

AG	ENDA
1	• VEEAM OVERVIEW
2	• การดิดตั้ง Veeam Backup and Replication
3	• การสร้าง Storage เข้ามาใน Veeam
4	• การเชื่อมต่อ vCenter, ESX and Physical Serverเข้ามาใน Veeam
5	• การสร้าง Backup job เพื่อ Backup เครื่อง VM
6	• การสร้าง Backup job เพื่อ Backup เครื่อง Physical
7	• การ Restore VM
8	• การ Monitor









3. ขั้นตอน P	rovide License คลิกปุ่ม Browse เพื่อเลือกไฟล์ License (.lic) สำหรับสิทธิ์
การใช้งานโบ	ไรแกรม จากนั้นคลิกปุ่ม Next
	Weam Backup & Replication Setup       — X         Provide License       Image: Comparison of the for Veeam Backup & Replication.         License file for Veeam Backup & Replication:       Image: Browse         F you don't have a license, just click Next to install the Community Edition.       Image: Browse         Veeam EULA prohibits using Community Edition to provide any services to third paties. In particular, you may not install, configure or manage such servers at your client's environment as a consultant or an MSP.         < Back



5. ขั้นตอน System Configuration Check จะมีการเช็คโปรแกรมต่างๆ ที่จำเป็นต้องใช้งานร่วมกัน
กับ Veeam เช่น Microsoft SQL Server หรือ Microsoft PowerShell หากขาดโปรแกรมไหนไปจะ
ขึ้นสถานะว่า Failed ให้เราติดตั้งโปรแกรมเหล่านี้ให้เรียบร้อยก่อนโดยคลิกปุ่ม Install

2	Veeam Backup & Replication Setup	-		×
\$ V	System Configuration Check enfication of your system for potential installation problems.			迥
	Requirement		Status	
	Microsoft System CLR Types for SQL Server 2014		🔀 Failed	
	Microsoft SQL Server 2014 Management Objects	(	🔀 Failed	
	Microsoft Report Viewer Redistributable 2015	(	🔀 Failed	
	Microsoft PowerShell v5.1		🕗 Passed	
	Microsoft Universal C Runtime		Passed	
	Microsoft .NET Core Runtime 3.1.10		🕄 Failed	
	Microsoft ASP.NET Core Shared Framework 3.1.10	(	🕄 Failed	
	Your computer does not meet minimum requirements. It Click the "Install" button to deploy missing features.	all	Re-cheo	:k
	< Back Ne	xt >	Cano	el

6. เมื่อโปรแก	ารมต่างๆ ถูกติดตั้งครบแล้ว (Status จะเป็น P	assed ทั้งหมด) ให้คลิกปุ่ม Next
	図 Veeam Backup & Replication Setup System Configuration Check Verfication of your system for potential installation problems.	
	Requirement           Microsoft System CLR Types for SQL Server 2014           Microsoft SQL Server 2014 Management Objects           Microsoft Report Viewer Redistributable 2015           Microsoft PowerShell V5 1           Microsoft Universal C Runtime           Microsoft ASP: NET Core Shared Framework 3.1.10	Status Passed Passed Passed Passed Passed Passed Passed
	< Back	Re-check Next > Cancel

7. ขั้นตอน Default Cor ให้รอจนกว่าการติดตั้งจ	nfiguration คลิกปุ่ม Install โปรแกรมก็จ: ะเสร็จเรียบร้อย	จะเริ่มติดตั้งลงไปในเครื่องของเรา	
謬 Veeam Backu	p & Replication Setup	- 🗆 X	
Default Con Click Install to dep the check box be	figuration loy Veeam Backup & Replication with the default configuration settings, ow to customize them on the following wizard steps.	s, or select 巴山	
Configuration set	ings:		
Installation folde	r: C:\Program Files\Veeam\Backup and Replication\	^	
Write cache fold	er: D:\ProgramData\Veeam\Backup\IRCache		
Guest catalog fo	lder: D:\VBRCatalog		
Catalog service	port: 9393		
Service account	LOCAL SYSTEM		
Service port:	9392		
Secure connect	ons port: 9401		
RESTful API Se	vice Port: 9419	~	
Let me speci	y different settings		
	< Back Install	Cancel	



9. การเปิดโปรแกรมร	กำได้โดยดับเบิ้ลคลิกไอคอน Veeam Backup & Replication แล้วคลิกปุ่ม Connect
	Image: Connect With     Incalhost   Inca





Appendix Mathematical Sector Sec	Q. frace is an adjust numer to assume for mores ↑ frace. The Describencing Reporting Visitations.	Waren Encloy and Replicator	Censury free Used Space Description 318 519 08 Context by Heem Richup	
ि Trentoy पुरि Bake Metrodae Policie				

2. Click ขวาเลือ	อกคำสั่ง Add b	packup reposit	ory	d Peole steen					
Add Edit Repository Tools									
Backup Infrastructure	Q. Type in an object name to s	earch for	$\times$						
Actup Provids     Actup Provids     Actup Reportance     Sum- ant Reportance     Sum- ant Reportance     Ministry Reportance     Sum- ant Reportance     Sum- ant Reportance     Sum- and Reporta	Rene 1	Type Windows	Host BACKUPSERVER_	Peth D\Backup	Capacity Free 5 TB	Used Space 5 75 01	Description 8 Created by Veeam Backup		

3. ในหน้าจอ Add B	ackup Repository เลือกชนิด Storage ในที่นี้เลือก Direct a	ttached storage
Add I Select the	Backup Repository X	
	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.	6
<b>#</b>	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 Del EMC Data Domain, ExaGnid, 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	



5. ใส่ชื่อของ Reposito New Backup Repository Neme Type in a name and d	ITY X
Name Server Repository Mount Server Review Apply Summary	Name: BackupServer01 Repository] Description: Created by BACKUPSERVER01\Administrator at 5/28/2021 10:25 AM.
	< Previous Next > Finish Cancel

