOOLS' and 'VEEAM BACKUP'. Below this, there are tabs for 'HOME' and 'SERVER'. The 'SERVER' tab is active, showing a toolbar with icons for 'Add Server', 'Edit Server', 'Remove Server', 'Rescan', 'Missing Updates', and 'Upgrade'. The main area is divided into 'BACKUP INFRASTRUCTURE' on the left and a table of servers on the right. The 'Managed Servers' folder is expanded, showing 'Microsoft Hyper-V' and 'Microsoft Windows' sub-folders. The table lists several servers, with one entry highlighted in red: 'WIN-DellVeeamVM.FSLAB.net.tw', which is a 'Microsoft Windows Server' and a 'Backup server'.

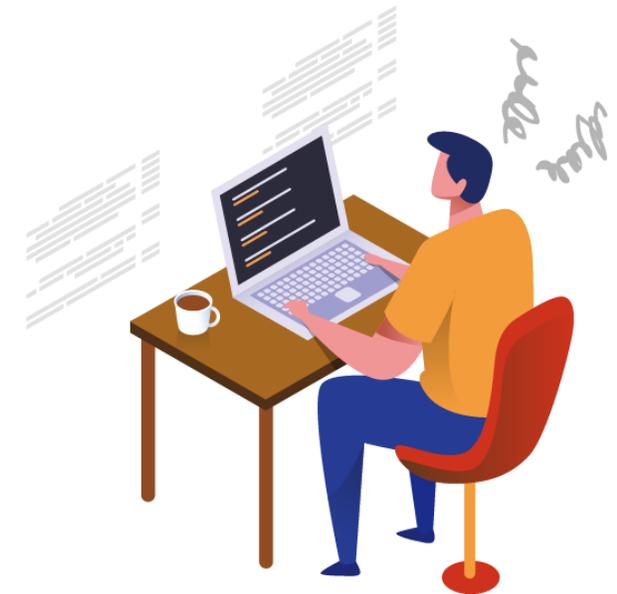
NAME ↑	TYPE	DESCRIPTION
	Microsoft Windows Server	Created by FSLAB\Administrator at 12/6/2019 3:32...
	Microsoft Windows Server	Created by FSLAB\Administrator at 12/5/2019 7:37...
	Microsoft Hyper-V Server	Created by FSLAB\Administrator at 12/5/2019 8:00...
	Microsoft Windows Server	Created by FSLAB\Administrator at 12/5/2019 7:39...
	Microsoft Hyper-V Server	Created by FSLAB\Administrator at 12/5/2019 8:03...
WIN-DellVeeamVM.FSLAB.net.tw	Microsoft Windows Server	Backup server

正確的備份觀念

了解什麼是備份三二一

首先我們要了解備份三二一各代表的意思為何

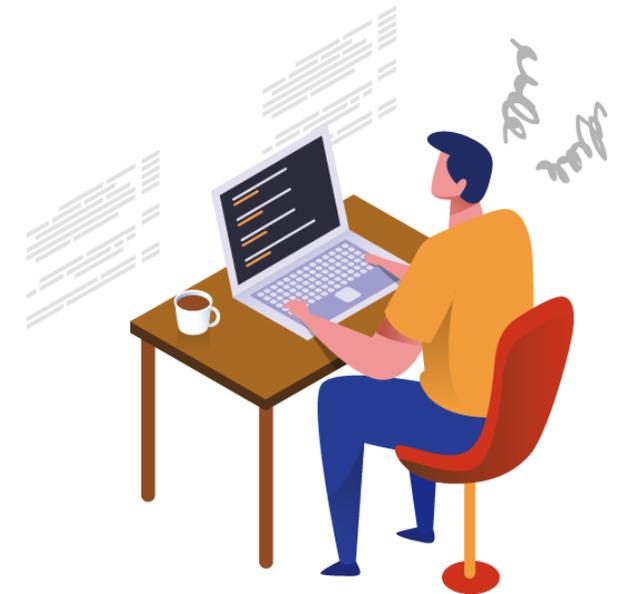
- (一) 第一個三是指至少備份三份以上
- (二) 第二個二是指至少有兩種儲存形式
- (三) 第三個一是指至少一份位於異地



如何透過Veeam來達成備份三二一

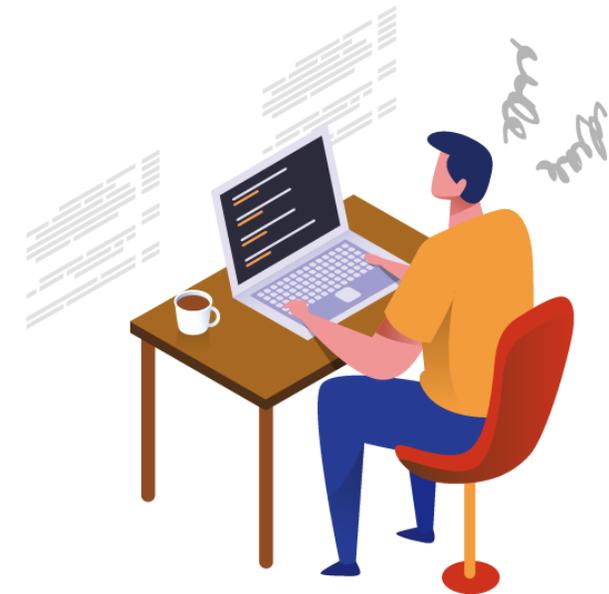
首先我們要了解本次安心備份包我們提供了什麼服務

1. 提供了備份至地端儲存設備的授權
2. 提供了備份至雲端的授權
3. 提供了雲端儲存空間來做異地備份使用
4. 提供不論何時何地我只需透過安心備份包的服務來進行還原工作



透過安心備份包提供的服務如何進行正確的備份

1. 透過Veeam進行第一次備份至地端儲存設備
2. 透過儲存設備內的功能進行二次備份或複寫動作
3. 透過Veeam將儲存設備的備份檔案Backup Copy至雲端空間達成第三次備份動作



透過此備份方式有什麼優點

1. 達成備份三二一
2. 透過Veeam的Backup Copy功能無須再消耗原被備份主機的資源
3. 透過Veeam的WAN Acceleration功能可以大大的縮短備份時間
4. 透過安心備份包的Veeam軟體可以提供更完善的備份服務(功能完整且有強大的服務團隊)

