## VMware Converter 5.1 P2V 转换实战

## 一、需求环境情况

如图将"服务器①"内运行的 Windows Server2008 系统(hostname: Server1)迁移转换到"服务器②" 成为虚拟机(VMware vCenter Infrastructure virtual machine 环境)。



#### 二、迁移转换网络拓扑情况与操作原理说明

安装部署 VM vCenter Converter Standalone 转换工具到"服务器③","服务器③"可以是 1 台独立物理 机服务器,也可以是虚拟环境中的 1 台虚拟服务器,或者安装于 vCenter 服务器系统上,本次采用的方式为 在个人电脑内的 VMware Workstation 上的虚拟机部署 1 套 Windows Server 2008 并安装一套 VM vCenter Converter Standalone 转换工具作为 Converter Server。



**服务器①** (IP:192.168.0.201): 源服务器(待转换服务器),系统 Windows Server 2008 VCenter (IP:192.168.0.170): 目标环境,转换后虚拟机会添加在 VCenter 管理的 ESXi 主机内 **服务器③** (IP:192.168.0.171): 转换工具所在服务器设备, Converter 服务器

基本原理: 在"服务器③"系统中运行 Converter 工具,依照向导输入被转换服务器的 IP 与管理员用户与密码(源服务器需要暂时关闭防火墙与杀毒软件), Converter 工具将会远程方式在源服务器上部署代理程序(Agent),部署完成后 Converter 工具将通过代理程序提取源服务器系统文件,通过 VCenter Server 注入到虚拟机环境,并建立对应的虚拟服务器。

### 三、安装 Converter 工具

vmv	vare <sup>.</sup>
VM	InstallShield Tizard
Со	VMware vCenter Converter Standalone Setup is preparing the InstallShield Wizard, which will guide you through the program setup process. Please wait.
	Extracting: VMware vCenter Converter Standalone msi
Copyright the Unite listed at h	© 1998-2013 VMware, Inc. All rights reserved. This product is protected by copyright and intellectual property laws in I States and other countries as well as by international treaties. VMware products are covered by one or more patents http://www.vmware.com/go/patents.



🐺 VIIware vCenter Converter Standalone 🛛 🗙				
End-User Patent Agreement Please read the following patent agreement carefully.				
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InstallShieldCancel				

🕞 Vilware vCenter Converter Sta	ndalone		×		
End-User License Agreement Please read the following license agreer	ment carefully.		-		
VMWARE END US	ER LICENSE A	GREEMENT	-		
PLEASE NOTE THAT THE TERMS AGREEMENT SHALL GOVERN YO REGARDLESS OF ANY TERMS TO INSTALLATION OF THE SOFTWA	S OF THIS END DUR USE OF T HAT MAY APP ARE.	) USER LICENSI HE SOFTWARE EAR DURING TH	E , 1E		
IMPORTANT-READ CAREFULLY: BY DOWNLOADING, INSTALLING, OR USING THE SOFTWARE, YOU (THE INDIVIDUAL OR LEGAL ENTITY) AGREE TO BE BOUND BY THE TERMS OF THIS END USER LICENSE					
• I agree to the terms in the License Agre	eement				
$\odot$ I do not agree to the terms in the Licent	C I do not agree to the terms in the License Agreement				
Iostal/Shield					
	< <u>B</u> ack	<u>N</u> ext >	Cancel		

🚼 Vilvare	vCenter Converter Sta	ndalone		×
Destination Folder Click Next to install to this folder, or click Change to install to a different folder.				-
	Install VMware vCenter Conv C:\Program Files (x86)\VMwa Standalone\	erter Standalone re\VMware vCenl	to: ter Converter	<u>C</u> hange
InstallShield –			[/······	
		<u> </u>	<u>N</u> ext >	Cancel

👘 Vilware 🔻	Center Converter Standalone	×
<b>Setup Type</b> Click the t	<b>e</b> ype of setup you prefer, then click Next.	
C Local in	nstallation Install Converter on this machine. Use this option to create and manage conversion tasks from this local machine only.	
Client-	Server installation (advanced)	
ß	Set up a client-server model for Converter. Use this option to install the server, client or the agent on this machine.	
InstallShield —		
	< <u>B</u> ack <u>N</u> ext >	Cancel