6. เลือก Drive New Backup Repository Server Choose repository ser	ver. You can select server from the list of	managed servers added to the co	insole.	×	
Name	Repository server: BACKUPSERVER01 (Backup server)		~	Add New	
server Repository Mount Server Review Apply Summary	Peth ^ ^	Capacity 199.4 GB 5 TB	Free 173.8 GB 5 TB	Populate	
		< Previous Next >	Finish	Cancel	
		< Previous Next >	Finish	Cancel	

7. ใส่ P	ath และ ชื่อ Folder New Backup Repository		×	
	Repository Type in path to the fo	older where backup files should be stored, and set repository load control options.		
7	Name	Location		
/		Path to folder:		
	Server	D:\Backupserver01 Repositories	Browse	
	Repository	Capacity: <unknown></unknown>	Populate	
	Mount Server	Free space: <unknown> Load control Running too many concurrent tasks against the repository may reduce overall performance of the space of the sp</unknown>	rmance, and	
		cause I/O timeouts. Control storage device saturation with the following settings:		
	Apply	Limit maximum concurrent tasks to: 4		
	Summary	Limit read and write data rate to:		
		Click Advanced to customize repository settings.	🔅 Advanced	
		< Previous Next > Finish	Cancel	

8. Click 1	Next			
	New Backup Repository Mount Server Specify a server to mo Instant recoveries req	ount backups to when performing advanced restores (file, application item and instant VM uire a write cache folder to store changed disk blocks in.	× recoveries).	
	Name Server Repository Mount Server Review Apply Summary	Mount server: BACKUPSERVER01 (Backup server) ✓ Instant recovery write cache folder: D:\ProgramData\Vecam\Backup\\RCache\ Ensure that the selected volume has sufficient free disk space to store changed disk block recovered VMs. We recommend placing write cache on an SSD drive. Insule vPower NFS service on the mount server (recommended) Unlocks instant recovery of any backup (physical, virtual or cloud) to a VMware vSphr vPower NFS service is not used for instant recovery to a Microsoft Hyper-V VM.	Add New Browse ss of instantly Ports ere VM.	
		< Previous Next > Finish	Cancel	

9. Review	N แล้วเลือก Apply New Backup Repository Please review the setti	ings, and click Apply to continue.	;	×
	Name Server Repository Mount Server Review Apply Summary	The following components will be processed on server BACKUPSER Component name Transport vPower NFS Mount Server	VER01: Status already exists already exists already exists	
		Search the repository for existing backups and import them auto Import guest file system index data to the catalog   Previous Apply	matically Finish Cancel	

10. Review Summary	y แล้วเลือก Finish	
New Backup Repository Summary You can copy the cond Server Repository Mount Server Review Apply Summary	figuration information below for future reference.  Summany:  Windows backup repository 'BackupServer01 Repository' was successfully created.  Mount host: BACKUPSERVER01 Backup folder: DNBackupserve01 Repositories Write throughput: unlimited Max parallel tasks: 8	×
	< Previous Next > Finish Can	icel

11. Repository	
E- Henre     Exceptory function     Add Link     Repeatacy function	Verann Berdup and Replication
Manage Repeating Tests Rackop Information Rackop Information Rackop Repeations Rackop Repeations	Operation         Test         Control         Description           None         Yes         Yes         Part         Part         Control         Disclosefore         Disclosefore <t< th=""></t<>







2. เลือกชร์	ใดของ Server ที่จะเพิ่มเข้ามา Backup
	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.
	VM VMware vSphere Adds VMware private cloud infrastructure servers to the inventory.
	Microsoft Hyper-V Adds SCVMM server, Hyper-V cluster, or standalone host (2008 R2 or later) to the inventory.
	Cancel

3. ขั้นต <sub>ั</sub> แล้วคลิก	อน Name ช่อง DN เปุ่ม Next	NS name or IP address กำหนดหมายเลข IP ของ ESX ลงไป	
	New VMware Server Name Specify DNS name or	IP address of VMware server.	
	Name Credentials Apply Summary	Name: BACKUPESXI01 Description: Created by BACKUPSERVER01\Administrator at 5/28/2021 10:53 AM.	
		< Previous Next > Finish Cancel	

4. ขั้	นตอน Credentials ที่ New VMware Server Credentials	ช่อง Credentials คลิกปุ่ม Add เพื่อยืนยันสิทธิ์ในการใช้งาน ×	
	Select server adminis	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: Manage accounts	
		L≥	
		Default VMware web services port is 443. If connection cannot be established, check for possible port customization in the vCenter Server or ESXi server settings. Port: 443 +	



6.กลับมาร์ 7. หน้าต่า 8. คลิก Ap	ที่ขึ้นตอน Credenti N Security Warnin pply	als คลิกปุ่ม Next g คลิกปุ่ม Connect	
	New VMware Server Credentials Select server administr	imes rator's credentials. If required, specify additional connection settings including web-service port number.	
	Name Credentials 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: Not (root, last edited: less than a day ago)  Add  Manage accounts	
		Default VMware web services port is 443. If connection cannot be established, check for possible port customization in the vCenter Server or ESXI server settings. Port: 443 🚖	
		< Previous Apply Finish Cancel	

9	ขั้นตอน Summary ค	ดิกปุ่ม Finish			
	Edit VMware Server Apply Please wait while requ	ired operations are being performed. This may take a few minutes		×	
	<b>v</b> m	[			
3	Name	Message	Duration		
	Credentials	Starting infrastructure item update process	0:00:01		
		Creating database records for server			
1	Apply	Collecting disks and volumes info	0:00:06		
	_	VMware server saved successfully			
	summary				
				2	
		< Previous Next >	Finish	Cancel	









4. <sup>°</sup>	์ชื่อ Protection Group w Protection Group ×
	Name Type in a name and description for this protection group.       Name: Physical Protection Group   pe tive Directory clusions     Name: Physical Protection Group   Description: Created by BACKUPSERVER01\Administrator at 5/28/2021 11:42 AM.
	edentials utions uview upply mmary
	< Previous Next> Finish Cancel

