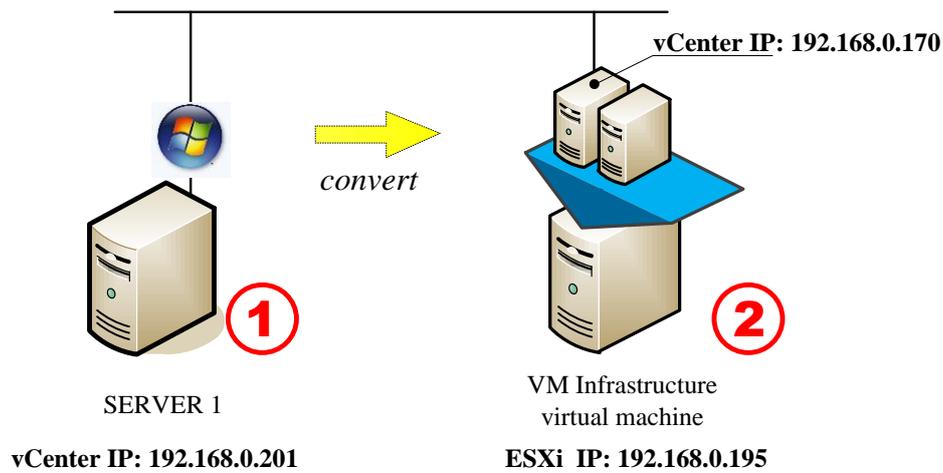


VMware Converter 5.1 P2V 转换实战

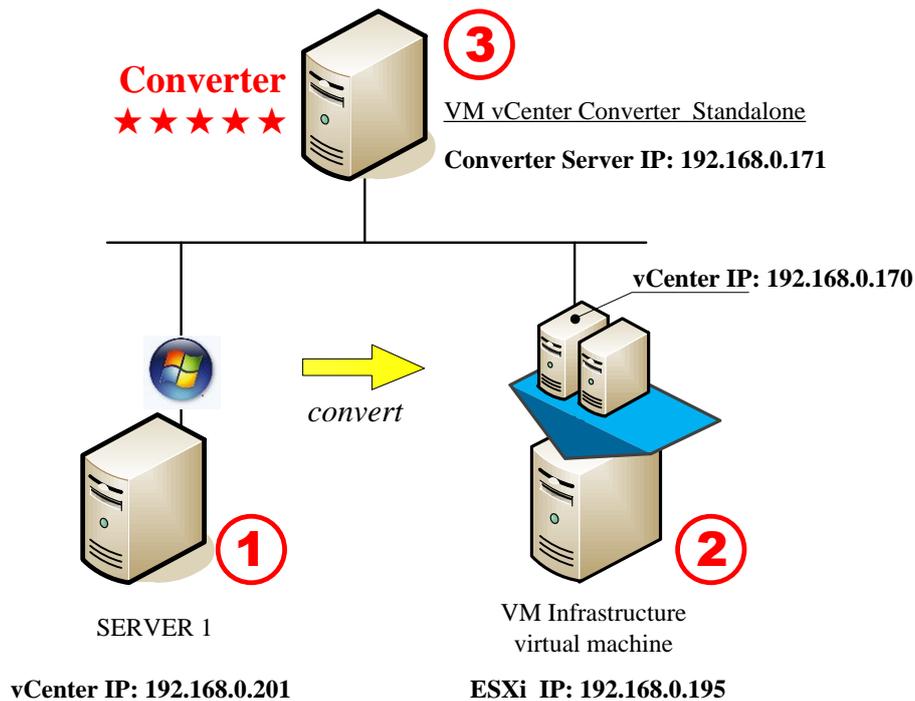
一、需求环境情况

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。



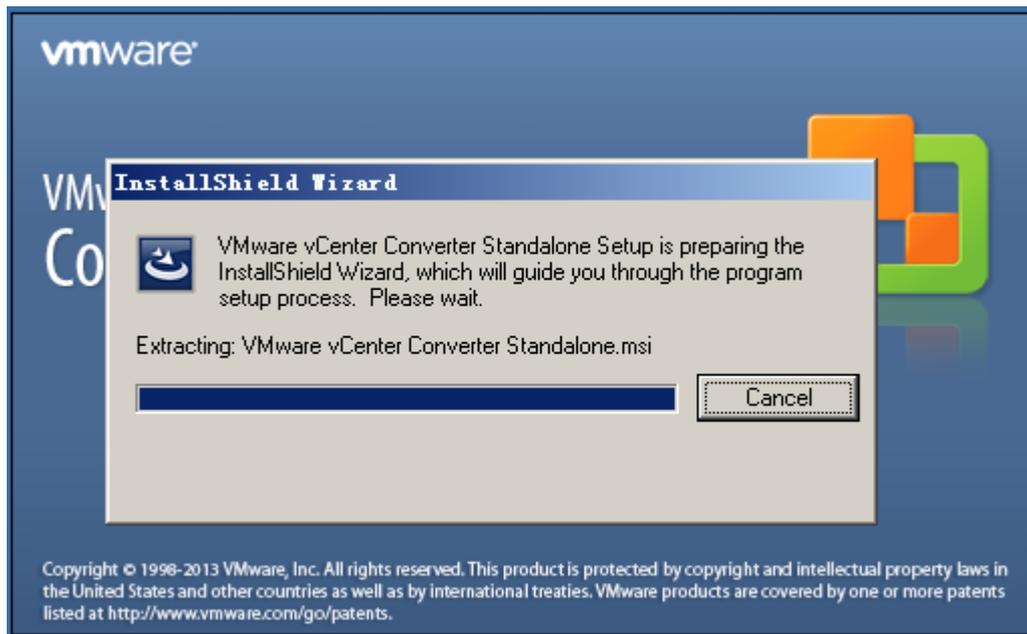
服务器① (IP : 192.168.0.201): 源服务器 (待转换服务器), 系统 Windows Server 2008

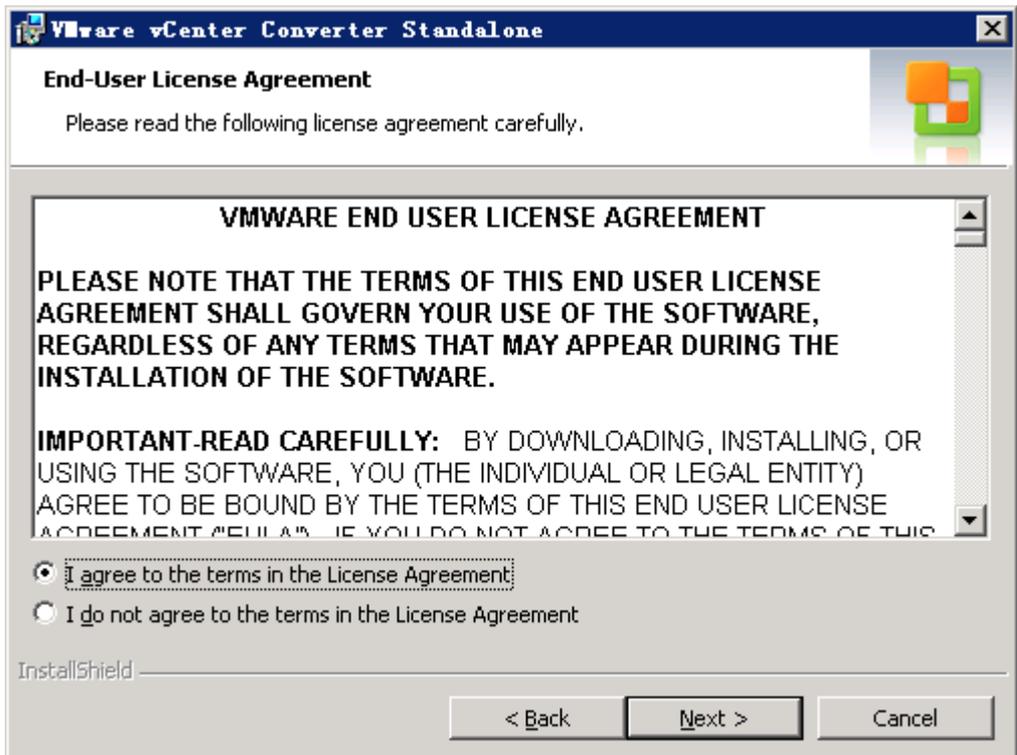
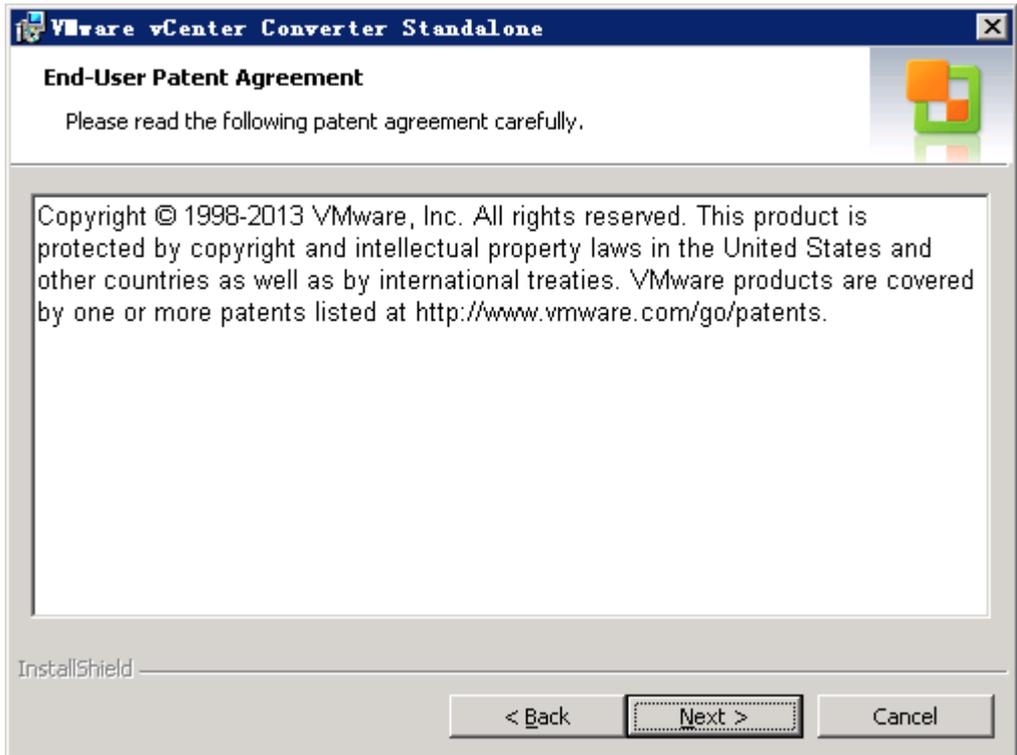
VCenter (IP : 192.168.0.170): 目标环境, 转换后虚拟机会添加在 VCenter 管理的 ESXi 主机内