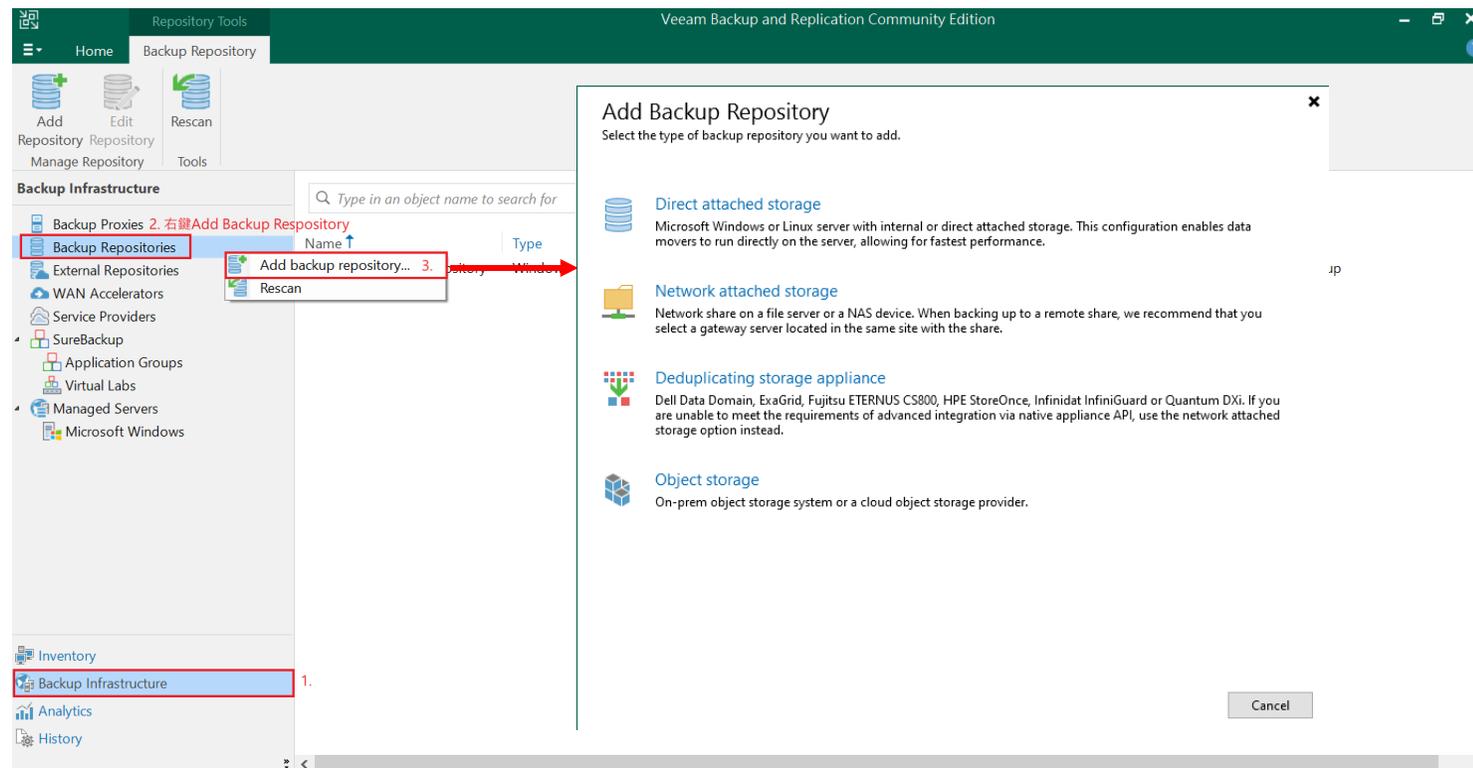


設定儲存空間(雲端、地端)

如何設定儲存空間

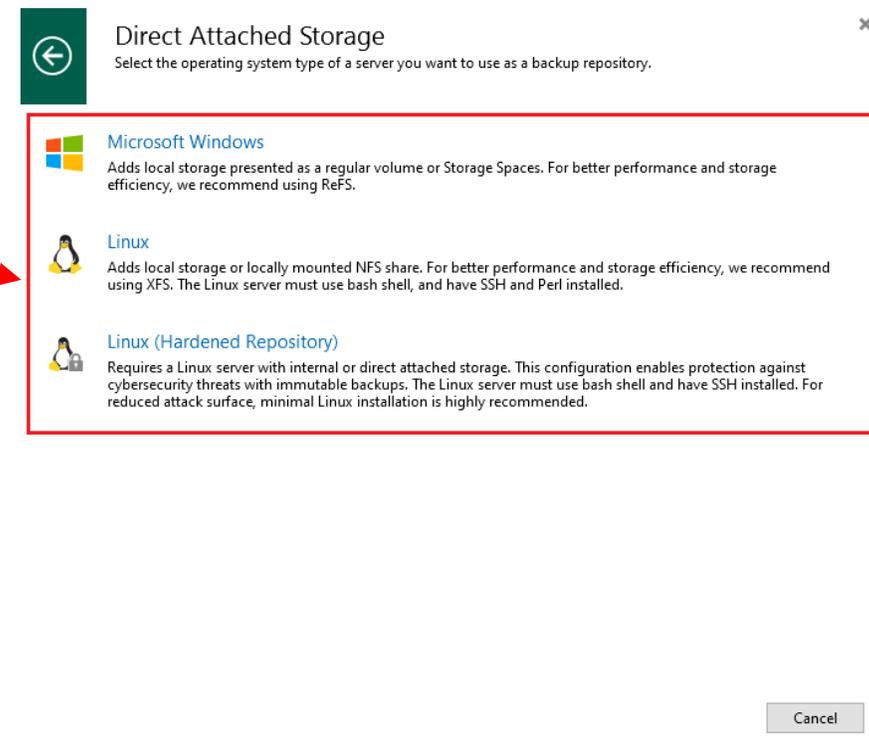
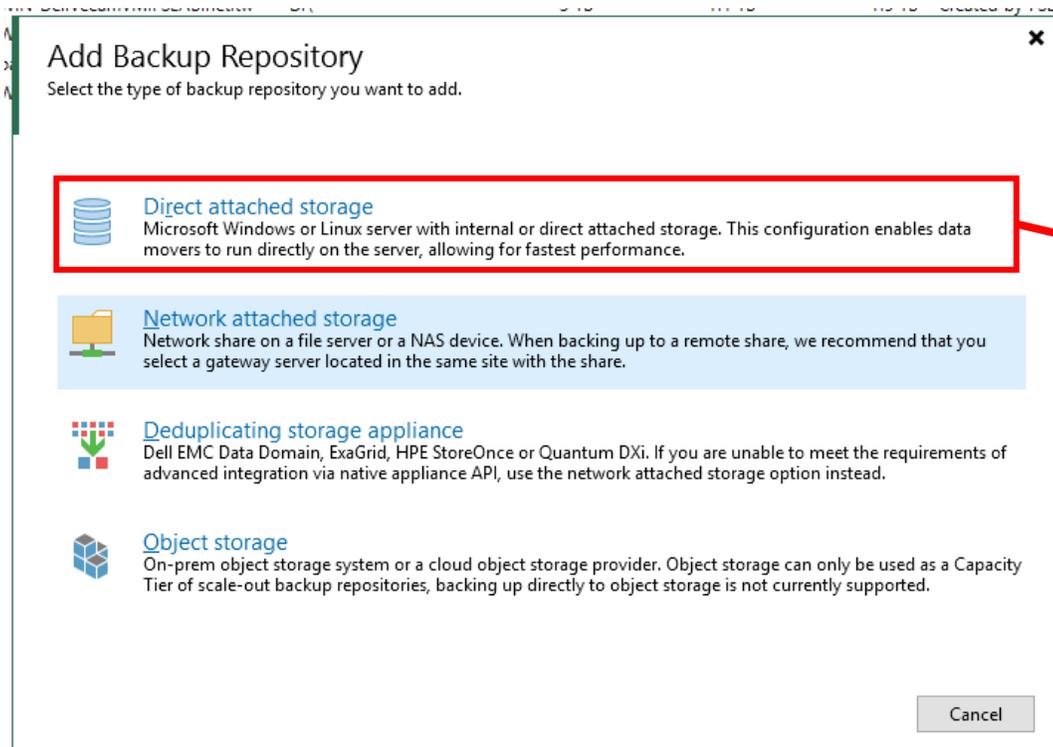
Veeam提供了四種類型的儲存空間

