

Veeam Backup & Replication 5 安装,配置及使用

一. 概念:

第三方备份和复制的 esx/esxi 数据软件,支持多种备份方法及模式。全面支持 ESX 和 ESXi 主机的备份,支持虚拟机裸机恢复(vmdk)和单个文件恢复(Q Windows 平台),针对目标备份数据的在线重复数据删除和压缩,同时支持 VMware Tools 暂停和利用微软 VSS 驱动的专用代理实现应用一致性备份.除了许多备份产品使 用的传统的全备份/增量备份方法以外,Veeam 还支持合成备份模式

### 备份(复制)方法:

**1. VMware vStorage APIs:** VMware Consolidated Backup 继任者,两者均可以 直接访问虚拟机存储而无需通过主机(LAN-free)。

有四种传输模式可以使用: SAN 模式、故障切换 SAN 模式、网络模式和虚拟设备模式







1). SAN 模式(SAN ONLY): 只支持运行在块存储设备上的虚拟机,若在物理服务器上运行此软件,必须通过光纤通道 HBA 卡或 iSCSI 启动器直接访问虚拟机数据存储,若在虚拟机上安装,则需安装的微软 iSCSI 启动器直接连接 iSCSI 数据存储。

2). 故障切换 SAN 模式(SAN with failover):增加了安全机制,当 SAN 模式不可用,会切换到网络模式完成备份。这是不可取的,因为运行在网络模式的时候,会消耗 ESX 主机更多的资源。

3). **网络模式 (Network)**: 效率最低模式, 通过主机访问虚拟机存储,使用 网络块设备协议 (NBD) 协议连接到虚拟机数据存储。这增加了额外的网络流量。 但对于本地存储,只能用此模式,因为软件无法直接访问虚拟机的磁盘。

4). 虚拟设备模式(Virtual Appliance):软件安装在一台专用的虚拟机,要备份的虚拟机磁盘被"热添加(hot-added)"到此虚拟机上,数据直接从存储栈中读取而不是通过网络。SAN模式与虚拟设备模式没有太大不同,因为它们都利用了存储栈来访问源数据

双核 CPU 的服务器上使用此软件,性能是非常差的。官方推荐至少四核到八核才能获得最佳的性能,因为它不仅把数据从源发送到目标。它还使用重复数据删除和压缩等先进的逻辑最小化复制和存储的数据总量。

2. VMware Consolidated Backup(VCB):



1). SAN

2). Network

3. 传统的网络备份(Network Backup):

Service Console Agetn OR Agent-less

二. 下载:

可以到官方网站下载最新的版本(有 32 位与 64 位两种版本)试用,需要注册一个 帐号,下载后网站会自动发一个 30 天试用版的 1ic 文件到你的注册邮箱。

http://www.veeam.com/vmware-esx-backup.html

最新版: 5.0.2.230

三. 安装:

Veeam Backup 服务器可安装于物理服务器或者虚拟机,这取决于自己的实际情况。若要安装多台 Veeam Backup & Replication 服务器,可以再安装一套 Enterprise Manager 应用程序,用于通过 Web 界面集中管理多个服务器。

平台需求:

操作系统: Windows XP SP3、win2003 SP2、Vista SP2, Win2008 SP2, Win2008 R2 SP1, Windows 7 SP1

软件: SQL 2005/2008(自带 SQL 2005 SP3 Express), NET Framework 2.0 SP1, PowerShell 2.0 or later

安装步骤图例:

注: 安装过程比较简单,跟普通的 microsft 软件一样,需要注意的地方就是数据库选择,若已经有数据库,可以选择已经存在的数据库,若没有也可以用自带的免费版 SQL 2005 Express。







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Provide License	
Provide license file for Veeam Backup and Replication	
License file for Veeam Backup and Replication:	
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Click on an icon in the list below to change how a feature is	installed.
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- 四. 配置:
- 1. 加入 vCenter server 或 ESX(i)主机:







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2. 设置通知邮件地址:



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#### 3. 设置帐号&权限:

### 注: 帐号必须是事先有的帐号,可以是本地或网域的帐号。





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New B	ackup Job	
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0	Virtual Appliance VM data is retrieved from the shared storage through ESX I/O stack. This mode can only be used if Veeam Backup is installed in a VM. Refer to product's Network VM data is retrieved using vStorage API through ESX host over LAN using the NED (Network Block Device) protocol.	
	Click Advanced to customize failover and encryption settings.     Advanced 选择VMware vStorage APIs 模式,根据自己环境而定。选SAN模式,默认是 带故障切换,在Advanced中设置。	
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ew Backup Job		
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2. VM COPY 方法同备份:

3. FILE COPY 比较简单,就像 windows 资源管理器,把存储,本机及网络之间的文件夹及内存相互之间拷贝

4. 恢复 VMs:







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hoose the virtual machine	you would like to resto	re.		Ľ
Virtual machine:				
Job name	Last backup time	VM count	Restore points	
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estore Destination ecify the host, datastore and re- would be restored. You can only c	source pool where the virt	tual machine
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	➡ Host	Refresh
Virtual machine name:	Restore disks:	选择磁盘格式
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Resource pool: use	Datastore: system	选择存储器
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**Restore Wizard** 



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ew Replication Job		<b>X</b>
<b>Replica Consistenc</b> Choose additional	<b>y</b> processing options available for Microsoft Windows guests.	
Quiesces applic transactional	<b>ation-aware image processing</b> ications inside processed VM using Microsoft VSS to ensure ly consistent backup, and configures them to perform require	ed VSS
Enable guest	file system indexing	
Indexes guest guest files i	OS files inside processed VM to enable browsing and searchi n backup. Indexing is completely optional, and not required	ng for to be
Guest OS credent	tials	
Specify the acc included in thi	ount with local administrator privileges on all VMs s job. Username must be supplied in the DOMAIN\USER	
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Password:		
Click Advanced	to customize processing options for individual VMs. Adv	anced
	K Back Next >	Cancel
Сотри	ting Expert E it 🛱 🗧	1 22



lease specify job scheduling bb will need to be	g options. If run man	you do not set the schedule ually.	, the 📔
🔽 Run the job automaticall	y		
Daily at this time:	22:00	everyday	Days
🔘 Monthly at:	22:00	Fourth 👻 星期六	♥ Months
🔘 Periodically every:	1	Hours	- Schedule
		Land Land	
Wait before each	attempt for:	10 ຼ minutes	
Wait before each	attempt for:	10 iminutes	te Cancel





2. Failover(故障转移):







<pre>like to restore backup time -04-25 17:01:29 -04-25 17:01:29</pre>	VM count Restor
. backup time -04-25 17:01:29 -04-25 17:01:29 	VM count Restor
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-04-25 17:01:29 -04-25 17:01:29 	1 2 k Next > ()
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ike to restore VM to. Original 1	nost 1772-12-7-2
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Original 1	nost <b>172-19-7-2</b>
originari	1051 112 112
Туре	
Full	
Rollback	
	Ĩ



A AND A A		
estore wizard	or you including the product, please follow the	X
Restore Reason Type in the reason for per will be logged in the rest	forming this restore operation. This information ore sessions history for later reference.	
Restore reason:		
可选,写个为 复的理由	为什么要恢	
	< Back Next >	Cancel
Restore Wizard	to see not oblig the product, phase follow in	×
Restore Wizard	<b>Completing the Restore Wizard</b> Press Finish to close the wizard and start the task.	
Restore Wizard	Completing the Restore Wizard Press Finish to close the wizard and start the task.	



name: <b>2000-2001-29</b> tore type Failover tiated by JAIMY-PC\JAIMY	<del>198024</del> /	Status: <b>Starting</b> Start time2011-04-25 17:41:58
leason Parameters Log		
Date/Time	Message	
2011-04-25 17:42:02 2011-04-25 17:42:02	Starting f Locking VM	failover to restore point <b>"General".</b> M files
最后弹	出一个100	)G窗口,会实时显示
在恢复	(启用复制)	的虚拟机转主虚拟机)
的进度		