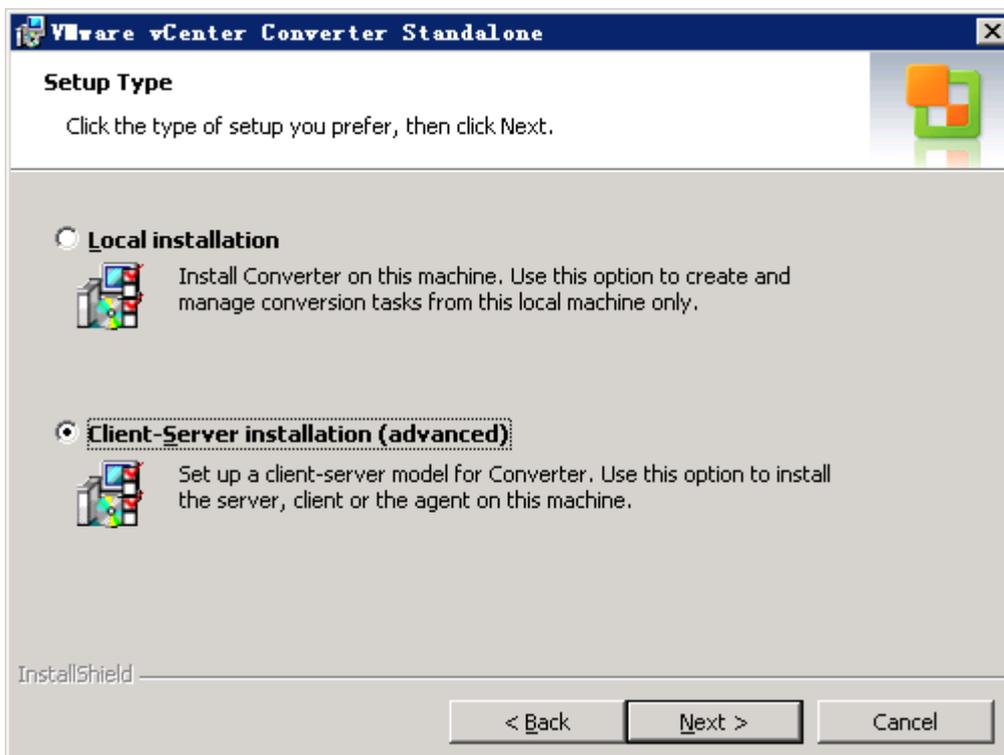
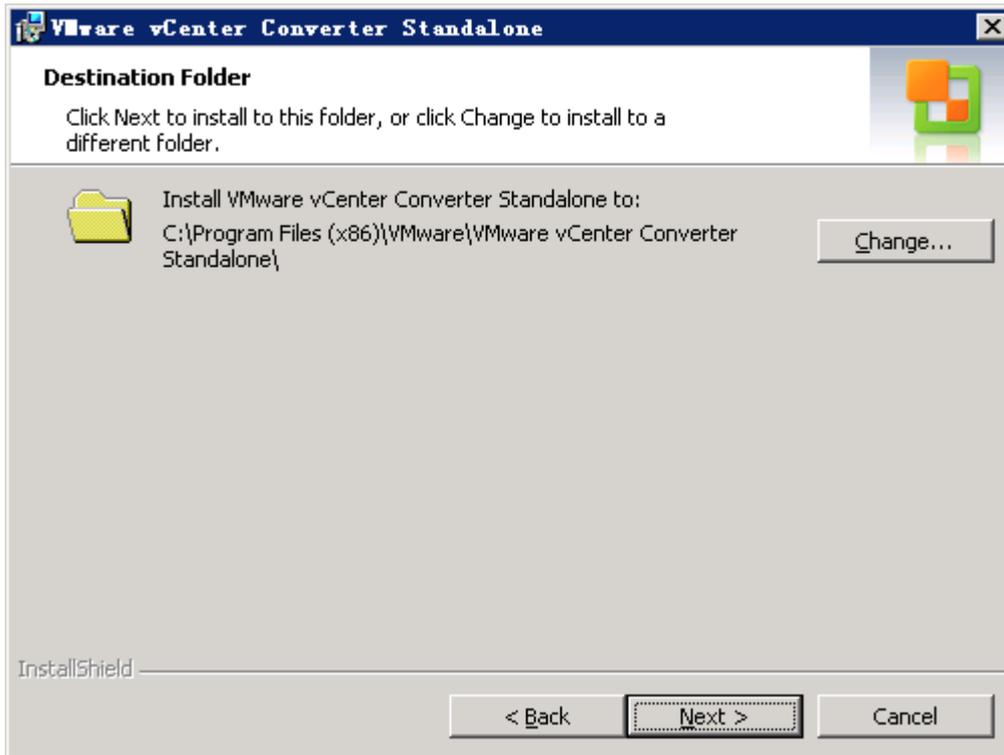
服务器③ (IP : 192.168.0.171): 转换工具所在服务器设备, Converter 服务器

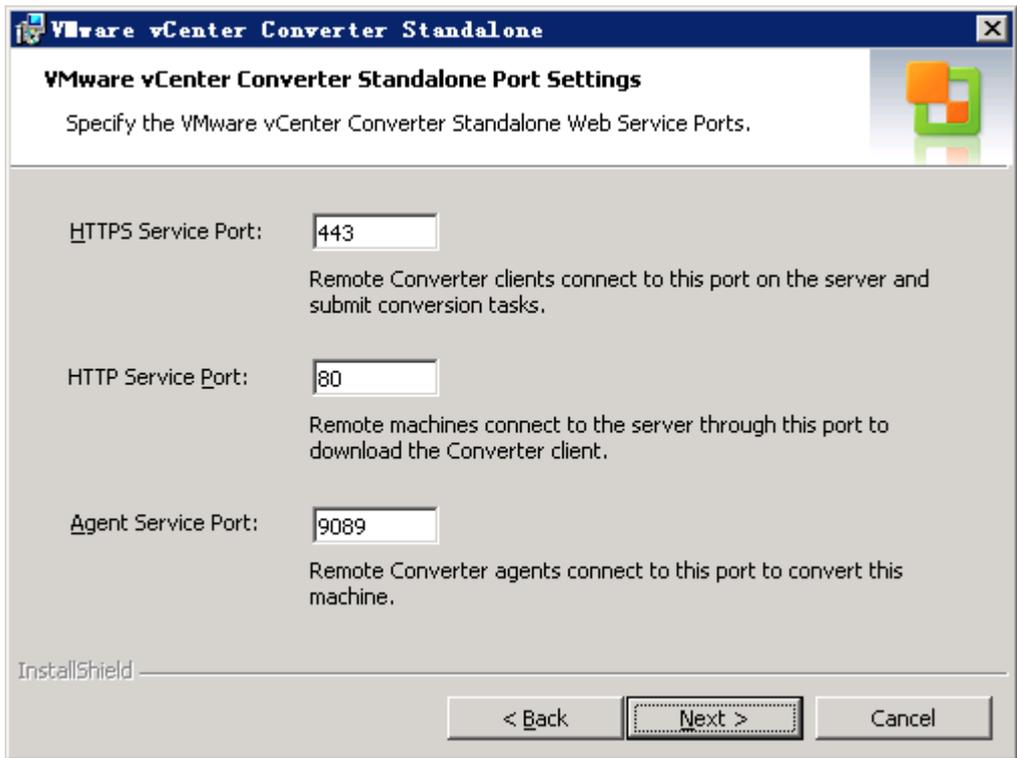
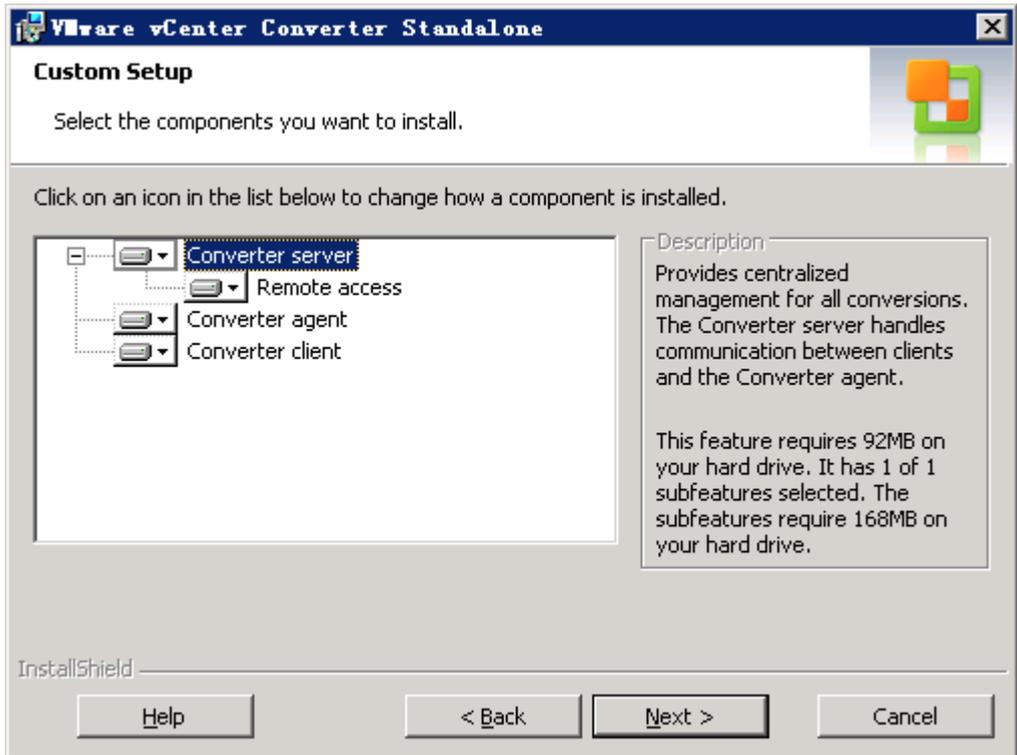
基本原理: 在“服务器③”系统中运行 Converter 工具, 依照向导输入被转换服务器的 IP 与管理员用户与密码(源服务器需要暂时关闭防火墙与杀毒软件), Converter 工具将会远程方式在源服务器上部署代理程序 (Agent), 部署完成后 Converter 工具将通过代理程序提取源服务器系统文件, 通过 VCenter Server 注入到虚拟机环境, 并建立对应的虚拟服务器。