1. Direct attached storage
2. Network attached storage
3. Deduplicating storage appliance
4. Object storage



Direct Attached Storage

就是Windows or Linux作業系統下的儲存空間，以Windows為例D槽或 D槽的某個資料夾



以Windows為例，設定New Repository名稱

New Backup Repository ×

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

Name

Server

Repository

Mount Server

Review

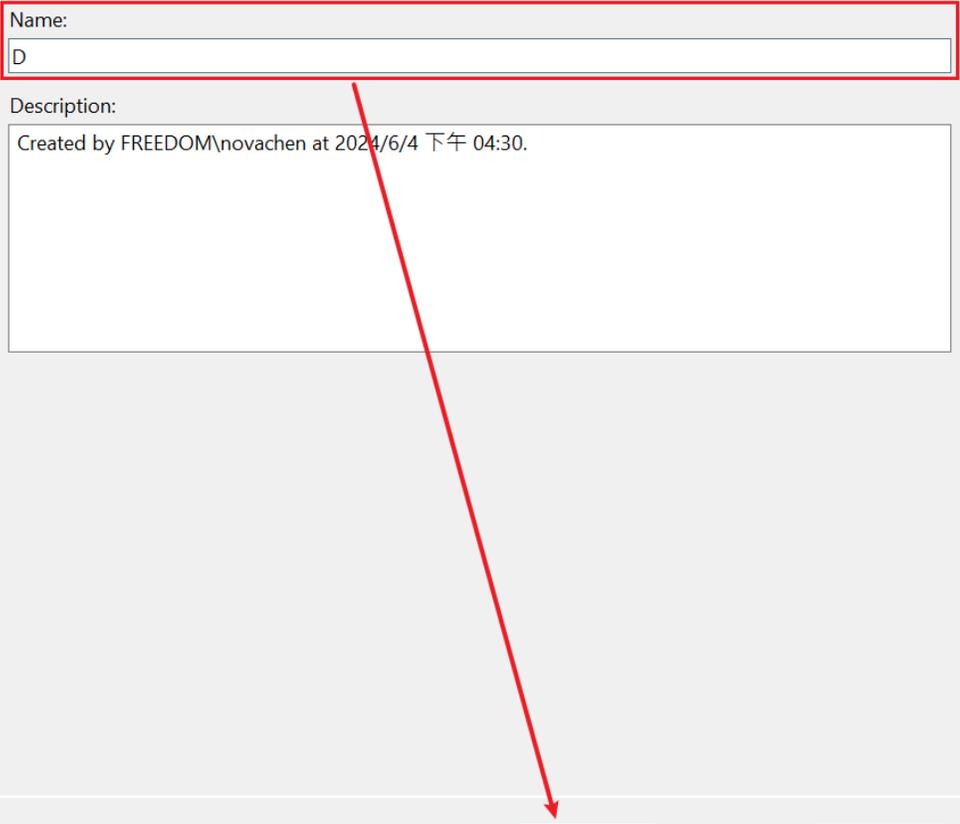
Apply

Summary

Name:
D

Description:
Created by FREEDOM\novachen at 2024/6/4 下午 04:30.

< Previous **Next >** Finish Cancel



要新增的儲存空間位於那台伺服器

New Backup Repository

Server
Choose repository server. You can select server from the list of managed servers added to the console.

Name

Repository server:
WIN-DellVeeamVM.FSLAB.net.tw (Backup server)

Path	Capacity	Free	Populate
------	----------	------	----------

Server

Repository

Mount Server

Review

Apply

Summary

< Previous

如要使用其他伺服器的儲存空間按此新增

如無新增則下一步即可

瀏覽並選擇伺服器的儲存空間 (可選到資料夾)

New Backup Repository

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

Name

Server

Repository

Mount Server

Review

Apply

Summary

Location

Path to folder: **Browse...** **Populate**

Capacity:

Free space:

Load control

Running too many concurrent tasks against the repository may reduce overall performance, and cause I/O timeouts. Control storage device saturation with the following settings:

Limit maximum concurrent tasks to: 4 **同時最多任務數**

Limit read and write data rate to: 1 MB/s **限制讀寫速率**

Click Advanced to customize repository settings **Advanced...**

< Previous **Next >** **Finish** **Cancel**

Select Folder

Folders:

- WIN-DellVeeamVM.FSLAB.net.tw
- C:\
- JohnnyVBR (D:\)
- VBR_SOBR_TEST (F:\)
- VeeamEnterpriseBackup (E:\)

OK **Cancel**

後續設定皆下一步即可設定完成

New Backup Repository ✕

 **Mount Server**
Specify a server to mount backups to when performing advanced restores (file, application item and instant VM recoveries).
Instant recoveries require a write cache folder to store changed disk blocks in.

Name	<u>M</u> ount server:
Server	WIN-DellVeeamVM.FSLAB.net.tw (Backup server) ▼ Add New...
Repository	Instant recovery write <u>c</u> ache folder: E:\ProgramData\Veeam\Backup\ Browse...
Mount Server	Ensure that the selected volume has sufficient free disk space to store changed disk blocks of instantly recovered VMs. We recommend placing write cache on an SSD drive. <input checked="" type="checkbox"/> E nable 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.
Review	
Apply	
Summary	

< Previous **Next >** Finish Cancel

Network 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 EMC Data Domain, ExaGrid, HPE StoreOnce 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. Object storage can only be used as a Capacity Tier of scale-out backup repositories, backing up directly to object storage is not currently supported.

Cancel

Network Attached Storage

Select the type of a shared folder you want to use as a backup repository.

- NFS share**
Adds an NFS share. This is the recommended configuration for leveraging storage capacity provided by NAS devices.
- SMB share**
Adds an SMB (CIFS) share. For reliability reasons, this configuration is recommended for continuously available (CA) network shares only.