5.	เลือกชนิดของเครื่อง New Protection Group <b>Type</b> Choose how you war	ที่จะ Backup nt to populate this protection group with computers.	x
	Name Type Computers Options Review Apply Summary	<ul> <li>This protection group will contain:</li> <li>Individual computers</li> <li>Static protection scope with one or more individual computers via IP address or DNS name. Recommended for smaller environments without an Active Directory.</li> <li>Microsoft Active Directory objects</li> <li>Dynamic protection scope defined by Active Directory containers such as organizational units or security groups, and exclusion rules.</li> <li>Computers from CSV file</li> <li>Dynamic protection scope defined by the content of a comma-separated values (csv) file with computer names that is hosted on a file share. Recommended for larger environments without Active Directory, or for CMDB integration.</li> <li>Computers with pre-installed agents</li> <li>This protection group will catch all computers will a backup agent deployed from a custom installation package specific to this group. Computers will appear in the protection group following their first connection to the backup server.</li> </ul>	
		< Previous Next > Finish Cancel	

Name Computers:   Type Acount   Computers Add   Options Set User   Review Image: Set User   Apply Image: Set User   Summary Image: Set User   Cick Test Now to validate the specified credentials.     Cick Test Now to validate the specified credentials.     Image: Set User     Test Now	6. NI Nev	1ด add เพื่อเพิ่มเครื่อง1 ew Protection Group <b>Computers</b> Specify computers to inclu	ที่จะเข้ามาอยู่ในกรุ๊ป ude in this protection group.		×	
Type Computer Account Add   Computers Image: Computer in the specified credentials. Set User   Options Image: Computer in the specified credentials. Image: Computer in the specified credentials.	Na	Jame Cor	mputers:			
Computers   Options   Review   Apply   Summary   Click Test Now to validate the specified credentials.	Tvi	Vpe	Computer	Account	Add	
Options   Review   Apply   Summary   Click Test Now to validate the specified credentials.     Click Test Now to validate the specified credentials.     Previous     Next >     Finish     Cancel		omputers			Set User	
Options   Review   Apply   Summary   Click Test Now to validate the specified credentials.		omputers			Remove	
Review       Apply         Summary       Image: Click Test Now to validate the specified credentials.         Click Test Now to validate the specified credentials.       Test Now	OF	Jptions		le la		
Apply         Summary         Click Test Now to validate the specified credentials.         Click Test Now to validate the specified credentials.             Yerevious       Next >       Finish       Cancel	Re	eview				
Summary Click Test Now to validate the specified credentials.  Click Test Now to validate the specified credentials.	Ар	pply				
Click Test Now to validate the specified credentials.  Click Test Now to validate the specified credentials.  Click Test Now Test Now  Cancel	Su	ummary				
Click Test Now to validate the specified credentials.  C Previous Next > Finish Cancel						
Click Test Now to validate the specified credentials.						
Click Test Now to validate the specified credentials.						
Click Test Now to validate the specified credentials.						
< Previous Next > Finish Cancel		Clic	ck Test Now to validate the specified credentia	als.	Test Now	
			< Prev	ious Next > Finish	Cancel	

New Protection Grou	p rs omputers to include in this protection group.	×
Name Type	Computers: Computer Account	Add
Computers Options	Host name or IP address:	Set User Remove
Review Apply	Credentials:	
Summary	Manage accounts	
	Click Test Now to validate the specified credentials.	Test Now
	< Previous Next > Finish	Cancel

8. ใส่	Host name หรือ IP พร้อมทั้งกด Add เพื่อใส่ Credential	
New I	Protection Group Computers Specify computers to include in this protection group.	×
Nam Type	e Add Computers	Add Set User
Opti	Host name or IP address: ions iew Credentials:	Remove
Appi Sum	hy Add Manage accounts OK Cancel	
	Click Test Now to validate the specified credentials.	Test Now inish Cancel

9. หลังจากใส่แห 	ล้วรายชื่อเครื่องจะแสดงออก	เมา	¥	
Computers Specify cor	s nputers to include in this protection group.			
Name	Computers:			
Туре	Computer 192.168.10.37	Account vmbackup01	Add	
Computers	192.168.10.38	vmbackup01	Demour	
Options	192.100.10.39	Viribackupor	Kemove	
Review				
Apply				
Summary				
		2		
	Click Test Now to validate the sp	ecified credentials.	Test Now	
		< Previous Next > Fin	sh Cancel	

10. เลือกช่วงเว New Protection Grov <b>Options</b> Specify H	เลาที่จะให้ Veeam ค้นหาก่อนทำการ backup .p ×	
Name	Discovery	
Туре	Rescan protection group every:      Daily at this time:     The third protection of the the third protection of the third prot	
Computers	O Periodically every: 1 V Hours Schedule	
Options	Deployment	
Review	Distribution server:	
	BACKUPSERVER01 (Backup server)	
Apply	Protected computers will download backup agent redistributable from this server.	
Summary	Install backup agent automatically (recommended)	
	🗹 Auto-update backup agent	
	Install changed block tracking driver on Windows Server OS	
	Perform reboot automatically if required	
	Customize advanced protection group settings such as e-mail notifications.	
	< Previous Next > Finish Cancel	

11. Review Setting	แล้วกด Apply		
New Protection Group Review Review the settings, a	ind click Apply to continue.	×	
Name Type Computers Options Review Apply Summary	The following components will be processed on BACKUPSERVER Component name Transport Veeam Distribution Service Veeam Agent for Microsoft Windows Redistributable	01: Status already exists will be installed already exists in the installed in the ins	
	< Previous Appl	y Finish Cancel	