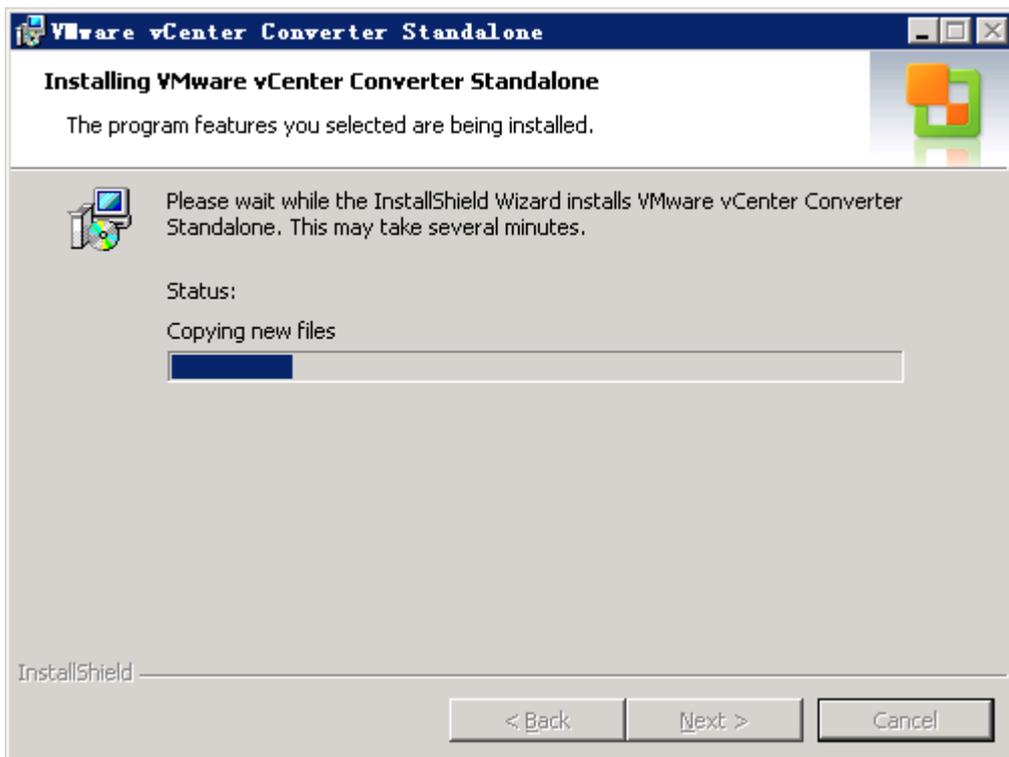
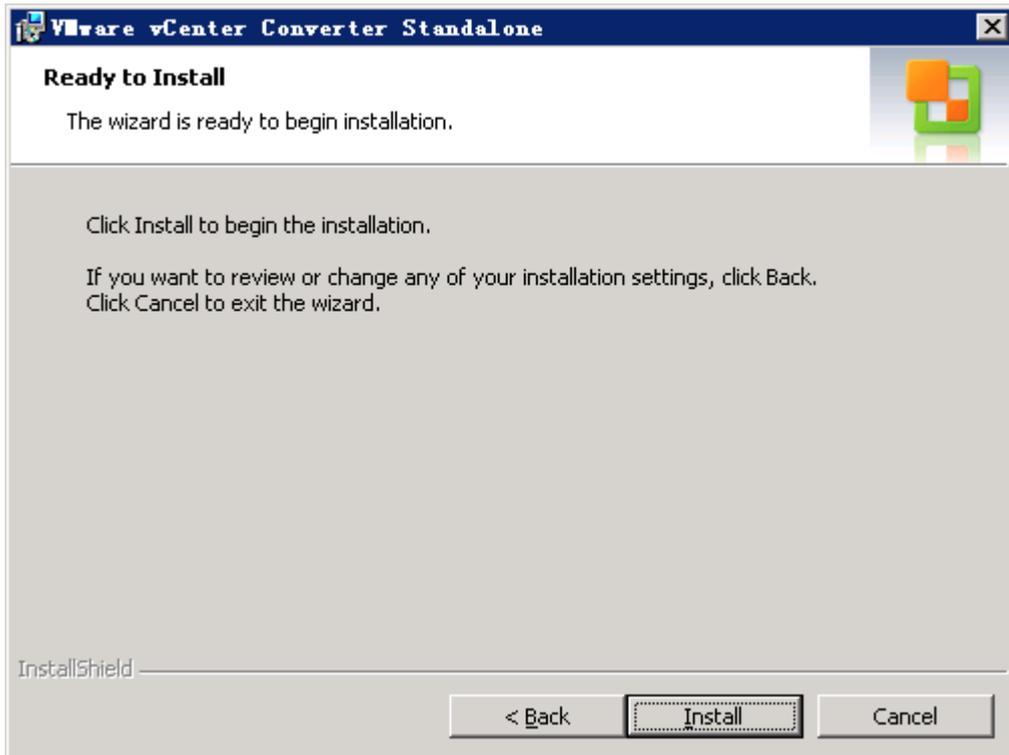
三、安装 Converter 工具