Cancel

設定網路儲存空間名稱

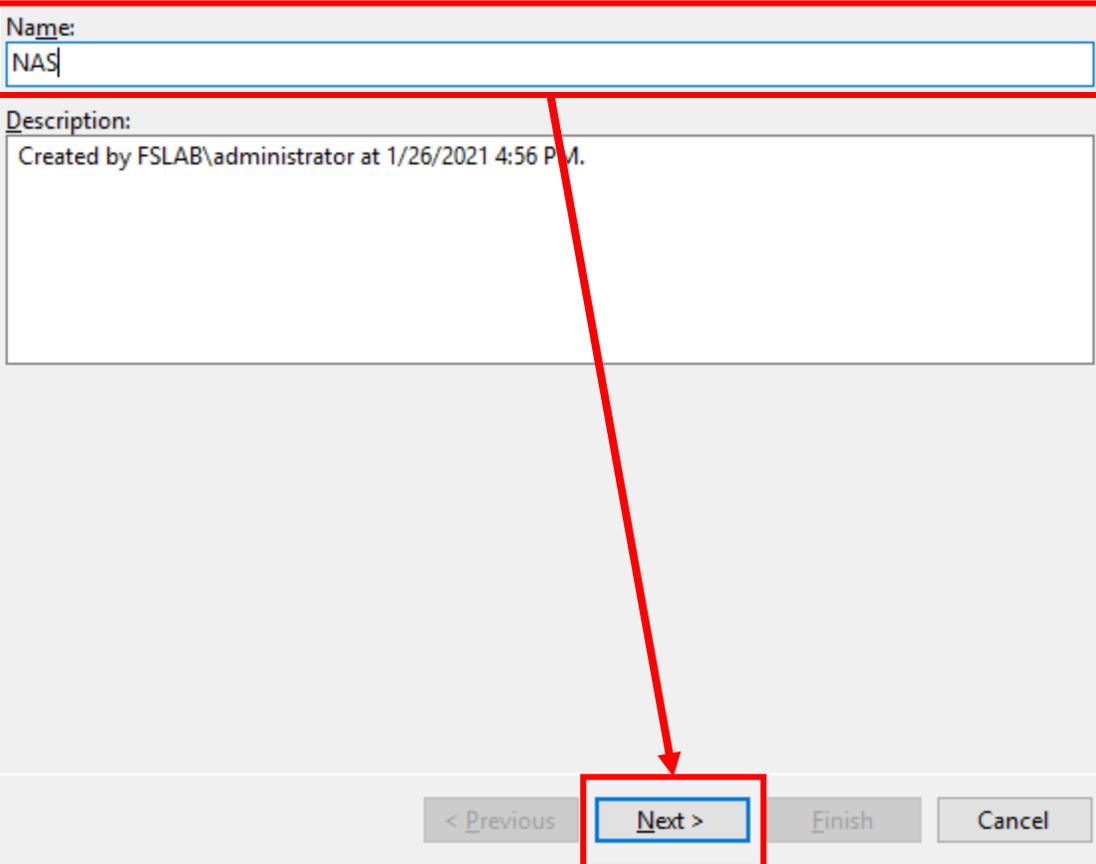
New Backup Repository

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

Name
Name:
NAS

Description:
Created by FSLAB\administrator at 1/26/2021 4:56 P.M.

< Previous **Next >** Finish Cancel



設定網路儲存空間位置及存取帳號

New Backup Repository

Share
Type in UNC path to share (mapped drives are not supported), specify share access credentials and how backup jobs should write data to this share.

Name
Shared folder:
\\X.X.X.X\backups\ Browse...

Share
Use \\server\folder format

Repository
 This share requires access credentials:
Add... Manage accounts

Gateway server:
 Automatic selection
 The following server:
WIN-DellVeeamVM.FSLAB.net.tw (Backup server)
Use this option to improve performance and reliability of backup to a NAS local

Credentials
Username: Browse...
Password: 設定存取帳密
Description:
OK Cancel

< Previous Next > Finish Cancel

後續設定皆下一步即可設定完成

Edit Backup Repository ✕

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

Name	Location
Share	Path to folder: <input type="text" value="\\DS418\VeeamBackup"/>
Repository	 Capacity: <input type="text"/> <input type="button" value="Populate"/>  Free space:
Mount Server	Load control
Review	Running too many concurrent tasks against the same repository may reduce overall performance, and cause I/O operations to timeout. Control storage device saturation with the following settings:
Apply	<input type="checkbox"/> Limit maximum concurrent tasks to: <input type="text"/> <input type="button" value="↑"/> <input type="button" value="↓"/> 同時最多任務數 <input type="checkbox"/> Limit read and write data rates to: <input type="text"/> <input type="button" value="↑"/> <input type="button" value="↓"/> MB/s 限制讀寫速率
	Click Advanced to customize repository settings <input type="button" value="Advanced..."/>