🛃 Vilvare vCenter Converter Standalone	×
<b>Custom Setup</b> Select the components you want to install.	
Click on an icon in the list below to change how a component is Converter server Remote access Converter agent Converter client	s installed. Description Provides centralized management for all conversions. The Converter server handles communication between clients and the Converter agent. This feature requires 92MB on your hard drive. It has 1 of 1 subfeatures selected. The subfeatures require 168MB on your hard drive.
InstallShield	Next > Cancel

🚼 VIIware vCenter Co	nverter Standalone	×
YMware vCenter Conv Specify the VMware vC	enter Standalone Port Settings enter Converter Standalone Web Service Ports.	
HTTPS Service Port:	443 Remote Converter clients connect to this port on the server and submit conversion tasks.	
HTTP Service <u>P</u> ort:	80 Remote machines connect to the server through this port to download the Converter client.	
Agent Service Port:	9089 Remote Converter agents connect to this port to convert this machine.	
InstallShield	< <u>B</u> ack <u>N</u> ext > Cancel	

🙀 VIIware vCenter Converter Stand	alone 🛛
Ready to Install	
The wizard is ready to begin installation.	
Click Install to begin the installation.	
If you want to review or change any of y Click Cancel to exit the wizard.	your installation settings, click Back.
Toctal/Chield	
	< <u>B</u> ack Install Cancel

👘 Vilvare	vCenter Converter Sta	ndalone		
Installing The prog	YMware vCenter Converto gram features you selected are	e <b>r Standalone</b> being installed.		-
Please wait while the InstallShield Wizard installs VMware vCenter Converter Standalone. This may take several minutes.				onverter
	Status:			
	Copying new files			
InstallShield				
u racanar niciu -				
		< <u>B</u> ack	Next >	Cancel



#### 安装后可通过帮助查看版本信息



## 三、待转换服务器(Server1)系统情况

🏭 服务器管理器					
文件 (2) 操作 (4) 查看 (2) 帮助 (3)					
<ul> <li>◆●● 2 〒 2 〒 2 ■</li> <li>● ● 2 〒 2 ■</li> <li>● ● 2 〒 2 ■</li> <li>● ● ● 2 ■</li> <li>● ● ● ● ● ● ● ● ● ● ● ● ● ● ● ● ● ● ●</li></ul>	¥盆管理       卷列表 + 图形视图         卷       布局       类型       文件系统       状态         ○       ①:       简单       基本       NTPS       状态良好       (启动,页面文件、故障转储,主分区)         ○       0::)       简单       基本       NTPS       状态良好       (主分区)         ○       0::)       简单       基本       NTPS       状态良好       (主分区)         ○       0::)       简单       基本       NTPS       状态良好       (主分区)         ○       新加巻       0::)       简单       基本       NTPS       状态良好       (主分区)         ●	<mark>操作</mark> 磁盘管理 ▼			
	■ ±사원 ■ ↑사전				
J					

#### 四、运行 Converter 工具

🛃 🖓 🗤 ware 🕫 Center Converter Standalone	×
VMware vCenter" Converter Standalone	
<pre>Welcome to VMware vCenter Converter Standalone To log in to a server on this local machine, select "Connect to a local server". To log in to a remote server enter the IP address or host name of the remote Converter server. C Connect to a local gerver</pre>	r, r ver.
<u>L</u> ogin <u>C</u> lose	

选择[Convert machine]



选择 A remote machine 项,输入源服务器地址,管理员用户,密码,系统类型。

🖶 Conversion			x
<b>Source System</b> Select the source s	ystem you want to conve	rt	
Source System Destination System Options Summary	Source: none Select source type: C Specify the powered This local machine IP address or n User name: Password: OS Family: View source details	Destination: none Powered-on machine onvert any powered-on physical or virtual machineon machine  te f持转换服务器的 fight 192.168.0.201 administrator administrator windows .	
Help Export diago	nostic logs	< Back Cancel	