12. หลังจากกด A	งpply จะทำการ Install package		
New Protection Group		×	
Apply Please wait w	while we are installing and configuring required components, this may take a few minutes.		
Name	Message	Duration	
Ture	Starting infrastructure item update process	0:00:02	
lype	Openloving distribution service		
Computers	IBACKUPSERVER011 Connecting to Veeam Installer service		
computers	IBACKUPSERVER011 Discovering installed packages		
Options	IBACKUPSERVER011 Creating temporary folder		
	Package VeeamDistributionSvc.msi has been unloaded		
Review	IBACKUPSERVER011 Installing package Veeam Distribution Service	0:00:03	
	IBACKUPSERVER011 Deleting temporary folder		
Арріу	IBACKUPSERVER011 Registering client BACKUPSERVER01 for package Transp.		
Summary	IBACKUPSERVER011 Registering client BACKUPSERVER01 for package Veeam		
sammary	IBACKUPSERVER011 Registering client BACKUPSERVER01 for package Veeam		
	IBACKUPSERVER011 Discovering installed packages		
	All required packages have been successfully installed		
	Creating configuration database records for installed packages		
	Creating database records for protection group		
	- creating address records for protection group		
	< Previous Next > Finish	Cancel	

1.	3. MA FINISN		
	New Pertention Course	~	
	New Protection Group	^	
	Protection group settin	igs have been saved successfully. Click Finish to exit the wizard.	
	Name	Summary:	
	Type	Physical Protection Group was successfully created.	
	-76-		
	Computers		
	Options		
	Review		
	Apply		
	Summary		
		Kun discovery when I click Finish	
		< Previous Next > Finish Cancel	



	1. เลือก New VM Backup Job
2011 2- 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1	Home     Year       Home     Year       Home     Year       Here     Pelicy       Pelicy     Copy       Fail     Pelicy       Copy     Failer       Windows     Computer- Linac computer- Linac computer- Failer       Here     Windows       Failer     Type       Objects     Status       Last Result     Nest Run       Target
* *	Here Investory Bockup Infrastructure Storge Infrastructure Tage Infrastructure Files

2	ใส่ชื่อ Job Name New Backup Job <b>Name</b> Type in a name and d	escription for this backup job.	
	Name Virtual Machines Storage Guest Processing Schedule Summary	Name: Backup Job 1 Description: Created by BACKUPSERVER01\vmbackup01 at 6/5/2021 10:20 AM.	
		High priority Backup infrastructure resources are offered to high priority jobs first. Use this option for jobs sensitive to the start time, or jobs with strict RPO requirements.	
		<pre>     Prevouus     Vvex     Priss     Cancel     Ca</pre>	

3. กด Add เพื่อเลือก	Virtual Machine ที่จะ Ba	ckup			
 New Backup Job				×	
Virtual Machines Select virtual machines as you add new VM int	to process via container, or granularly. Co o container.	ntainer provides dynamie	selection that autor	matically changes	
Name	Virtual machines to backup:		1 1		
Virtual Machines	Name	Туре	Size	Add	
Storage				Remove	
Guest Processing				Exclusions	
Schedule				★ Up	
Summary				<b>↓</b> Down	
				Recalculate	
				Total size: 0 B	
		< Previous Next >	Finish	Cancel	

Add Objects       Image: Control of the second	4 เลือก '	/irtual Machine ที่จะ Backup		
Select objects:       Image: Comparison of the comparison of t		Add Objects	×	
*• Type in an object name to search for     Q       Add     Cancel		Select objects:         > Image: Test and Clusters         > Image: Test Test and Clusters         > Image: Test Test Test Test Test Test Test Test	N 📳 🛱 불 🖋 🐲	
Add Cancel		★ Type in an object name to search for	Q	
			Add Cancel	

5. กด Next				
New Backup Job	Machines			×
Select v as you a	rtual machines to process via container, or gran idd new VM into container. Virtual machines to backup:	ularly. Container provides dyi	namic selection that a	utomatically changes
	Name	Туре	Size	Add
Virtual Machines	alro ha	Cluster	7.08 TB	Remove
Storage	192.168.10.75	Host	687 GB	
	192.168.10.212	Host	1.98 TB	
Guest Processing				Exclusions
Schedule				
				<b>↑</b> Up
Summary				<b>↓</b> Down
				Recalculate
				Total size: 9.73 TB
		< Previous N	lext > Finish	Cancel

6. เดือก Backup <sub>New Backup Job</sub>	Repository และ กำหนด Retention Policy แล้วกด Next ×
Storage Specify proc job and cust	essing proxy server to be used for source data retrieval, backup repository to store the backup files produced by this omize advanced job settings if required.
Name Virtual Machines Storage Guest Processing Schedule Summary	Backup proxy: VMware Backup Proxy Backup Proxy Choose Backup repository: BackupServer01 Repository (Created by BACKUPSERVER01\vmbackup01 at 6/5/202 \ The second secon
	Advanced job settings include backup mode, compression and deduplication, block size, notification settings, automated post-job activity and other settings.

7 .กำหนด Optior New Backup Job <b>New Backup Job</b> <b>Choose gues</b>	า บน VM ssing t OS processing options available for running VMs.	×
Name Virtual Machines	Enable application-aware processing Detects and prepares applications for consistent backup, performs transaction logs pro configures the OS to perform required application restore steps upon first boot.	ocessing, and
Storage	Enable guest file system indexing	ppications
Guest Processing	Creates catalog of guest files to enable browsing, searching and 1-click restores of indi- Indexing is optional and is not required to perform instant file level recoveries.	vidual files.
Schedule	Customize advanced guest file system indexing options for individual machines	Indexing
Summary	Guest interaction proxy:	
	Automatic selection	Choose
	Guest OS credentials:	
		Add
	Manage accounts	and a state
	Customize guest US credentials for individual machines and operating systems	recentials
	Verify network connectivity and credentials for each machine included in the job	Test Now
	< Previous Next > Finish	Cancel