設定安心備份包提供的雲端空間

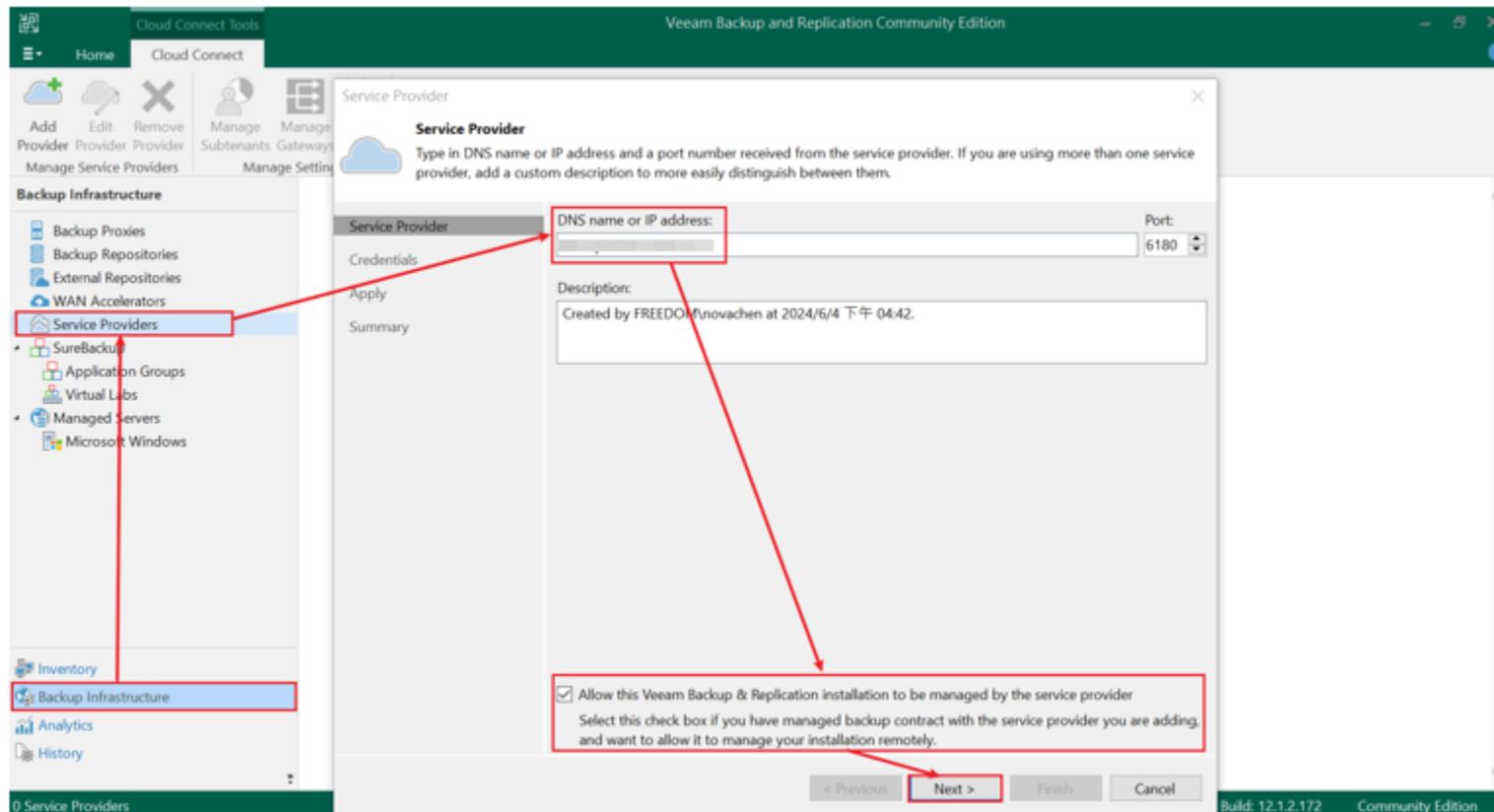
第一步：設定Service Providers

(右鍵新增)

第二步：設定雲端空間FQDN & IP

第三步：打勾允許安裝管理套件

第四步：下一步



檢查安全憑證及設定存取帳號

The screenshot displays a software interface for setting up credentials. The main window is titled "Service Provider" and "Credentials". It shows a verification step for a certificate issued to "backup.hicloud.hinet.net" by "Public Certification Authority - G2". A red box highlights the "Verified by" field containing the text "OU=Public Certification Authority - G2, O='Chunghwa Telecom Co., Ltd.', C=TW". A red arrow points from this field to a "Certificate Information" dialog box. This dialog box shows the certificate's purpose, issuer, and validity dates. A red box highlights the "Issued to" field with the value "backup.hicloud.hinet.net". Another red arrow points from this field to the "Add..." button in the main window. A third red arrow points from the "Add..." button to a "Credentials" dialog box. This dialog box has fields for "Username" and "Password", with a red box around the "Password" field containing the text "設定存取帳號". A final red arrow points from the "OK" button in the "Credentials" dialog box to the "Apply" button in the main window. A red box also highlights the "Apply" button. A red arrow points from the "Apply" button to the "OK" button in the "Certificate Information" dialog box. A red box highlights the "OK" button in the "Certificate Information" dialog box. A red arrow points from the "OK" button in the "Certificate Information" dialog box to the "Add..." button in the main window.

Service Provider

Credentials
Specify credentials that you have received from the service provider, and validate the certificate.

Service Provider

Credentials

Apply

Summary

You have connected to service provider backup.hicloud.hinet.net

Verified by: **OU=Public Certification Authority - G2, O='Chunghwa Telecom Co., Ltd.', C=TW**

Certificate is verified by third party.

Add or select credentials issued to you by the service provider

Credentials:

Add...

Manage accounts

< Previous **Apply** Finish Ca

Certificate Information

General Details Certification Path

Certificate Information

This certificate is intended for the following purpose(s):

- Ensures the identity of a remote computer
- Proves your identity to a remote computer
- 1.3.6.1.4.1.23459.100.0.3
- 2.23.140.1.2.2

Issued to: backup.hicloud.hinet.net

Issued by: Public Certification Authority - G2

Valid from 5/21/2020 to 5/21/2022

Install Certificate... Issuer Statement

OK

Credentials

Username

Password: **設定存取帳號**

Description:

OK Cancel

如果無法取得此憑證請檢查貴司防火牆是否有阻擋

設定存取帳號

設定完成後即可看到雲端的使用空間

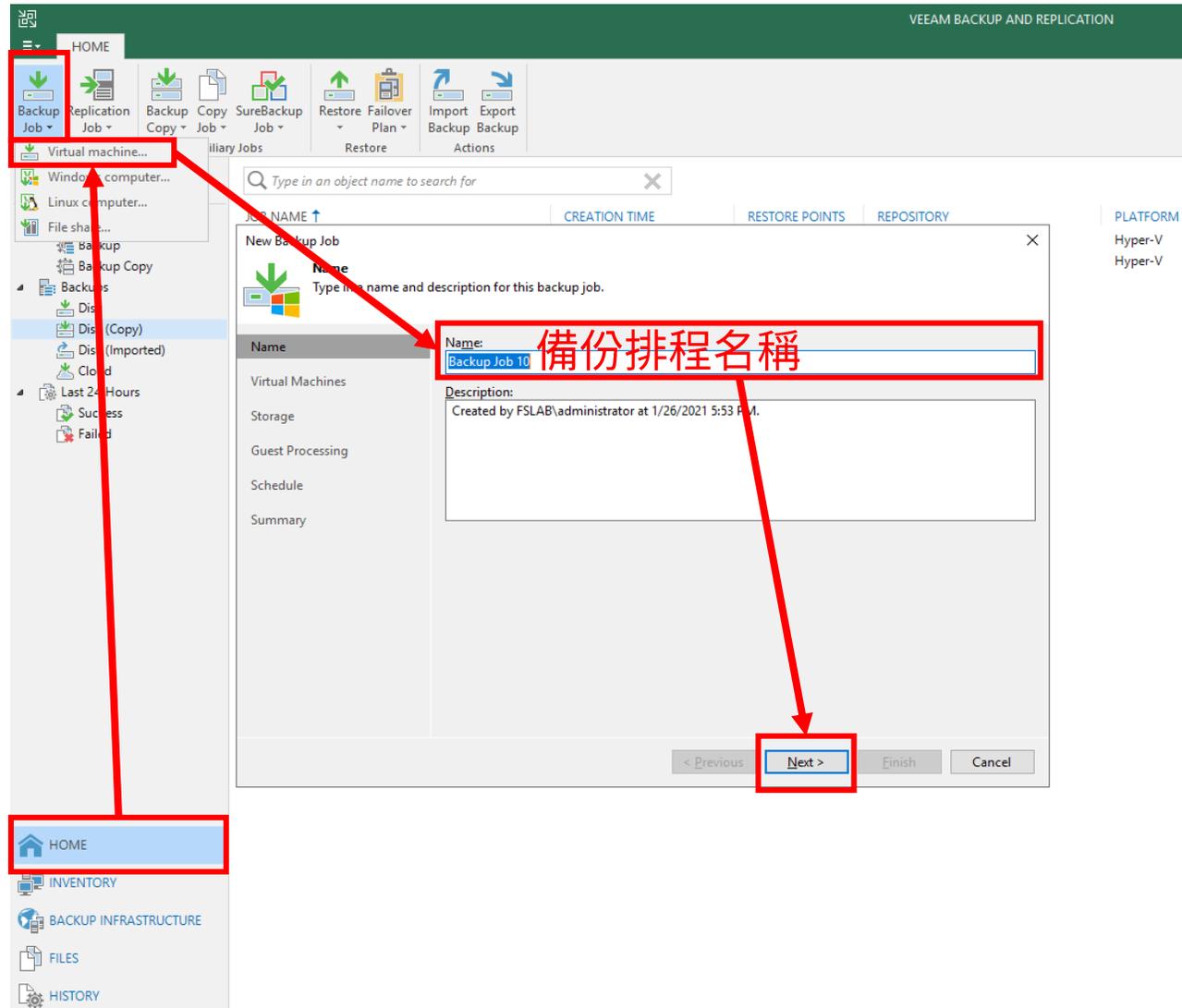
The screenshot displays the Veeam Backup and Replication console interface. The top navigation bar includes 'REPOSITORY TOOLS' and 'VEEAM BACKUP AND REPLICATION'. Below this, there are buttons for 'Add Repository', 'Edit Repository', and 'Rescan Tools'. The main area is titled 'BACKUP INFRASTRUCTURE' and contains a search bar and a table of backup repositories.