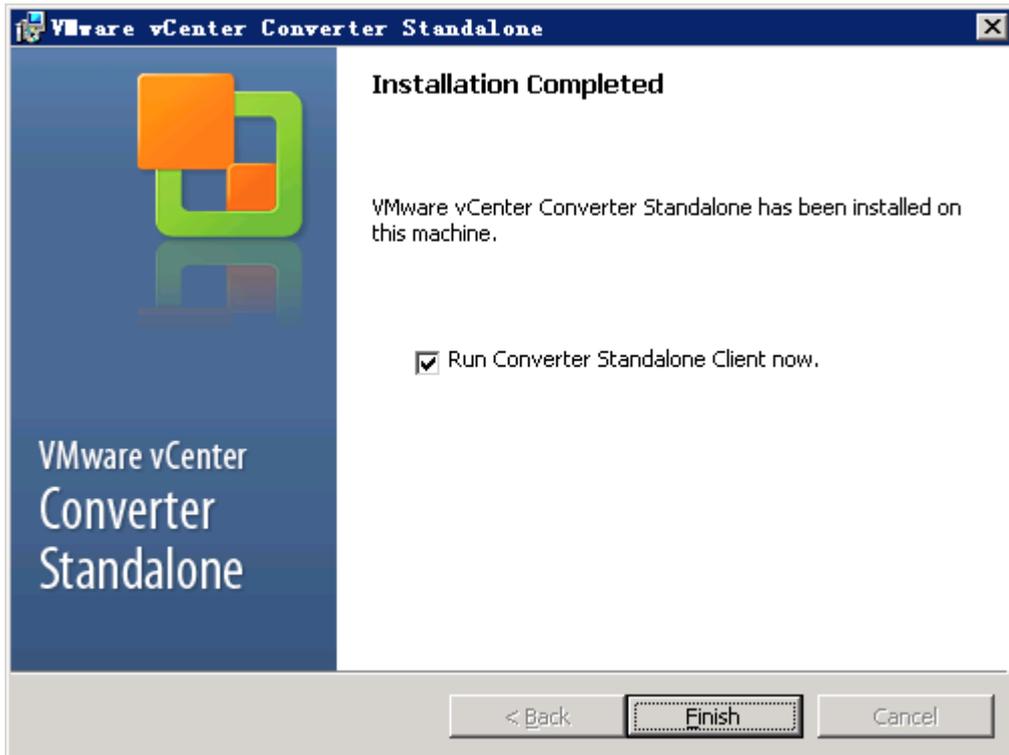




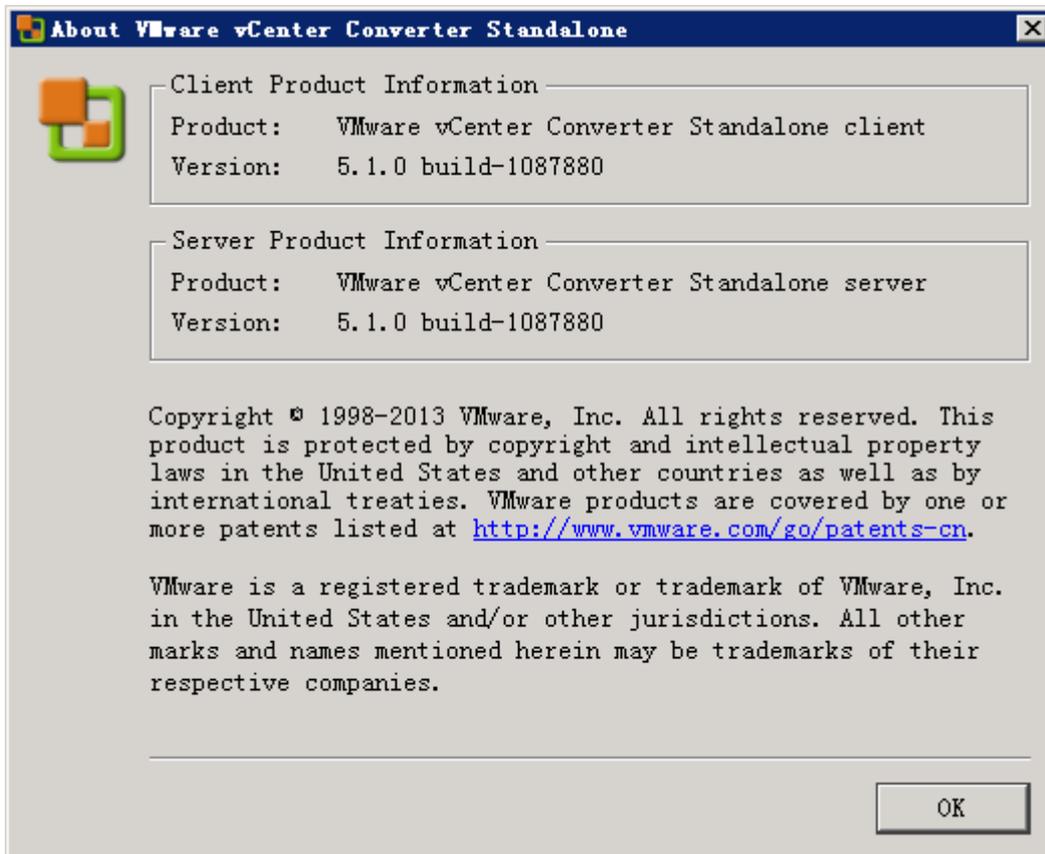




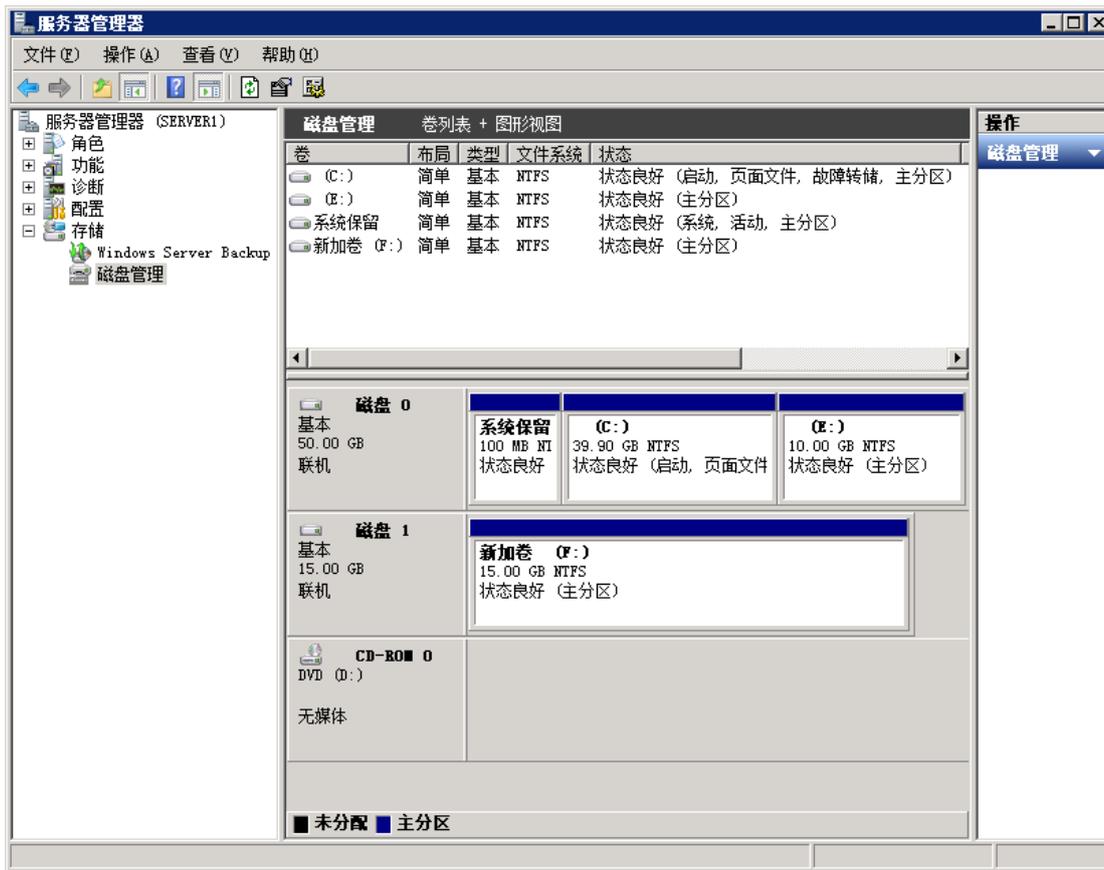




安装后可通过帮助查看版本信息



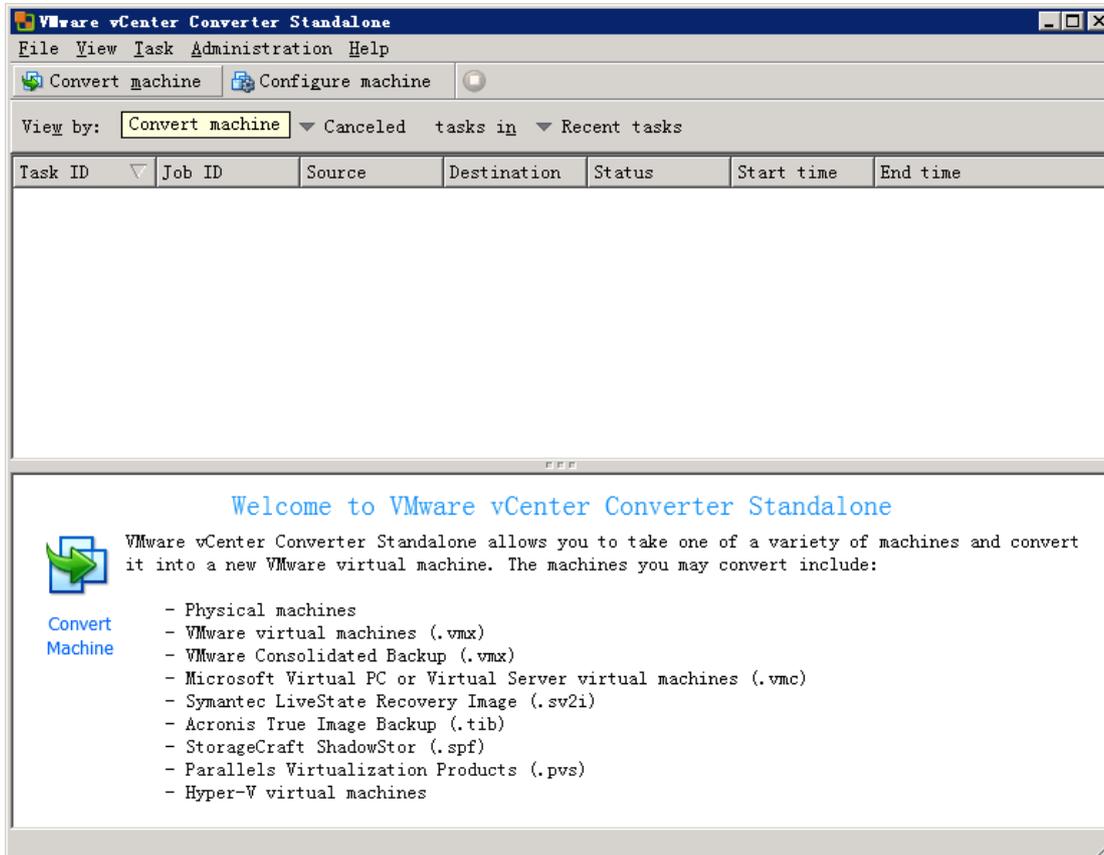
三、待转换服务器（Server1）系统情况