# 选择完成后代理自动卸载选项

🖶 VBware vCenter Converter Standalone Agent Deployment 🛛 🗙
VMware vCenter Converter Standalone agent needs to be temporarily installed on the remote source machine: 192.168.0.201.
Uninstall VMware vCenter Converter Standalone agent <u>A</u> utomatically uninstall the files when import succeeds I will <u>m</u> anually uninstall the files later
Do you want to continue? <u>Y</u> es <u>N</u> o

远程部署代理



代理部署完成后, Converter服务器试图与源服务器上的代理连接

🚼 Conversion	
Source System	vertem you want to convert
	yorom you while to convert
Connecting to source	machine Cancel
Options	Select source type: Powered-on machine
Julikary	Convert any powered-on physical or virtual machine.
	Specify the powered-on machine
	C This local machine
	C A remote machine
	IP address or name: 192.168.0.201
	User name: administrator
	Password:
	QS Family: Windows
	View source <u>d</u> etails
Help Export diag	nostic logs < Back Mext > Cancel

Converter服务器与源服务器代理建立连接后,即可设置目标位置的参数,设置中选择目标类型 VMware Infrastructure virtual machine(即Vcenter管理的VMware虚拟化服务器平台环境),输入目 标地址(vCenter Server IP),用户名,密码。

🚼 Conversion	
<b>Destination System</b> Select a host for t	he new virtual machine
Source System Destination System Destination Virtual W Destination Location Options Summary	Source: 192.168.0.201 Destination: none Select destination type: Wwware Infrastructure virtual machine  Creates a new virtual machine for use on a Wwware Infrastructure  product.  WWware Infrastructure server details VCenter 服务器 Server 192.168.0.170 User name: administrator Password:
Help Export diagn	aostic logs < <u>B</u> ack Next > Cancel

接下来输入转换后虚拟机服务器的名称 "Server1"

🖥 Conversion		
Destination Virtual Select the destinat:	Machine ion VM name and folder	
Source System Destination System Destination Virtua	Source: 🗐 192.1. Destination: 🦃 serv Name: server1	er1 on 192.168.0.170 (VMWare vCenter Serve… 
Options Summary	Inventory for: 192.168.0.170 <u>Searc</u> 192.168.0.170 □ DataCenter [0 VMs] □ □ □ □ □ □ □ □ □ □ □ □ □ □ □ □ □ □ □	h for name with: VM name A Power state
	Refresh	
Help Export diagn	ostic logs	< Back Next > Cancel

选择ESXi主机及ESXi主机的存储,本次选择datastore2

🖶 Conversion		
Destination Location Select the location	<b>n</b> for the new virtual machine	
Source System Destination System Destination Virtual N Destination Locati Options Summary	Source: 192.1 Destination: Inventory for: 192.168.0.170	server1 on 192.168.0.170 (VMware vCenter Serve** Total source disks size: 65 GB Datastore Capacity: 79.75 GB Free: 78.8 GB Type: VMFS Virtual machine version Version 9 V
Help Export diagn	ostic logs	< <u>B</u> ack Next > Cancel



选择[高级]选项,可调整待转换系统磁盘分区与虚拟机虚拟磁盘文件相关的参数

🔁 Conversion		i and a second			
<b>Options</b> Set up the paramete	ers for the conversion task				
Source System Destination System Destination Location <b>Options</b> Summary	Source: 192.168.0.201 Click on an gption below to ed Current settings: Data to copy Edit vCPUs: 2 (2 sockets * 1 Disk controller: SCSI L Menory: 16B Hetworks Edit NIC1: VM Network Services Edit Total: 112 service(s) Advanced options Edit Synchronization: Disabled Synchronize: N/A Final synchronization: Power on destination: No Power of f source: No Install VMware Iools: No Customize Guest OS: No Remove Restore Checkpoi Reconfigure: Yes Throttling Edit CPU: None Network bandwidth: None	Dest: it it. Pata copy type: Sele Configuration (VMX) f Select the source vol to add or save space. Select a system and a machine. Source volumes V _ \\?dc0: V _ C: V _ E: V _ F:	ination: Serverl or ct volumes to copy v ile location: datastore umes to copy to the des n active volume, or a s Destinatio''' Destin a''' '''100 MB) v ''''9.9 GB) v ''''1Dis ''''(15 GB) v ''''1Dis	Advanced 2 (78.8 GB) stination machine. Resize des system/active volume to run t a Destination datastore sk1 datastore2 (78.8 GB) datastore2 (78.8 GB) datastore2 (78.8 GB)	er Server 5.1.0)
		✓ Ignore page file an	nd hibernation file		
		- System	Active	🍠 System/Active	👍 Unknown
Help Export diag	nostic logs			< Back Next >	Сн 🧉 😧 🗧