NAME ↑	TYPE	HOST	PATH	CAPACITY	FREE	USED SPACE	DESCRIPTION
TESTH	Cloud	192.168.1.100	\howieTest	1024 GB	1002 GB	15.4 GB	Cloud repository Created by FSLAB/administrator at 12/5/2019 7:20...

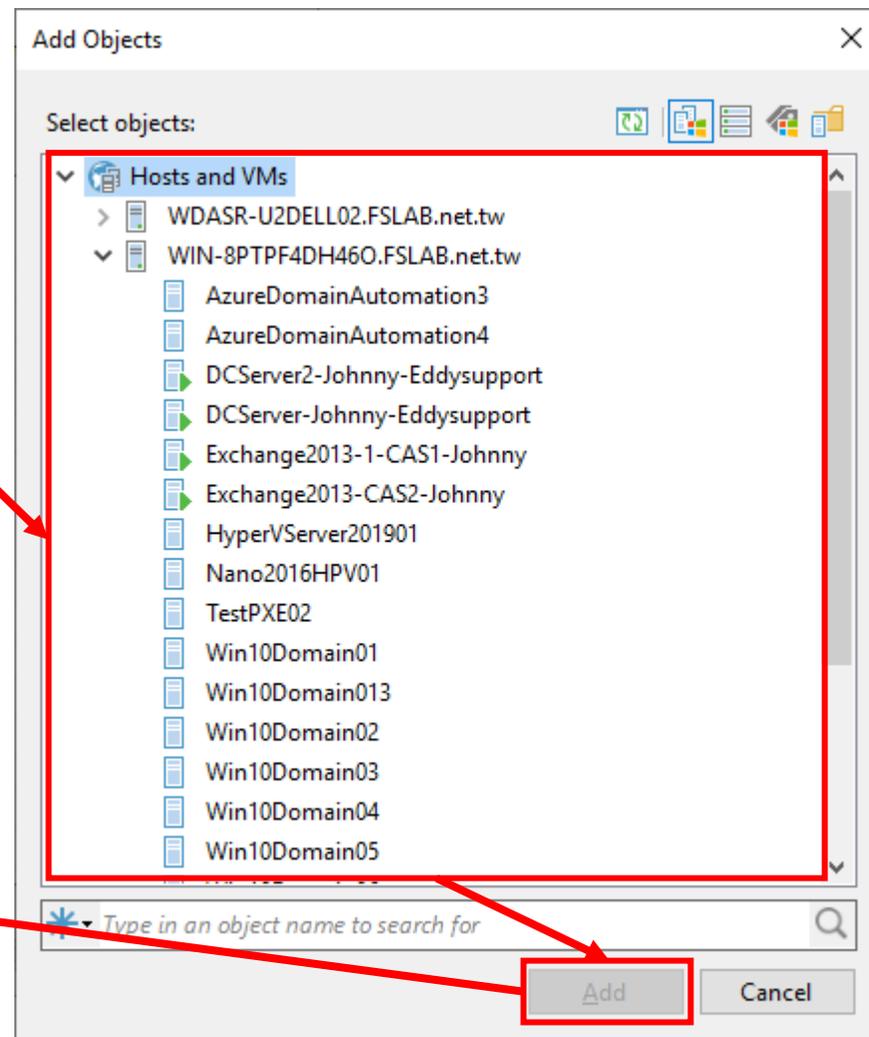
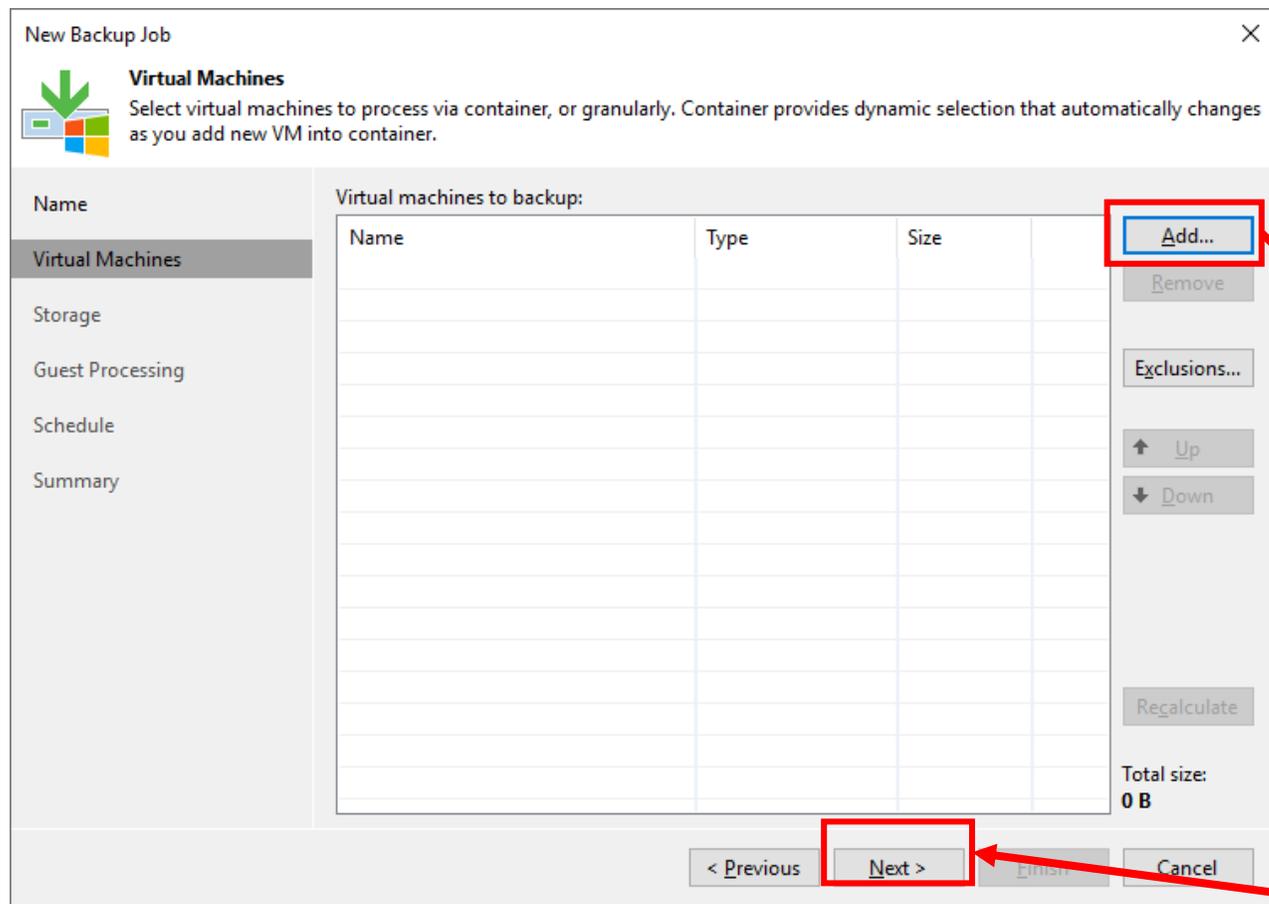
The left sidebar shows a tree view of the backup infrastructure, with 'Backup Repositories' highlighted. A red box also highlights the 'BACKUP INFRASTRUCTURE' menu item at the bottom of the sidebar. A red arrow points from the 'Backup Repositories' menu item to the table above.