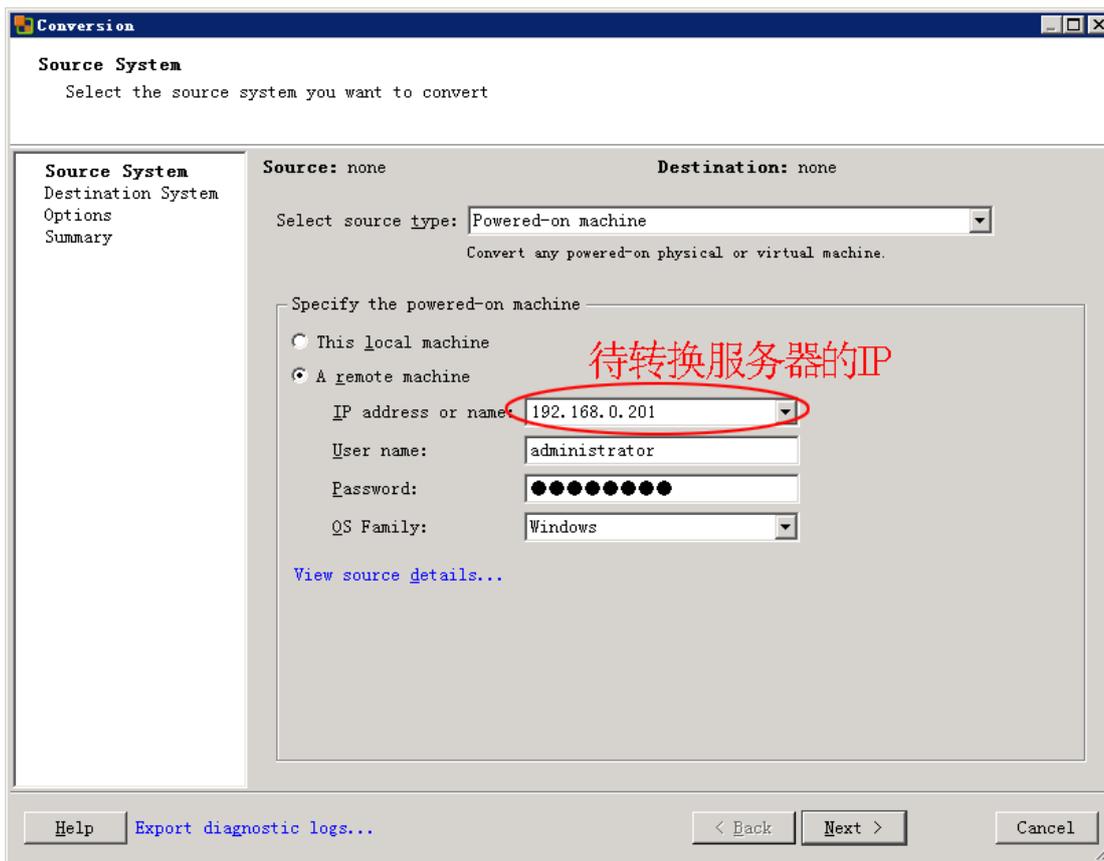
四、运行 Converter 工具



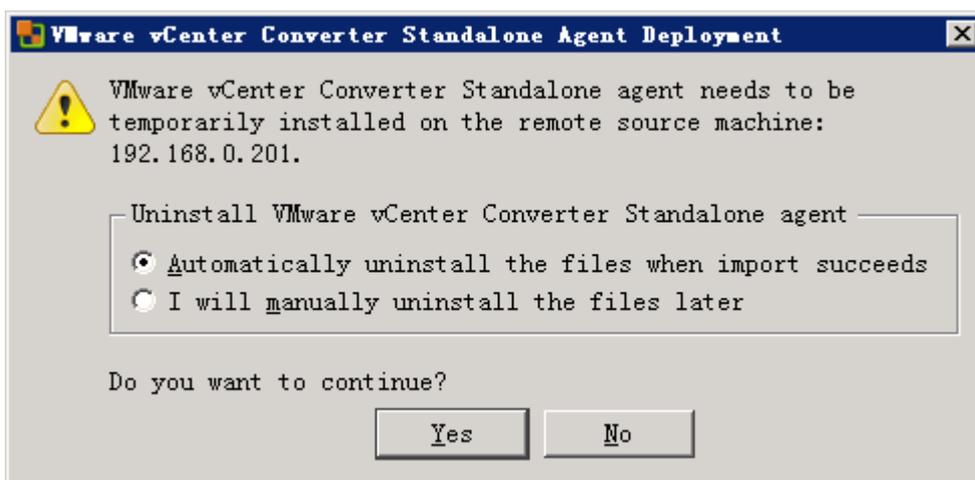
选择[Convert machine]



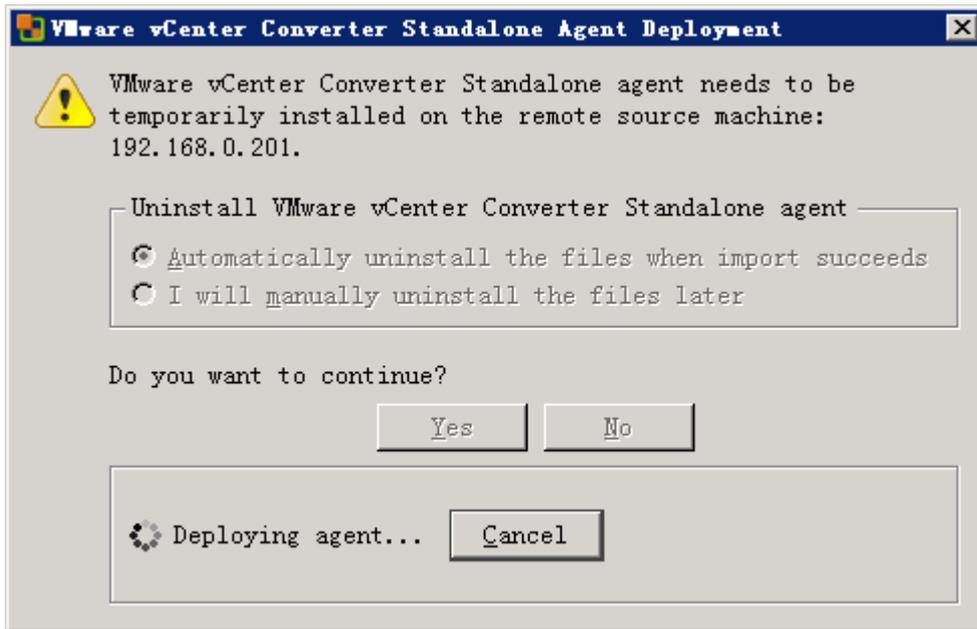
选择 A remote machine 项，输入源服务器地址，管理员用户，密码，系统类型。