#### Conversion Options

Set up the parameters for the conversion task

Source System	Source: 🗐 192.168.0.201	Destination	n: 🦃 server1 on 19	2.168.0.195 (V	Mware vCenter Server 5.1.0)
Destination System Destination Virtual N	Click on an option below to edi	t it.			
Destination Location	Current settings:	-			×
Summary	▼Data to copy Edit	Data copy type: Select volu	mes to copy <u>▼</u> B <u>a</u> s	10	
	Copy type: Volume-based	Source volumes Destinat:	ion layout		
	<((/////orume/dcuaarou= <c:>: 39.9 GB</c:>	Select the source volumes t	o copy to the desti	nation machine	. Select a system and an
	<e:>: 10 GB</e:>	active volume, or a system/	active volume to ru	n the destinat	ion machine.
	<f:>: 15 GB</f:>	Source volumes	Used space	Total space	Туре
	Devices     Edit	Volume {dc0aa70…	28.12 MB	100 MB	NTFS
	vCPUs: 2 (2 sockets **** Disk controller: SCSI***	V 🚙 C:	7.9 GB	39.9 GB	NTFS
	Memory: 1GB	E:	79.25 MB	10 GB	NTFS
	wNetworks Edit	<b>∀</b> → F:	90.2 MB	15 GB	NTFS
	NIC1: VM Network				
	Services Edit				
	Intal: 112 service(s)				
	Synchronization: Disa				
	Synchronize: N/A				
	Final synchronization				
	Power on destination:				
	Power off source: No				
	Install VMware Tools:"				
	Remove Restore Checkn				
	Reconfigure: Yes				
	Throttling Edit	1			
	CPU: None	👝 System 🛛 👝 A	ctive d	ᢖ System/Activ	e 👍 Unknown
	Network bandwidth: None 💌				
Help Export diagn	ostic logs			< Back Ne	xt >   CH   ⊖ (encel

下图可看到虚拟机部署为两个虚拟磁盘文件,同时可考虑是存储的"厚"配置,还是"精简"配置,还可以调整分区在虚拟机内所处的磁盘文件。

Conversion Options

Set up the parameters for the conversion task

Source System	Source: 🗐 192.168.0.201	Destina	tion: 🐝 server)	1 on 192.168.0.195 (	VMware vCenter Server 5.1.0)
Destination System Destination Virtual N	Click on an option below to ed:	it it.			
Destination Location Options	Current settings:	Data copy type: Select	volumes to copy	▼ Basic	×
Summary	Copy type: Volume-based	Source volumes Dest	ination layout		
	<\\?dcUaa700-*** <c:>: 39.9 GB</c:>	Configuration (VMX) fil	e location: datas	store2 (78.8 GB)	
	<e:>: 10 GB <f:>: 15 GB</f:></e:>	Customize the data layo	ut for the destin	nation machine.	Destination detectors/C····
	- Devices Edit	Destination Tayout	50 GB	Thin	datastore2 (78.8 GB)
	vCPUs: 2 (2 sockets **** Disk controller: SCSI***	🔄 🥏 \\?\Volume {dc…	···e (100 MB)	4KB 💌	(block level)
	Memory: 1GB	🚽 C:	(39.9 GB) 💌	4KB 💌	(block level)
	▼Networks Edit	→ <sup>E</sup> :	…ze (10 GB) 💌	4KB 💌	(block level)
	NIC1: VM Network	MirtualDisk2	15 GB 🤇	Thick 🗾	datastore2 (78.8 GB) 💌
	Total: 112 service(s)		•••ze (15 GB) 💌	4KB 💌	(block level)
4	<ul> <li>★ Advanced options Edit Synchronization: Disa<sup>™</sup> Synchronizet: N/A Final synchronization<sup>™</sup> Power on destination<sup>™</sup> Power off source: No Install VMware Tools:<sup>™</sup> Customize Guest OS: No Remove Restore Checkp<sup>™</sup> Reconfigure: Yes</li> <li>▼ Intotling Edit CPU: None Network bandwidth: None ▼</li> </ul>	✓ Ignore page file and ✓ Create optimized par	hibernation file tition <u>l</u> ayout	Move up Move dog	yn <u>Remove disk <b>Add disk</b></u>
Help Export diagn	wostic logs			< Back	lext >   CH   ⊖ CH