8	. กำหนดวันและเวลา New Backup Job Schedule Specify the job sched	ในการ Backup Juling 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:       ● 00 PM ♀ Fourth ♥ Saturday ♥ Months         ○ Monthly at this time:       10:00 PM ♀ Fourth ♥ Saturday ♥ Months         ○ Periodically every:       1 ● Hours ♥ Schedule         ○ After this job:       ●         ✓ Automatic retry       ●         ☑ Retry failed items processing:       3 ⊕ times         Wait before each retry attempt for:       10 ⊕ minutes         Backup window       If the job does not complete within allocated backup window, it will be terminated to prevent snapshot commit during production hours.       Window	
		< Previous Apply Finish Cancel	

9. กด Finish	
New Backup Job × Summary The job's settings have been saved subcessfully. Click Finish to exit the wizard.	
Name     Summary:       Name:     Backup Job VM       Targe Path: D:Backup/Serve01 Repository       Storage     ALRO HA (10.28)       Guest Processing     192.168.10.75 (192.168.10.212)       Schedule     Command line to start the job on backup server:       "C:\Program Files\Veeam\Backup Al05-beef-9181084470af	
Run the job when I click Finish	
< Previous Next > Finish Cancel	

10. 4	จะแสดงชื่อ Job ที่สร้างไว้				
E- Home View Bactup Replication COP Job - Folkey	Backup Copy Falover Palover Imne Backup	Veeam Backup and Replication			
Primary Jobs Home	Auxiliary Jobs Restore Actions	X X All jobs			
<ul> <li>♥ Jobs</li> <li>₩ Backup</li> <li>(@ Lest 24 Hours</li> <li>(&gt; Success</li> </ul>	Name † Type	Objects Status Last Run schup 3 Stopped	Last Result Next Run 6/5/2021 6:00 PM	Target BackupServer01 Repository	
Image: Strange Lange         Image: Lange Lange			Þ		



1. เลือก New W	Vindows Computer Backu	ıp Job				
≌र ≣- Home View		Veeam Backup and Replication				
Backup Replication CDP Beckup Capy - Job - Pairs Job - Job - Pairs Capy - Job - Pairs Withut machine	n - Actions					
Windows computer  Linux computer	Q. Type in an object name to search for	×				
Marc of Merc Windows Computer Backup Ao Text Computer Level and Windows Computer B Computer Level And Compu	19 Type Isoclup job. Iso VM VMware Backup	Objects Status 3 Stopped	Last Run Last Result	NettRun 6/5/2021 8:00 PM	Target BackupServer01 Repository	
A Home						
Inventory						
Cage Backup Infrastructure						
Tape Infrastructure						
Files						

D	2. ระบุชนิดของ Server ที่จะ Backup
	New Agent Backup Job     An Mode   Sor Mode   Name   Computers   Backup Mode   Storage   Guest Processing   Schedule   Schedule   Summary     Managed by Jackup server   Managed by Jackup server   Managed by Jackup server schedules and executes backups on the protected computers. This mode is recommended for workstations and servers located in remote sites with poor content with performance in the sackup server schedules and executes backups on the protected computers. This mode is recommended for workstations and servers located in remote sites with poor content with performance in the sackup server, such as as a server so coluster locate enter.
	< Previous Next> Finish Cancel

	3. ใส่ชื่อ Job Name		
7	New Agent Backup Job           Name           Type in a name and dest	cription for this agent backup job.	×
	Job Mode Name Computers	Name: Agent Backup Job 1 Description: Created by BACKUPSERVER01\vmbackup01 at 6/5/2021 6:15 PM.	
	Backup Mode Storage Guest Processing		
	Schedule Summary		
		High priority     Backup infrastructure resources are offered to high priority jobs first. Use this potion for jobs sensitive	to
		the start time, or jobs with strict RPO requirements.           < Previous         Next >         Finish         Cancel	

4. กด Add และเลือก Pr New Agent Backup Job <b>Computers</b> Select protection group updates the list of prote	rotection Group เพื่อเลือกเครื่องที่จะ Ba s or individual machines to back up. Protection groups prot cted machines as new ones are discovered.	CKUP ride a dynamic selection scope that	× automatically		
Job Mode	Protected computers:				
Name	Name	Туре	Add Protection gro	Target	
Computers			Individual cor	mputer	
Backup Mode					
Storage					
Guest Processing			✿ Up		
Schedule			+ Down		
Summary					
	< Previou:	i Next > Finish	Cancel		

5. เลือก Protect	ion Group ที่เราจะทำการ Backup Select Objects	×	
	Celest ebieste	1	
	Select objects: Protectic computers GISDB GISDB GISPORTAL GISPORTAL GISPORTAL GISPORTAL GISPORTAL GISPORTAL GISPORTAL GISPORTAL GISPORTAL		
		L&	
	★ Type in an object name to search for	Cancel	

6. r	na Next				_
	New Agent Backup Job Computers Select protection group updates the list of prote	s or individual machines to back up. Protection group cted machines as new ones are discovered. Protected computers:	s provide a dynamic selecti	ion scope that automatically	
	Name	Name	Туре	Add	
	Computers	Physical Protection Group	Protec	ction g Remove	
	Backup Mode				
	Storage				
	Guest Processing			✿ Up	
	Schedule			◆ Down	
	Summary				
		< Pro	evious Next >	Finish Cancel	

7. ú	ลือกชนิดของ Data ที่จะา	ทำการ Backup	
	New Agent Backup Job Backup Mode Choose what data you	want to backup from selected computers.	×
	Job Mode Name Computers Backup Mode Storage Guest Processing Schedule Summary	<ul> <li>Entire computer Back up entire computer image for fast recovery on any level. Deleted, temporary and page files are automatically excluded from the image to reduce the backup size.</li> <li>Olume level backup Back up images of specified volumes, for example only data volumes. Deleted, temporary and page files are automatically excluded from the image to reduce the backup size.</li> <li>File level backup (slower) Back up indirectories only. This mode still produces an image-based backup, but only with protected file system objects included in the image.</li> </ul>	65
		< Previous Next > Finish Cance	