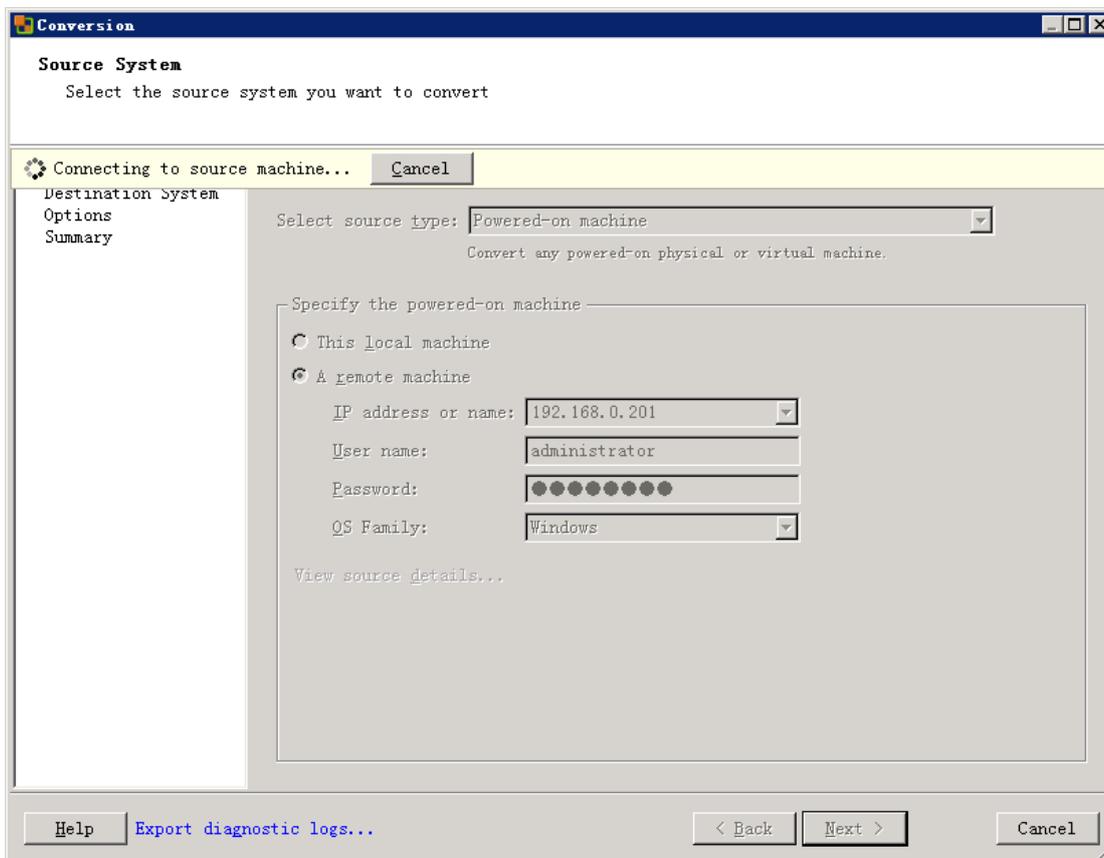
选择完成后代理自动卸载选项



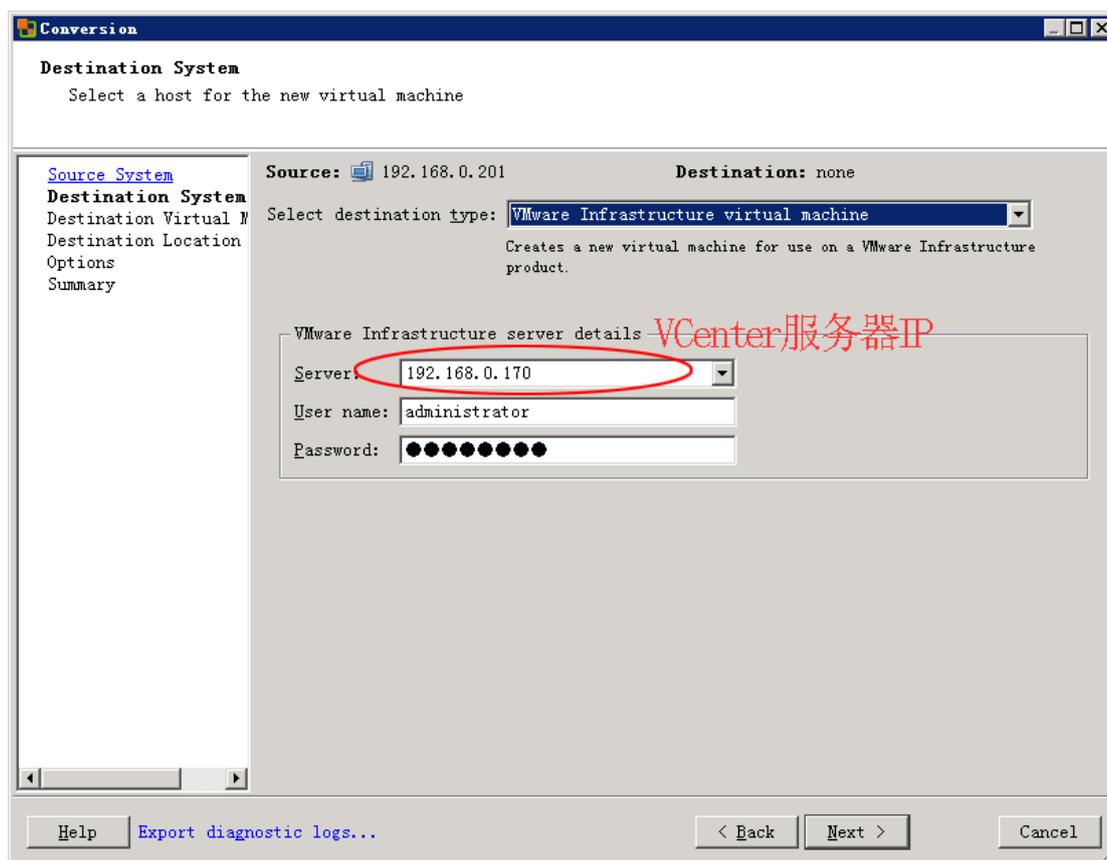
远程部署代理



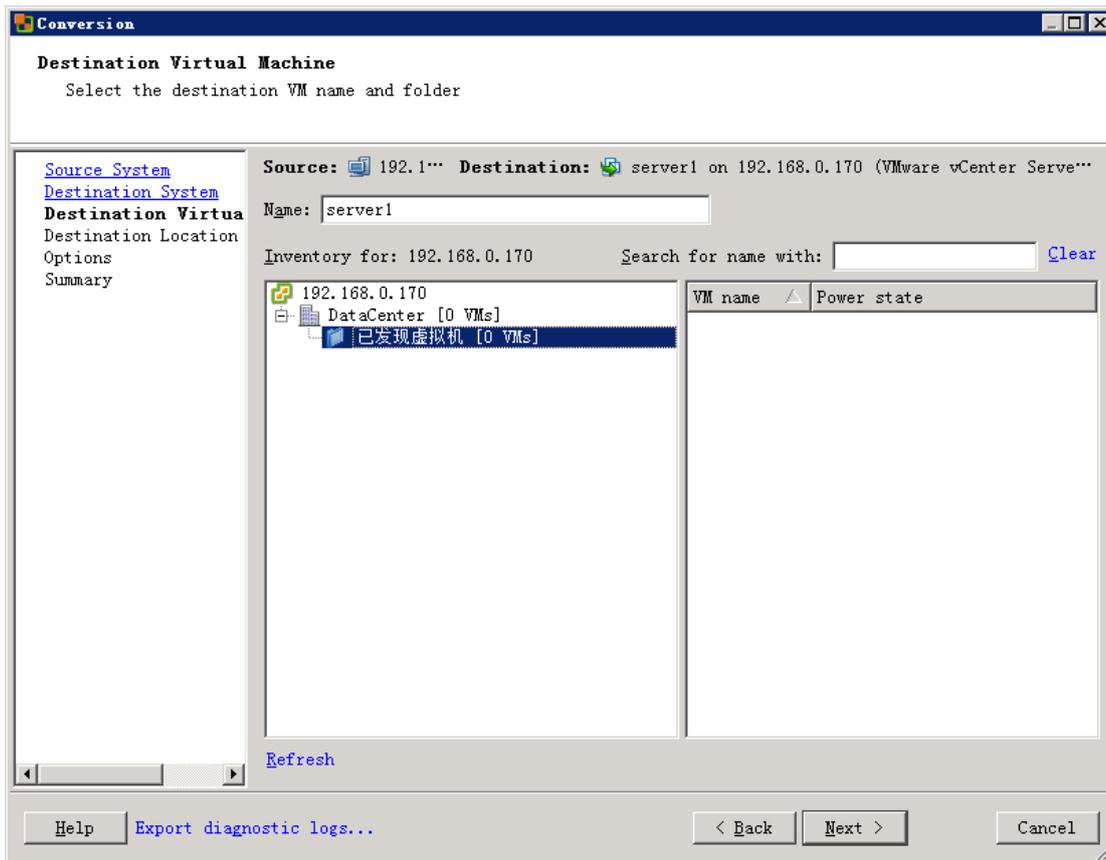
代理部署完成后，Converter服务器试图与源服务器上的代理连接



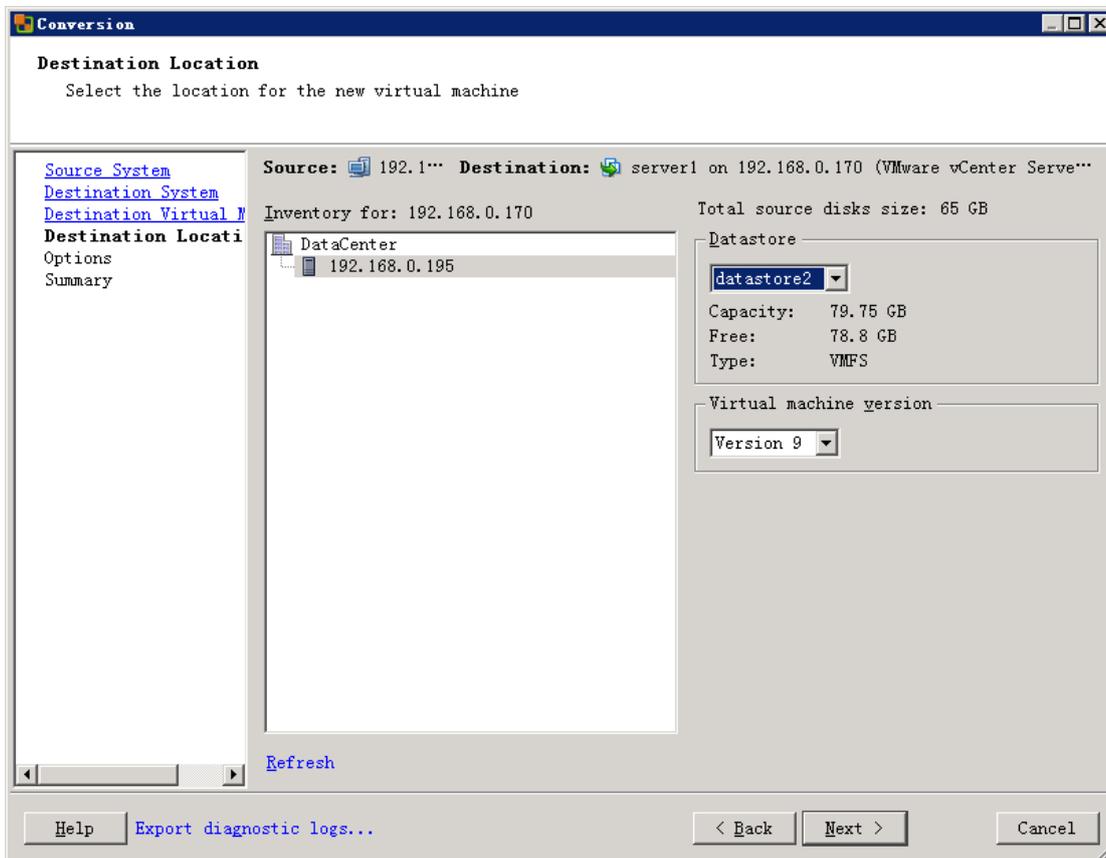
Converter服务器与源服务器代理建立连接后，即可设置目标位置的参数，设置中选择目标类型 VMware Infrastructure virtual machine(即Vcenter管理的VMware虚拟化服务器平台环境)，输入目标地址(vCenter Server IP)，用户名，密码。

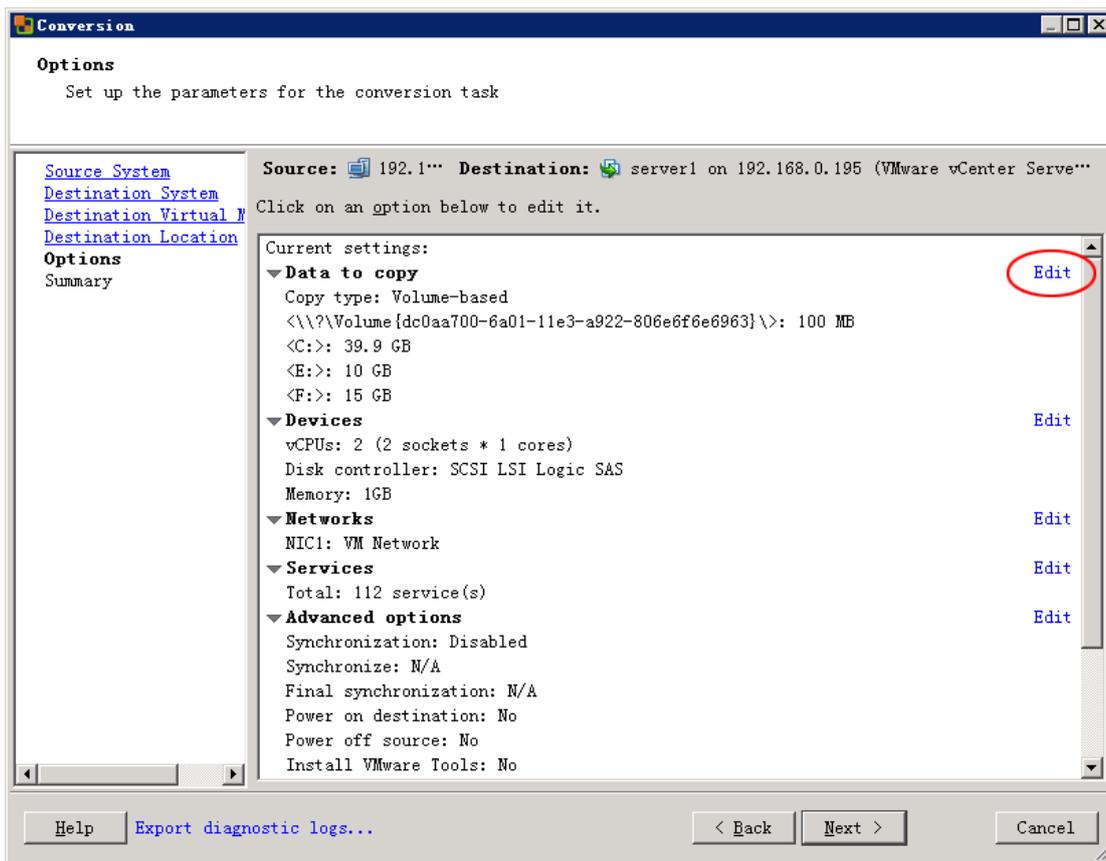


接下来输入转换后虚拟机服务器的名称“Server1”