调整好后,下一步

\_ 🗗 🗙

Conversion			
Summary			
Review the conversio	n parameters		
Source System	Source: 蓟 192.1… Destination:	🐝 server1 on 192.168.0.195 (VMWware vCen	ter Serve…
Destination System			
Destination Virtual N	Source system information		-
Options	Source type:	Powered-on machine	
Summary	Name/IP address:	192.168.0.201	
	Connected as:	administrator	
	CPU throttling:	None	
	Network throttling:	None	
	Virtual machine name:	sonor1	
	Hardware version:	Version 9	
	Host/Server:	192.168.0.170	
	Connected as:	administrator	
	VM folder:	已发现虚拟机	
	Host system: Resource peol:	192.168.0.195 Default	
	Power on after conversion:	No	
	Number of vCPUs:	2 (2 sockets * 1 cores)	
	Physical memory:	1GB	
	Network:	Preserve NIC count	
	NIC1	Connected VM Network	
	Disk controller type:	SCSI LSI Logic SAS	
4 D	Storage:	Volume-based cloning	•
Help Export diagno	stic logs	< <u>B</u> ack <u>F</u> inish	Cancel
Help Export diagno	stic logs	< <u>Back</u> <u>Finish</u>	Cancel
Help Export diagno	stic logs	< <u>Back</u> <u>Finish</u>	Cancel
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Help Export diagno	stic logs on parameters	< <u>Back</u> <u>Finish</u>	
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Help Export diagno	stic logs on parameters Source system information Source type: Name/IP address: Connected as: OS family: CPU throttling: Network throttling: Destination system information Virtual machine name: Hardware version: Host/Server: Connected as: VM folder: Host system: Resource pool: Power on after conversion: Number of vCPUs: Physical memory: Network: NIC1 Disk controller type: Storage:		
Help Export diagno	stic logs on parameters  Source system information Source type: Name/IP address: Connected as: OS family: CPU throttling: Network throttling: Destination system information Virtual machine name: Hardware version: Host/Server: Connected as: VM folder: Host system: Resource pool: Power on after conversion: Number of vCPUs: Physical memory: Network: NIC1 Disk controller type: Storage:	《 Back Finish     Powered-on machine     192.168.0.201     administrator     Windows     None     None     Server1     Version 9     192.168.0.170     administrator     已发现虚拟机     192.168.0.195     Default     No     2 (2 sockets * 1 cores)     1GB     Preserve NIC count     Connected     VM Network     SCSI LSI Logic SAS     Volume-based cloning	
Help Export diagno	stic logs on parameters Source system information Source type: Name/IP address: Connected as: OS family: CPU throttling: Network throttling: Destination system information Virtual machine name: Hardware version: Host/Server: Connected as: VM folder: Host system: Resource pool: Power on after conversion: Number of vCPUs: Physical memory: Network: NIC1 Disk controller type: Storage:	< Back Finish          < Back Finish	Cancel