8. LA®IN Backup Repository 내유는 Retention New Agent Backup Job × Storage Specify backup repository to store the backup files produced by this job and customize advanced job settings if required.	
Job Mode Backup repository:	
BackupServer01 Repository (Created by BACKUPSERVER01\vmbackup01 at 6/5/2021 10.12 AM.) V	
🚆 11.9 TB free of 11.9 TB Map backup	
Computers Retention policy: 7 💮 days 🗸	
Backup Mode Keep certain full backups longer for archival purposes Configure	
Storage GFS retention policy is not configured	
Guest Processing Configure secondary destinations for this job	
Copy backups produced by this job to another backup repository, or tape. We recommend to make at least one copy of your backups to a different storage device that is located off-site.	
Summary	
Advanced job settings include backup mode, compression and deduplication, block size, notification settings, automated post-job activity and other settings.	

91	เลือก Application Optic New Agent Backup Job Guest Processing Choose application pr	DN ocessing options.	
	Job Mode Name Computers Backup Mode Storage Guest Processing Schedule	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     Enable guest file system indexing     Crates 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.	
	Summary		
		< Previous Next > Finish Cancel	

10. กำห	นด วัน และ เวลาที่จะ B New Agent Backup Job <b>Schedule</b> Specify the scheduling	aCkup x	
	Job Mode Name Computers Backup Mode Storage Guest Processing Schedule	<ul> <li>✓ Run the job automatically</li> <li>● Daily at this time:          <ul> <li>● Daily at this time:</li> <li>● Monthly at this time:</li> <li>● Periodically every:</li> <li>● Hours</li> <li>● After this job:</li> <li>Backup Job VM (Created by BACKUPSERVER01\vmbackup01 at 6/5/2021 10 </li> </ul> </li> <li>Automatic retry</li> <li>✓ Retry failed items processing:</li> <li>3 ÷ times</li> <li>Wait before each retry attempt for:</li> <li>10 ÷ minutes</li> </ul>	
	Summary	Backup window Window. Window.	

11	ng Finish
	Yew Agent Backup Job     X       Summary     The job's settings have been saved successfully. Click Finish to exit the wizard.
	Job Mode Summary: Name Agent Backup Job 1 Description: Created by BACKUPSERVER01\vmbackup01 at 6/5/2021 6:15 PM. Type: server Mode: managed by backup server Mode: managed by backup server Mode: managed by backup server Protect computer: Proprial Protection Group Partial Protection Group Partial Protection Group Partial Protection Group Backup mode entire computer: Destination: Vecam backup repository Target storage BackupSerer01 Repository Retention policy: 7 days Backup is scheduled to run automatically GFS retention policy: not set Summary
	Run the job when I click Finish <previous next=""> Finish Cancel</previous>

11. จะแสดงขึ	ื่อ Job ที่สร้างไว้							
Image: State Stop     Active       State Stop     Retry       Active     State Stop	Edit Clone Disable Delete			Veeam Backuj	p and Replication	n		
Job Control Details	Manage Job Q. Type in an object name	to search for		×				
<ul> <li>Modes</li> <li< th=""><th>Name J # Backup Job VM # Agent Backup Job</th><th>Type Viðware Backup Windows Agent Backup</th><th>Objects 3 1</th><th>Status Stopped Stopped</th><th>Last Ru</th><th>un Last Result</th><th>Next Run 6/5/2021 8:00 PM 6/5/2021 7:00 PM</th><th>Target BackupServer01 Repository BackupServer01 Repository</th></li<></ul>	Name J # Backup Job VM # Agent Backup Job	Type Viðware Backup Windows Agent Backup	Objects 3 1	Status Stopped Stopped	Last Ru	un Last Result	Next Run 6/5/2021 8:00 PM 6/5/2021 7:00 PM	Target BackupServer01 Repository BackupServer01 Repository
Home  Wentory  Backup Infrastructure  Storage Infrastructure  Tape Infrastructure  Tape Infrastructure  Files								

2	12	. จะแสดงชี่ย	อ Job ที่สร้างไว้								
7	ਗ੍ਰਿਸ਼ ≣∗ Home View	Jab Taols Job				Veeam Backi	up and Replication				
	Start Stop Retry Active	Statistics Report	Edit Clone Disable Delete								
/	Job Control	Details	Manage Job								
	Home		Q Type in an object name	t to search for		×					l
	a 🖏 Jobs		Name 4	Туре	Objects	Status	Last Run	Last Result	Next Run	Target	
	提 Backup		爺 Backup Job VM	VMware Backup	3	Stopped			6/5/2021 8:00 PM	BackupServer01 Repository	
	∑ Success						₹.				
	A Home										
	Inventory										
	Backup Infrastructure										
	Storage Infrastructure										
	Tape Infrastructure										
	Files										





2. CIICK 1971	Guest ทจะ Restore เลอก Restor	e Entire VM		
记 Backup Tools 로- Home Backup		Veeam Baci	kup and Replication	
Instant Instant Disk Entire Virtual VM Gues Recovery Recovery VM Disks Files Files Restore	Application Items - Ec2 Azur Restore to Cloud			
Home	Q. Type in an object name to search for	×		
▲ 🐁 Jobs 😹 Backup ▲ 🔚 Backups		Creation time 6/6/2021 7:00 PM 6/6/2021 7:00 PM	Restore points Repository Platform	
	Backup Job VM     Backup Job     Backup Job     D	6/5/2021 8:00 PM 6/6/2021 1:39 PM	BackupServer01 Repository VMware	
A Home	DNS TEST	6/6/2021 1:39 PM 6/6/2021 1:39 PM	Instant Recovery	
Real Inventory	DNS02-DC Kumrong_App LIS_App	6/6/2021 1:39 PM 6/6/2021 1:39 PM 6/6/2021 1:39 PM	Restore entire VM  Restore virtual disks	
Storage Infrastructure	읍 Rep_ALRO_D8 읍 Server_Test 읍 SharePoint	6/6/2021 1:39 PM 6/6/2021 1:39 PM 6/6/2021 1:39 PM	Restore VM files Restore guest files	
Can Tape Infrastructure	🚰 Test_Antivirus 🚰 testND 🊰 Veeam_Backup_Alro	6/6/2021 1:39 PM 6/6/2021 1:39 PM 6/6/2021 1:39 PM	Restore to Amazon EC2       Restore to Microsoft Azure       Export backup	