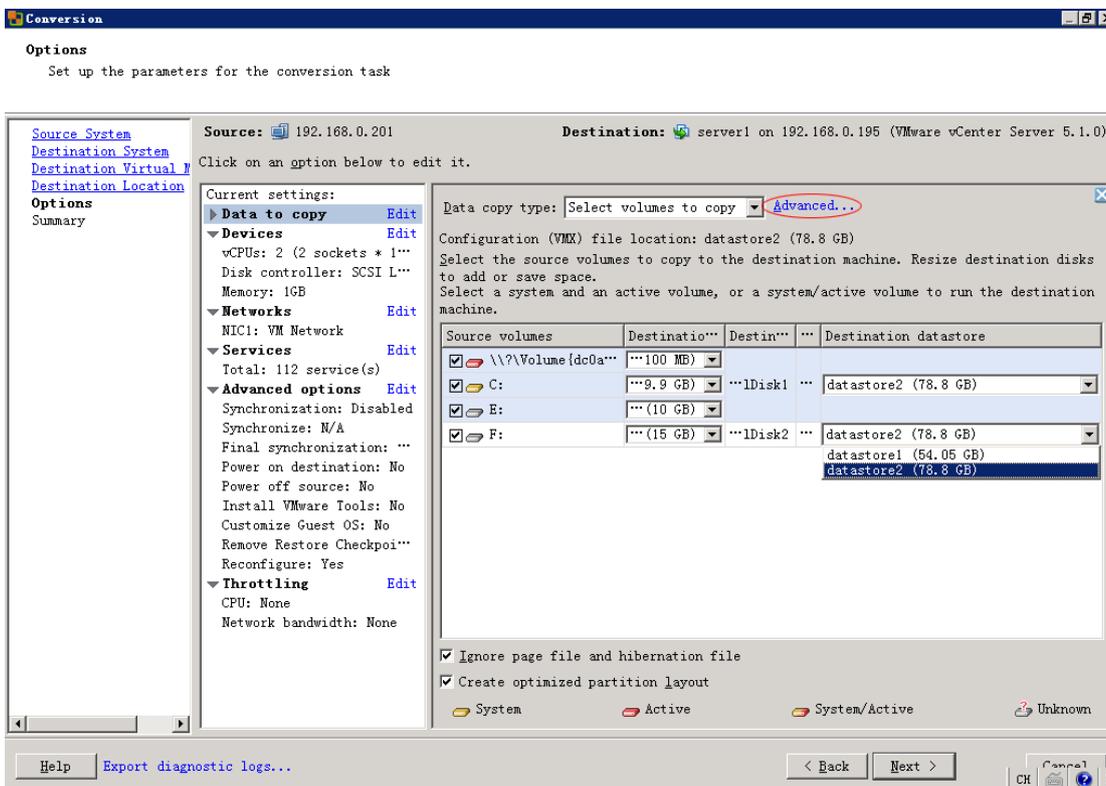


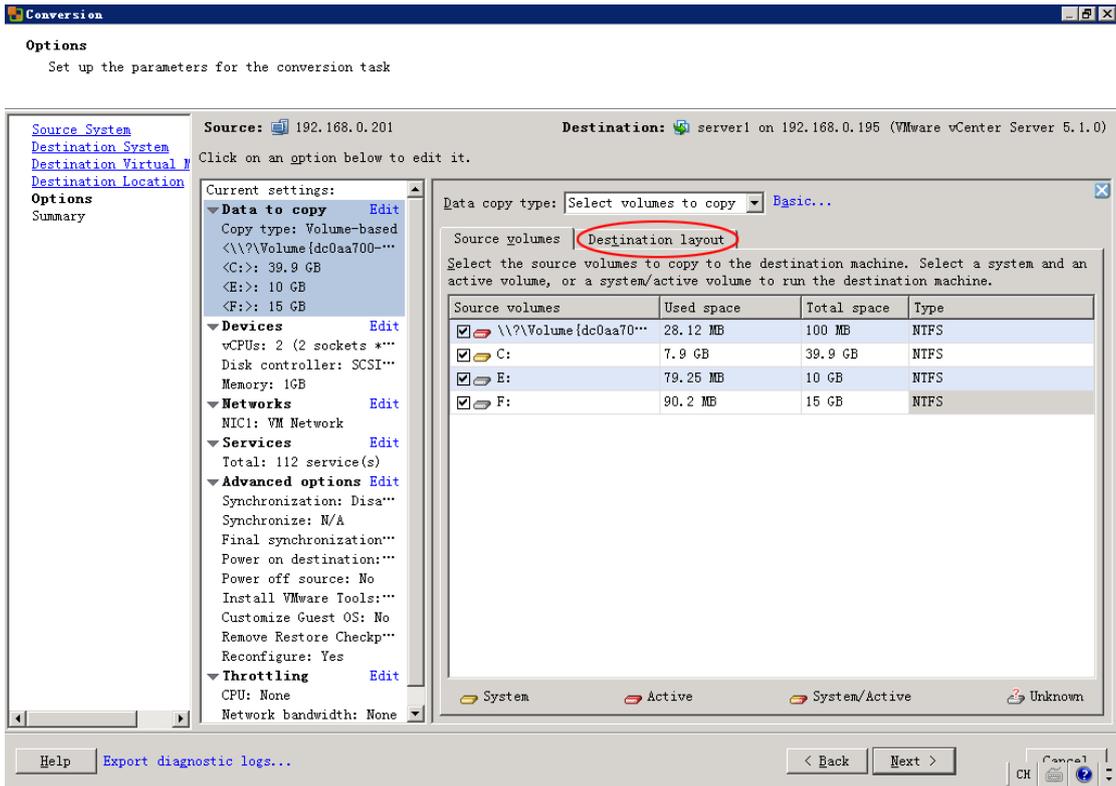
选择ESXi主机及ESXi主机的存储，本次选择datastore2



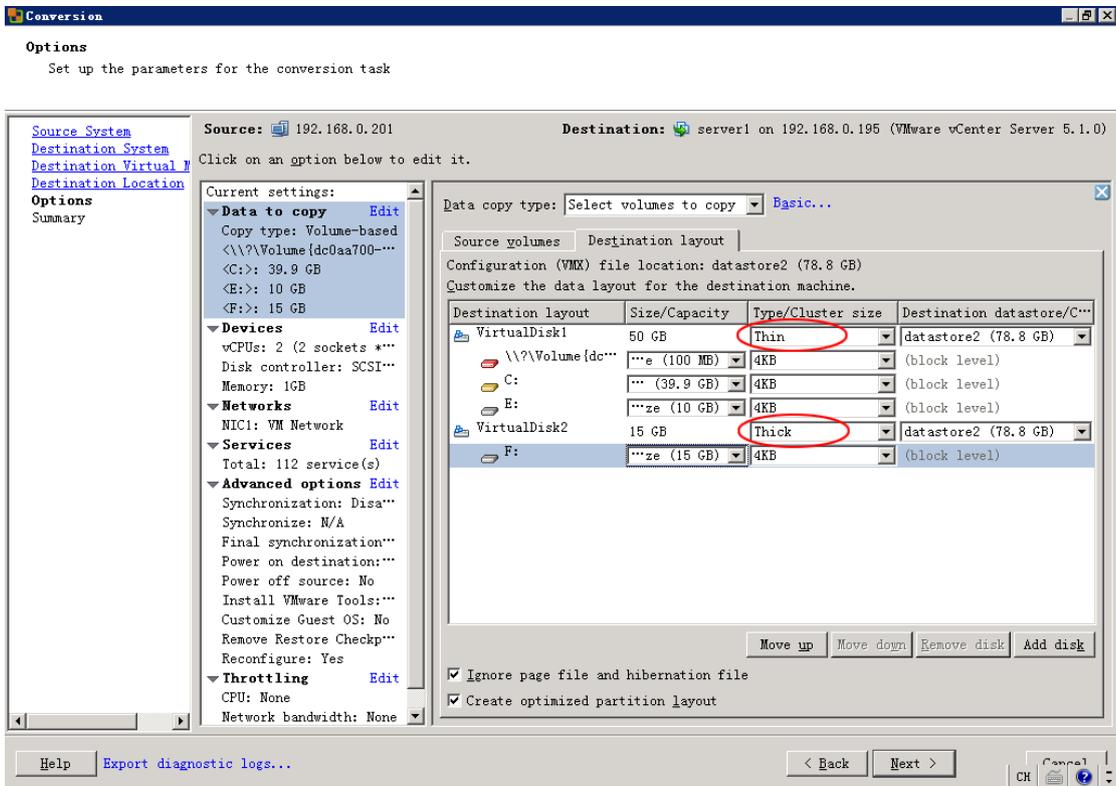


选择[高级]选项，可调整待转换系统磁盘分区与虚拟机虚拟磁盘文件相关的参数





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。



调整后，下一步

Conversion

Summary
Review the conversion parameters

Source: 192.1... Destination: server1 on 192.168.0.195 (VMware vCenter Serve...)