設定地端備份

設定備份虛擬機



選擇想備份的虛擬機



設定使用儲存空間及備份細節 (1)

New Backup Job

Storage
Specify processing proxy server to be used for source data retrieval, backup repository to store the backup files produced by this job and customize advanced job settings if required.

Name: Backup proxy: Off-host backup (automatic proxy selection) [Choose...]

Virtual Machines: Backup repository: D (Created by FSLAB\administrator at 1/26/2021 4:20 PM.) [選擇要存到那裡]

Storage: [D (Created by FSLAB\administrator at 1/26/2021 4:20 PM.)] [Map backup]

Guest Processing: Retention policy: 7 [restore points] [設定保留天數]

Schedule: Keep certain full backups longer for archival purposes [Configure...]

Summary: Configure secondary destinations for this job
Use the backups produced by this job to satisfy backup requirement by archiving backups to tape, or efficiently creating remote backups and replicas over WAN.

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

Advanced Settings

Backup Maintenance Storage Notifications Hyper-V Scripts

Backup mode

Reverse incremental (slower)
Increments are injected into the full backup file, so that the latest backup file is always a full backup of the most recent VM state.

Incremental (recommended)
Increments are saved into new files dependent on previous files in the chain. Best for backup targets with poor random I/O performance.

Create synthetic full backups periodically [Days...]
Create on: Saturday [合併備份於星期幾進行]

Transform previous backup chains into rollbacks
Converts previous incremental backup chain into rollbacks for the newly created full backup file.

Active full backup

Create active full backups periodically

Monthly on: First [Monday] [Months...]

Weekly on selected days: Saturday [Days...]

[Save As Default] [OK] [Cancel]

設定使用儲存空間及備份細節 (2)

New Backup Job ✕

 **Guest Processing**
Choose guest OS processing options available for running VMs.

精細備分(DC、SQL等服務可勾起來使用)

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...](#)

Guest interaction proxy:
 [Choose...](#)

Guest OS credentials:
 [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

設定備份排程

1. 勾選Run the Job automatically

根據需求設定於每日、每月或是某個備份排程結束後

2. automatic retry

會對備份失敗的虛擬機重新進行備份動作

以右圖為例每10分鐘重新嘗試一次，共重試三次

New Backup Job [X]

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

Name

Virtual Machines

Storage

Guest Processing

Schedule

Summary

Run the job automatically

Daily at this time: 10:00 PM [dropdown] Everyday [dropdown] [Days...]

Monthly at this time: 10:00 PM [dropdown] Fourth [dropdown] Saturday [dropdown] [Months...]

Periodically every: 1 [dropdown] Hours [dropdown] [Schedule...]

After this job: 2UBackupVm (Created by FSLAB\administrator at 12/5/2019 8:12 PM. [dropdown])

Automatic retry

Retry failed items processing: 3 [dropdown] times

Wait **before each retry attempt for:** 10 [dropdown] minutes

Backup window

Terminate job if it exceeds allowed backup window [Window...]

If the job does not complete within allocated backup window, it will be terminated to prevent snapshot commit during production hours.