3. Click Next					
Full VM Restore Virtual Machines Select virtual machine environment (contain	es to be restored. You can ad ners will be automatically exp	d individual virtua anded into plain V	machines from backup files, or conta M list).	×	
Virtual Machines	Virtual machines to restore	e or instant lookup			
Restore Mode Secure Restore	Name	Size	Restore point	Add	
Reason	DNS TEST	80 GB	less than a day ago (12:42 PM	Point	
Summary				Remove	
		< }	Previous Next > Finish	h Cancel	

4. เลือก Restore Mo	de	1
Restore Mode		
Specify whether sele	cted VMs should be restored back to the original location, or to a new location or with different settings.	
Virtual Machines	Restore to the original location     Output to the original location	
Restore Mode	settings. This option minimizes the chance of user input error.	
Secure Restore	O Restore to a new location, or with different settings Customize the restored VM location, and change its settings. The wizard will automatically populate all centrals with the setting VM defaults as the advantage.	
Reason Summary	all controls with the original VM settings as the defaults. O Staged restore Run the selected VM directly from backup files in the isolated DataLab to make changes to the guest OS or applications prior to placing the VM into production environment. Pick proxy to use	
	Quick rollback (restore changed blocks only) Allows for quick VM recovery in case of guest OS software problem, or user error. Do not use this option when recovering from disaster caused by hardware or storage issue, or power loss.	
	< Previous Next > Finish Cancel	

4	Click next Full VM Restore × Reason Type in the reason for performing this restore operation. This information will be logged in the restore sessions history for later reference.
	Restore reason:       Restore Mode       Secure Restore
	Do not show me this page again <pre></pre>





1. 601 DISK	แลวเลอก Guest ทจะ Restore				
词 Backup Tools 王• Home Backup		Veeam Back	up and Replication		
Properties Remove from * Backup					
Home	Q. Type in an object name to search for	×			
▲ 🐐 Jobs Har Backup ▲ 🔐 Backups M Disk	Job name 1 Sob na	Creation time 6/5/2021 7:00 PM 6/6/2021 7:00 PM 6/6/2021 7:00 PM	Restore points	Repository BackupServer01 Repository	Platform Windows
▲ Cill Last 24 Hours Cill Success Cill Failed		6/5/2021 I:30 PM 6/6/2021 I:39 PM	3 1 1 1 1 2 2	BackupServer01 Repository	VMware
A Home	Demo_ALRO_App	6/6/2021 1:39 PM 6/6/2021 1:39 PM	1 2		
Inventory	DNS01-DC	6/6/2021 1:39 PM 6/6/2021 1:39 PM	2 2		
Storage Infrastructure	급 Kumrong App 급 LIS App 급 Rep_ALRO_DB	6/6/2021 1:39 PM 6/6/2021 1:39 PM 6/6/2021 1:39 PM	1		
Tape Infrastructure	Server_Test	6/6/2021 1:39 PM 6/6/2021 1:39 PM 6/6/2021 1:39 PM	1 2 2		



	4. เลือก Restore Mode		
	Full VM Restore Restore Mode Specify whether sele	cted VMs should be restored back to the original location, or to a new location or with different settings.	×
/	Virtual Machines Restore Mode	<ul> <li>Restore to the original location</li> <li>Quickly initiate the restore of selected VM to its original location, with the original name and settings. This option minimizes the chance of user input error.</li> </ul>	
	Host Resource Pool	Restore to a new location, or with different settings     Customize the restored VM location, and change its settings. The wizard will automatically populal     all controls with the original VM settings as the defaults.	te
	Datastore Folder	<ul> <li>Staged restore Run the selected VM directly from backup files in the isolated DataLab to make changes to the guest OS or applications prior to placing the VM into production environment.</li> </ul>	
	Network Secure Restore	Pick proxy to use	
	Reason		
	Junnary	<ul> <li>Quick rollback (restore changed blocks only)</li> <li>Allows for quick VM recovery in case of guest OS software problem, or user error. Do not use this option when recovering from disaster caused by hardware or storage issue, or power loss.</li> </ul>	
		< Previd	1

Full VM Restore Resource Poo By default, ori desired VM an	l ginal resource pool is selected as restore desti d clicking Pool. Use multi-select (Ctri-click ar	nation for each VM. You can change resource pool by nd Shift-click) to select multiple VMs at once.	X
Virtual Machines	VM resource pool:		
Restore Mode	Name	Resource Pool	
Host		- Addreed	
Resource Pool			
Datastore			
Folder			
Network			
Secure Restore			
Reason			
Summary			
	Select multiple VMs and click Pool to	o apply changes in bulk.	Pool
		< Previous Next > Finish	Cancel

5. เลือก Datasto Full VM Rest	e			, ,	~
Virtual Machi	default, original datastore and disk type are selected king Datastore or Disk Type. Use multi-select (Ctrl- nes Files location: File	for each VM lick and Shift- Size	iile. You can change them by se click) to select multiple VMs at Datastore	lecting desired VM file, and once. Disk type	
Restore Mode	DNS TEST     Configuration files	00 CB	datastore1 [924.5 GB free]		
Resource Poo	I Hard disk I (DNS 1	00 08	datastoren (924.3 GB fréej	same as source	
Folder					
Network Secure Restor	e				
Reason					
Summary					
	Select multiple VMs to apply se	ttings in bulk.	Da	Disk Type	
		< P	revious Next >	Cancel	