[Source System](#)
[Destination System](#)
[Destination Virtual M...](#)
[Destination Location](#)
[Options](#)
Summary

Source system information	
Source type:	Powered-on machine
Name/IP address:	192.168.0.201
Connected as:	administrator
OS family:	Windows
CPU throttling:	None
Network throttling:	None

Destination system information	
Virtual machine name:	server1
Hardware version:	Version 9
Host/Server:	192.168.0.170
Connected as:	administrator
VM folder:	已发现虚拟机
Host system:	192.168.0.195
Resource pool:	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
Storage:	Volume-based cloning

Conversion

Summary
Review the conversion parameters

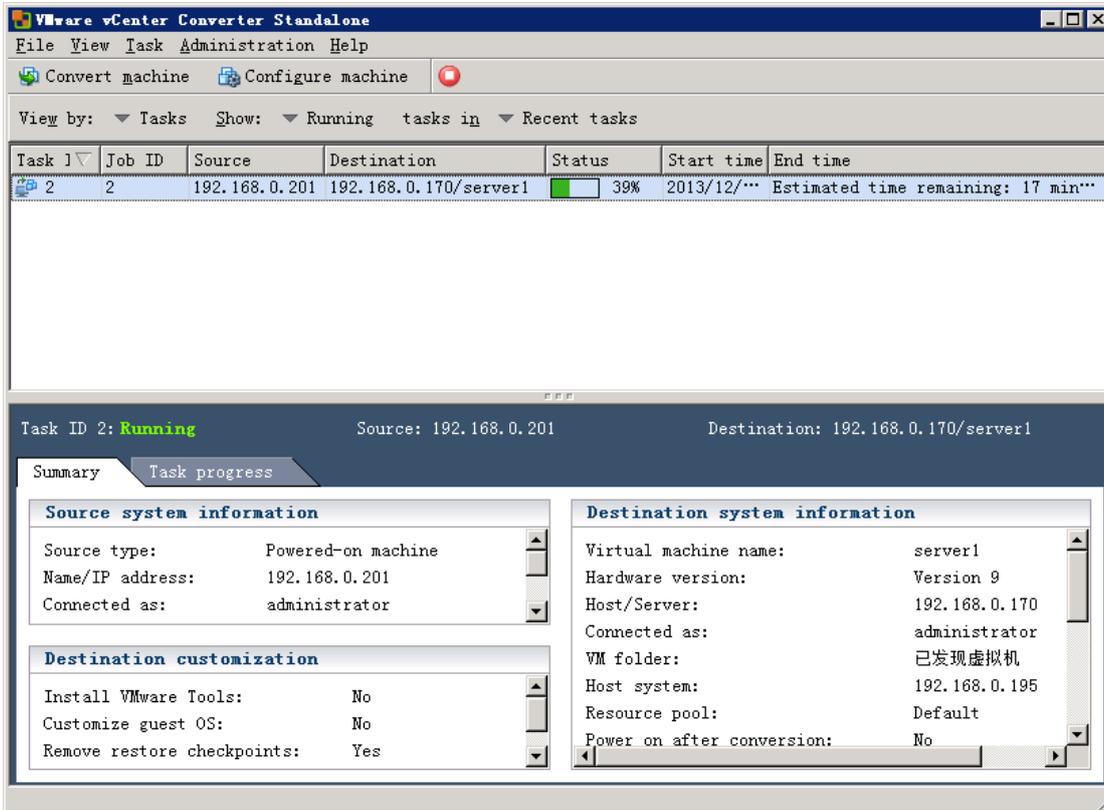
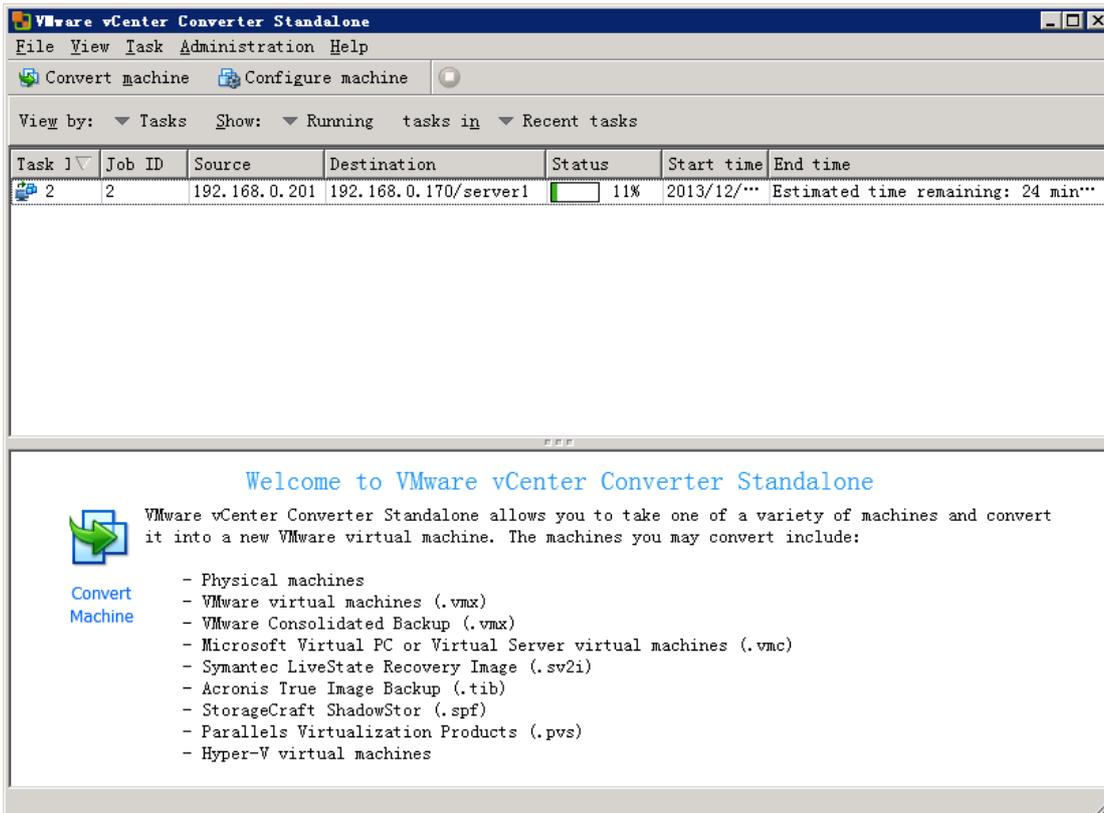
Submitting job...

[Destination System](#)
[Destination Virtual M...](#)
[Destination Location](#)
[Options](#)
Summary

Source system information	
Source type:	Powered-on machine
Name/IP address:	192.168.0.201
Connected as:	administrator
OS family:	Windows
CPU throttling:	None
Network throttling:	None

Destination system information	
Virtual machine name:	server1
Hardware version:	Version 9
Host/Server:	192.168.0.170
Connected as:	administrator
VM folder:	已发现虚拟机
Host system:	192.168.0.195
Resource pool:	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
Storage:	Volume-based cloning

开始转换



完成

VMware vCenter Converter Standalone

File View Task Administration Help

Convert machine Configure machine

View by: Tasks Show: Running, Failed, Completed, Queued, Canceled tasks in Past day

Task ID	Job ID	Source	Destination	Status	Start time	End time
2	2	192.168.0.201	192.168.0.170/server1	Completed	2013/12/21 16:48:25	2013/12/21 17:22:09

Task ID 2: **Completed** Source: 192.168.0.201 Destination: 192.168.0.170/server1

Summary Task progress

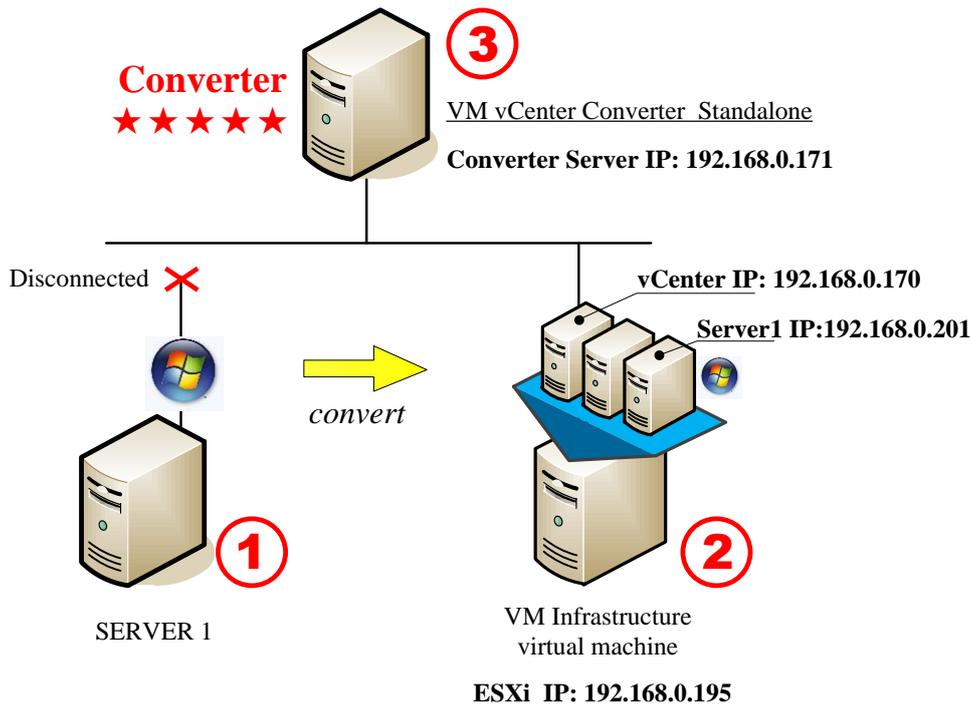
Conversion status

Type: P2V
Created: 2013/12/21 16:48:25 by Admin
Status: Completed
Started: 2013/12/21 16:48:25
Completed: 2013/12/21 17:22:09
Running time: 33 minutes
Average transfer rate: 38.74 MB/s

Log highlights [Export logs...](#)

2013/12/21 17:21:29 event.UninstallingAgentFrom
2013/12/21 17:21:29 event.CustomizationComplete
2013/12/21 17:20:21 event.CustomizationDeployin
2013/12/21 17:20:21 event.CustomizationCreating
2013/12/21 17:19:18 event.CustomizationStartedE
2013/12/21 17:18:12 event.ReconfigurationComple
2013/12/21 17:16:20 event.ReconfigurationApplyi
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