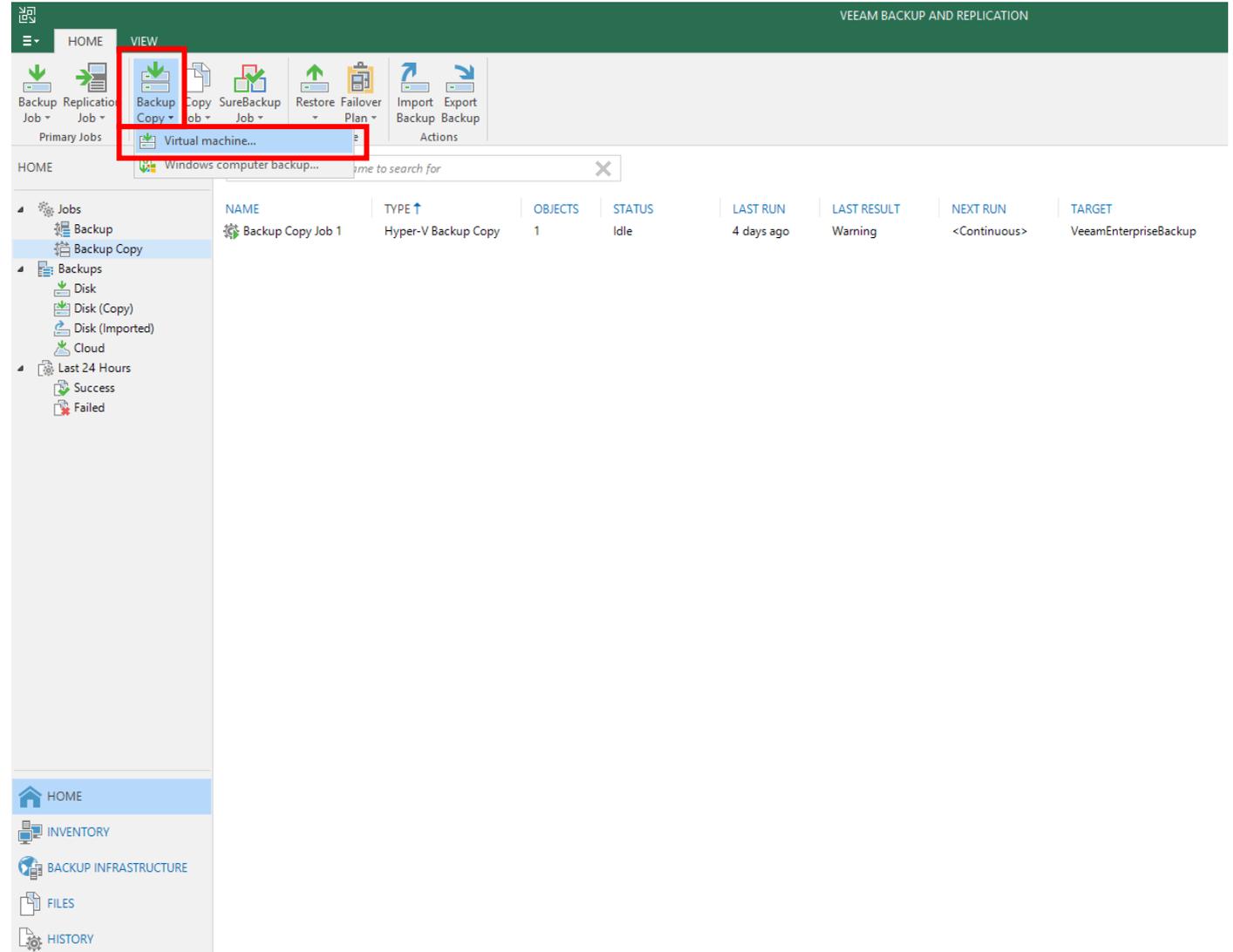
< Previous **Apply** Finish Cancel

設定地端備份

將已備份至地端的JOB進行Backup Copy至雲端

透過此方式的優點

1. 第一份備份至地端穩定且效率較高
2. 第二份備份透過已備份至地端的資料網上進行Backup Copy，不占用原被備份主機的資源，可更有效運用內部資源並且對使用者的影響更小



選擇複製模式

複製模式有兩種

一、即時複製

二、週期複製

建議使用第二種週期複製，可於離峰時間進行同步，可避免於複製期間佔用網路頻寬

New Backup Copy Job

Job
Backup copy job efficiently creates local and remote copies of your backups, making it easy to maintain multiple copies of your data. Type in a name and description for the job, and specify backup copy interval.

Job

Objects

Target

Data Transfer

Schedule

Summary

Name: Backup Copy Job 2 備份複製排程名稱

Description: Created by FSLAB\administrator at 1/28/2021 5:39 PM.

Copy mode:

Immediate copy (mirroring)
Copies every restore point as soon as it appears in the primary backup repository. This mode will copy all backups created by selected backup jobs, including transaction log backups.

Periodic copy (pruning)
Periodically copies the latest available restore point only. This mode also allows for selecting which backups to process, enabling you to further reduce bandwidth usage.

Copy every: 7 days starting at 12:00 AM

< Previous Next > Finish Cancel

設定要進行Backup Copy要用的JOB

New Backup Copy Job

Objects
Add objects to the job. Consider using containers (such as backup jobs, or infrastructure folders) for dynamic selection scope. No matter how you choose to select objects, the job will always get object data from the existing backups files.

Job

Objects

Target

Data Transfer

Schedule

Summary

Objects to process:

Name	Type	Size	
			Add...
			Remove
			From infrastructure...
			From backups...
			From jobs...
			Up
			Down
			Recalculate
			Total size: 0 B

< Previous Next > Finish Cancel

Select Jobs

Select Jobs

Jobs

- 2UBackupVm
- BackupAzureDomainAutomationLinuxDev
- BackupAzureDomainAutomationWindowsDev
- Backup-Johnny-LAB-DC
- Backup-Johnny-LAB-EXG01
- Backup-Johnny-LAB-EXG02
- BackupLab_L1
- BackupPersonalComputer
- ZimbraMailServer

Type in an object name to search for

OK Cancel

選擇已存在的JOB

設定保留天數以及儲存空間選擇雲端位置

New Backup Copy Job

Target
Specify the target backup repository, number of recent restore points to keep, and the retention policy for full backups. You can use map backup functionality to seed backup files.

Job

Objects

Target

Data Transfer

Schedule

Summary

Backup repository:
TESTH (Cloud repository) 選擇雲端儲存空間(Cloud Repository)
0.97 TB free of 1.00 TB Map backup

Restore points to keep: 7 設定保留還原點數量

Keep the following restore points as full backups for archival purposes

Weekly backup: 4 Saturday Schedule...

Monthly backup: 0 First Sunday of the month

Quarterly backup: 0 First Sunday of the quarter

Yearly backup: 0 First Sunday of the year

Read the entire restore point from source backup instead of synthesizing it from increments

Advanced settings include health check and compact schedule, notifications settings, and automated post-job activity options. Advanced

< Previous Next > Finish Cancel

設定資料傳輸方式

New Backup Copy Job

 **Data Transfer**
Choose how object data should be transferred from source to target backup repository.

如無特別需求下一步即可

Direct
Object data will be sent directly from source to target repository. This mode is recommended for copying backups on-site, and off-site over a fast connection.

Through built-in WAN accelerators
Object data will be sent to target repository through WAN accelerators that must be deployed in both source and target sites. This mode provides for significant bandwidth savings.

Source WAN accelerator:
WIN-DELLVEEAMVM (Created by FSLAB\administrator at 12/5/2019 7:15 PM.)

Target WAN accelerator:
Service Provider's WAN Accelerator (Available)

< Previous **Next >** Finish Cancel

設定備份時段

如右圖設定1-5 Disable，
也就是只會於六、日進行備份複製的動作，
如無任何需求建議就使用Any Time避免
因設定導致沒有正常備份

New Backup Copy Job

Schedule
Specify when this job is allowed to transfer data over the network. Backup copy jobs run continuously, starting data transfers according to copy interval and/or as the new object restore points appear.

Job
Objects
Target
Data Transfer
Schedule
Summary

This job can transfer data:
 Any time (continuously)
 During the following time periods only:

12 • 2 • 4 • 6 • 8 • 10 • 12 • 2 • 4 • 6 • 8 • 10 • 12

All	12	2	4	6	8	10	12	2	4	6	8	10	12
Sunday	Enable												
Monday	Disable												
Tuesday	Disable												
Wednesday	Disable												
Thursday	Disable												
Friday	Disable												
Saturday	Enable												

Monday through Friday from 12:00 AM to 11:59 PM

Enable
 Disable

< Previous Apply Finish Cancel



讓自由系統陪伴您成長，共同打造IT績效
IT is not an issue, call us!



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