6. ใส่ชื่อ G Full VM Virtual Restore	นest ที่ต้องการ Restore By default, original VM fold clicking Folder. Use multi-s Machines Machines	er is selected as restore destinat slect (Ctrl-click and Shift-click) Folder: me DNG TET	ion for each VM. You can change fo to select multiple VMs at once. New Name	Fo	r by selecting desired VM and older	
Host Resour Datasto Folder Networ Secure Resson Summe	rce Pool ore rk Restore ary Sei	Change Name Specify how selected VM nam Set name to: DNS TEST Add prefix new_ Add suffix restored Restore VM tags Select this option to restore VM	OK Cancel	×	Name Folder	
			< Previous Next >		Finish Cancel	

500					
	6. Click Next				
	Full VM Restore			×	
	Folder By default, orig clicking Folder.	inal VM folder is selected as restor Use multi-select (Ctrl-click and Sl	e destination for each VM. You can cha ift-click) to select multiple VMs at onc	nge folder by selecting desired VM and e.	
	Virtual Machines	VM Folder:			
	Portoro Modo	Name	New Name	Folder	
	Restore Mode	DNS TEST	DNS TEST_Restore	vm	
	Host				
	Resource Pool				
	Datastore				
	Folder				
	Network				
	Secure Restore				
	Reason		2		
	Summary	Select multiple VMs to ap	ply settings change in bulk.	Name Folder	
		Restore VM tags Select this option to re	store VM tags that were assigned to the	e VM when backup was taken.	
			< Previous Next	:> Finish Cancel	
					_

7.1	เลือก Network			
	Full VM Restore			×
	Network By default, we will co	onnect the restored VM to the same virtual networks a	is the original VM. If you are restoring to a differen	t
	location, specify now	networks map between original and new locations.	63	
	Virtual Machines	Network connections:		
/	Restore Mode	Source     A DNS TEST	larget	
	Host	S VM Network	VM Network	
	Resource Pool			
	Datastore			
	Folder			
	Network			
	Secure Restore			
	Reason			
	Summary			-
		Select multiple VMs to apply settings change in bu	Network Disconne	ct
		< Previo	us Next > Finish Cancel	

2	8. Click Finish Full VM Restore Summary Review the restore settings	and click Finish to start the restore process. $\hfill \qquad $	
	Virtual Machines Sum Restore Mode Ne Host Tata Resource Pool Tata Datastore Folder See Folder Secure Restore Reason Summary	nmary: iginal machine name: DNS TEST w machine name: DNS TEST, Restore store point: less than a day ago (12-42 PM Sunday 6/6/2021) irget host: 1920.06 Resources irget vom cool Resources irget VM folder: vm irget datastore: datastore1 twork: mapping: VM Network -> VM Network cure Restore: Disabled xy: Automatic selection	
		Power on target VM after restoring	



1. Succes	sful จะแสดง Job ที่สำเร็	ବ					
Er Home View Eschup Replication (CP) Back Copy Replication (CP) Replicatio	re Failover Import Export	Vee	am Backup and Replic	ation			
Primary Jobs Austiliary Jobs Home 4 ∰ Jobs 2 ∰ Bactup 4 ∰ Bactup 2 ∰ Bactup 2 ∰ Cotte 2 ∰ List 24 Hours 2 ∰ Failed	Retore         Actions           Q: Type in an object name to search for         Set           Job Name         Set           Q: Rescan of Physical Protection         Set           Q: Backup Job VM (Increments)         Backup Job           Q: Rescan of Manually Added         Res           Q: Rescan of Manually Added         Res           Q: Agent Backup Job         Wir	sion Type can kup can can dows Agent ndows Agent	Status Success Success Success Success Success Success	Start Time 6/6/2021 11:00 PM 6/6/2021 10:49 AM 6/6/2021 9:00 PM 6/6/2021 9:00 PM 6/6/2021 7:00 PM 6/6/2021 10:49 AM	End Time ↓ 6/6/2021 11:00 PM 6/6/2021 9:36 PM 6/6/2021 9:00 PM 6/6/2021 9:00 PM 6/6/2021 7:06 PM 6/6/2021 1:55 PM		
Imme       Bit Inventory       Carl Backup Infrastructure       Carl Storage Infrastructure       Carl Tope Infrastructure       Carl Tope Infrastructure       Carl Tope Infrastructure       Carl Tope Infrastructure						6	

2.	Fail จะแสดง J	lob ที่ Fail สามารถเข้าไปดูรายละเ	อียดได้โดย Double clic	-k เข้าไป	
≣- Home V	w	Vee	m Backup and Replication		
Backup Replication C Job - Job - Po Primary Jobs	P Backup Copy Re icy Copy - Job - Auxiliary Jobs	store Fallover Plen - Restore Actions			
Home		Q. Type in an object name to search for	$\times$		
· 영말 Jobs 관렬 Backup · 문란 Backups · 권리소 고려 · 문화 24 Hours · 문화 24 Hours · 문화 24 Hours · 문화 24 Hours	G	Job Name $$\mathbb{Q}_{\mathbf{R}}$$ Rescan of Protection Group For Standalone Hoets	Session Type Status Rescan Failed	Start Time End Time ↓ 6/6/2021 9:00 PM 6/6/2021 9:00 PM	
Backup Infrastruc	ure				
Storage Infrastruc	ure				
Tape Infrastructur					
<sup>[2</sup> ]] Files					

A						~		
Agents discovery Name: Action type: Initiated by:	Rescan of Prot Rescan SYSTEM	ection Group For Standalone	Status: Start time: End time:	Failed 6/6/2021 9:00:08 PM 6/6/2021 9:00:20 PM		~		
Name	Status	Action			Duration		00 PM	
	stall backup agent: d	cannot connect to GISD8 Error.	Known agent 192.	108.10.39 have the samt pice uuid	(139473638-3935)	-4753-	4830-313958365050 but different connectio	