入门 摘要 资源分配 适行: 任务事件	性能 任务与事件 警报 控制台 权	限、映	肘【存储
<b>插:</b> 任务事件			
-9844 - 9072772237 - <del>58717782</del>			
名称	目标	状系	态
🔊 重新加载虚拟机	🚯 Suse-adel 20100621 _replice	0	已完成
🚰 重新配置虚拟机	D 2 use-ads1-20100624 _reptica	۲	已完成
<ul> <li>重新配置虚拟机</li> <li>重新加载虚拟机</li> </ul>	2_use-ads1-20100621         _replica           2_use-ads1-20100624         _replica	0	已完成 已完成
<ul> <li>重新配置虚拟机</li> <li>重新加载虚拟机</li> <li>重命名虚拟机</li> </ul>	2 use-ads1-20100621 _replica           1         2 use-ads1-20100624 _replica           2         2 use-ads1-20100024 _replica           1         2 use-ads1-20100024 _replica	000	已完成 已完成 已完成
<ul> <li>重新配置虚拟机</li> <li>重新加载虚拟机</li> <li>重命名虚拟机</li> <li>创建虚拟机快照</li> </ul>	2_use-ads1-20100624         _replica           2_use-ads1-20100624         _replica           2_use-ads1-20100024         _replica           2_use-ads1-20100024         _replica           2_use-ads1-20100024         _replica	000000000000000000000000000000000000000	已完成 已完成 已完成 已完成
<ul> <li>▲ 重新配置虚拟机</li> <li>④ 重新加载虚拟机</li> <li>④ 重命名虚拟机</li> <li>④ 创建虚拟机快照</li> <li>● 重新配置虚拟机</li> </ul>	2 use-ads1-20100621         _replica           2 use-ads1-20100624         _replica           2 use-ads1-20100024         _replica           2 use-ads1-20100024         _replica           2 use-ads1-20100024         _replica           2 use-ads1-20100024         _replica           3 ause-ads1-20100024         _replica           3 ause-ads1-20100524         _replica	000000000000000000000000000000000000000	已完成 已完成 已完成 已完成 已完成

3. Undo failover(取消故障转移):





<b>cual Machine</b> pose the virtual machine you w	ould like to restore.		
ïrtual machine:			
Job name	Last backup time	VM count	Restore point
🖃 🕼 Replication Job 1	2011-04-25 17:	1	
	2011-04-25 17		2
۲ [	Ш		
1	III C Sack	Next	Cancel



Restore Wizard	
100	Completing the Restore Wizard
<b>VEEAM</b>	Press Finish to close the wizard and start the task.
No Ven	
100	
	Sack Next > Finish
Restore Session	
VM name:	H88824 Status: Success
Restore type F <mark>a</mark> llover	Start time2011-04-25 17:41:58
Initiated by JAIMY-PC\JAIM	Y End time: 2011-04-25 18:00:33
Reason Parameters Log	
Date/Time	Message
2011-04-25 17:45:01	Updating VM registration
2011-04-25 17:45:06	Creating replica protection snapshot.
2011-04-25 17:45:08	Powering on replica VM
2011-04-25 17:45:08	Failover completed successfully
2011-04-25 17:58:15	Undoing failover
2011-04-25 17:58:27	Starting agents on "esx4i02.dg-minghoi.com"
2011-04-25 17:58:31	Establishing VI SOAP connection to "172.16.7.2".
2011-04-25 17:58:43	Discarding replica protection snapshot
2011-04-25 17:59:42	Restoring the latest replica state
	Close



# 注: 同时在虚拟机日志中也会显示取消过程:

🕙 关闭虚拟机	2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2	〇 已完)	成
🕗 恢复快照	2 2	〇 已完)	成
🕗 移除快照	🔁 2.050 odo1 20100621 _replice	📀 已完)	成
🕗 重新加载虚拟机	avec edet 20100624 _replica	📀 已完)	成
🕙 重命名虚拟机	D Corrector 20100621	📀 已完)	成

## 更多的功能请查看官方手册