#### 开始转换



🛃 Vilware 🕫 Center C	onverter Stand	lalone						_ 🗆 ×
<u>F</u> ile <u>V</u> iew <u>T</u> ask <u>A</u>	dministration	Help						
🚳 Convert machine 🛛 📸 Configure machine 🛛 🔘								
Vie <u>w</u> by: ▼ Tasks <u>S</u> how: ▼ Running tasks i <u>n</u> ▼ Recent tasks								
Task ]⊽ Job ID	Source	Destination	St	atus	Start time	End time		
🖆 2 🛛 2	192.168.0.201	192.168.0.170/s	erver1 📃	39%	2013/12/	Estimated	time remaining:	17 min…
Tack ID 2: Pupping		Source: 102	FFF	1	Dectin	ation: 102	168 0 170/correc	.v.1
Task ID 2: Running	E	Source: 192.1	168. 0. 201	1	Destin	ation: 192.	.168.0.170/serve	er1
Task ID 2: Running Summary Task	g progress	Source: 192.1	168.0.201		Destin	ation: 192.	.168.0.170/serve	er1
Task ID 2: Running Summary Task	progress	Source: 192.1	168. 0. 201	Destina	Destin	ation: 192.	.168.0.170/serve	er1
Task ID 2: Running Summary Task Source system	progress information	Source: 192.	168. 0. 201	Destina	Destin: ntion syste	ation: 192. em informa	.168.0.170/serve ation	er1
Task ID 2: Running Summary Task Source system Source type:	progress information Powere	Source: 192.; ;d-on machine	168. 0. 201	<b>Destina</b> Virtual	Destina ntion system machine nam	ation: 192. em informa	ation serverl	er 1
Task ID 2: Running Summary Task Source system Source type: Name/IP address:	progress information Powere : 192.16	Source: 192.; ;d-on machine ;8.0.201	168. 0. 201	<b>Destina</b> Virtual Hardware	Destin ntion syste machine nam e version:	ation: 192. em informa	ation serverl Version 9	er1
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Task ID 2: Running Summary Task Source system Source type: Name/IP address: Connected as: Destination cr Install VMware 7 Customize guest Remove restore of	progress information Powere : 192.16 admini ustomization Tools: OS: checkpoints:	Source: 192. ed-on machine 38.0.201 istrator No No Yes	168. 0. 201	Destina Virtual Hardware Host/Ser Connecte VM folde Host sys Resource Power on	Destina <b>ation syste</b> machine nam e version: ver: ed as: er: er: etem: e pool: a after conv	ation: 192. em informa e: ersion:	.168.0.170/serve ation server1 Version 9 192.168.0. administra 已发现虚拟和 192.168.0. Default No	r1 170 tor 195
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完成

🚼 VIIware vCenter C	onverter Stand	alone					
<u>F</u> ile <u>V</u> iew <u>T</u> ask <u>A</u>	dministration	Help					
🕼 Convert machine 🛛 🔒 Configure machine 🔘							
Vie <u>w</u> by: 🔻 Tasks Show: 🔻 Running, Failed, Completed, Queued, Canceled tasks i <u>n</u> 🔻 Past day							
Task ] 🛆 Job ID	Source	Destination	St	atus	Start time	End time	
🖆 2 🛛 2	192.168.0.201	192.168.0.170/server1	<ul> <li>Image: A start of the start of</li></ul>	Comple	2013/12/	2013/12/21 17:22:09	
			FFI	-			
Task ID 2: 📀 Comp	leted	Source: 192.168.0.3	201		Destin	nation: 192.168.0.170/server1	
Summary Task	progress						
Conversion sta	atus			Log hig	hlights	Export logs	
Type:	P2V			2013/12/	21 17:21:29	9 event.UninstallingAgentFrom	
Created:	201	3/12/21 16:48:25 by Ad	lm:	2013/12/	21 17:21:29	9 event.CustomizationComplete	
Status:	Com	pleted		2013/12/	21 17:20:21	l event.CustomizationDeployin	
Started:	201	3/12/21 16:48:25		2013/12/	21 17:20:21	event.CustomizationCreating	
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Running time:	33	minutes		2013/12/	21 17:18:12	2 event.ReconfigurationComple	
Average transfer	rate: 38.	74 MB/s		2013/12/	21 17:16:20	) event.ReconfigurationApplyi	
•			۲	2013/12/	21 17:16:12	event.ReconfigurationProces	

#### 转换完成后架构如下(断开源系统的网络连接以便IP地址冲突)



vCenter管理界面中可见转换完成后的虚拟机

