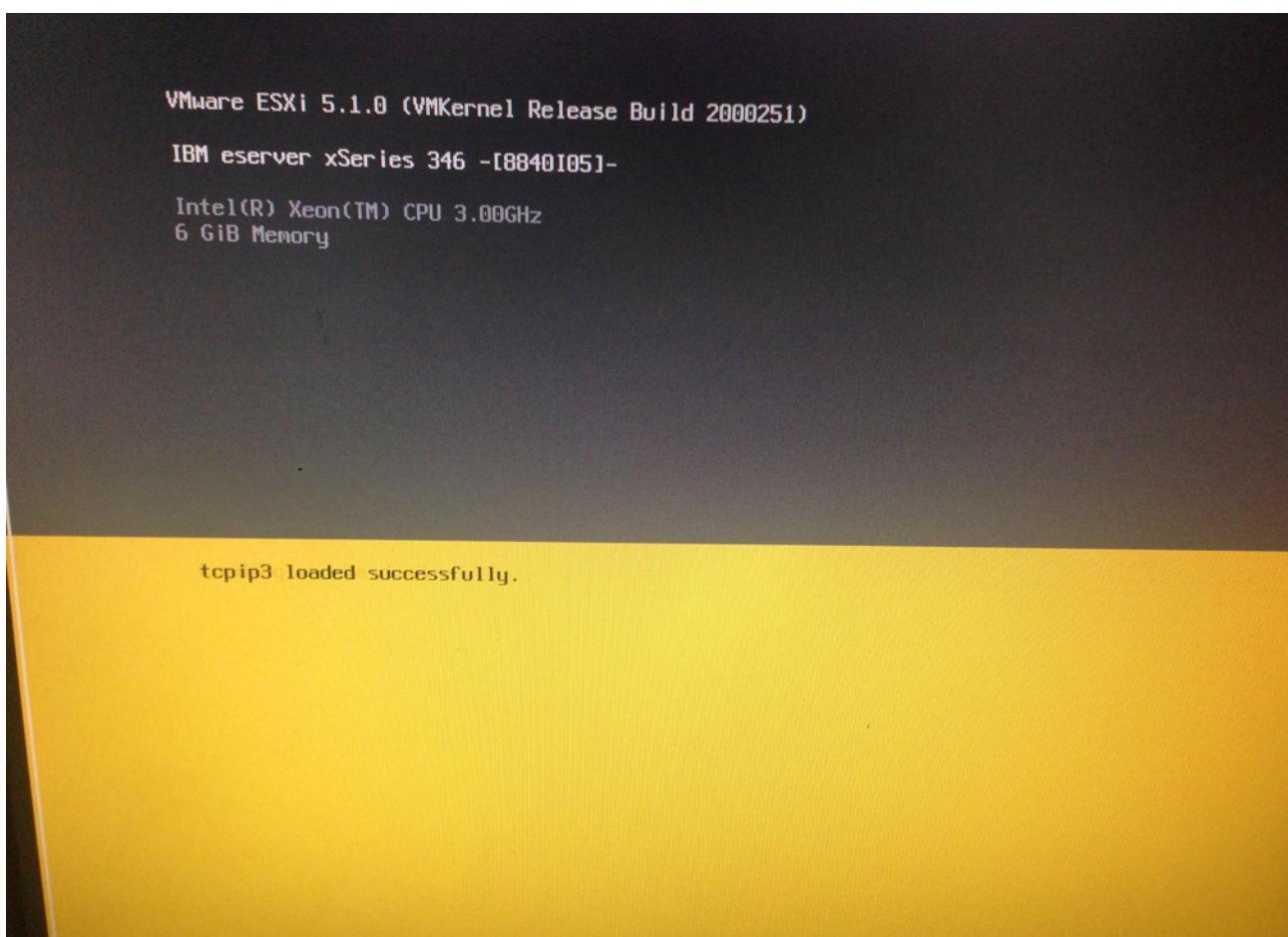
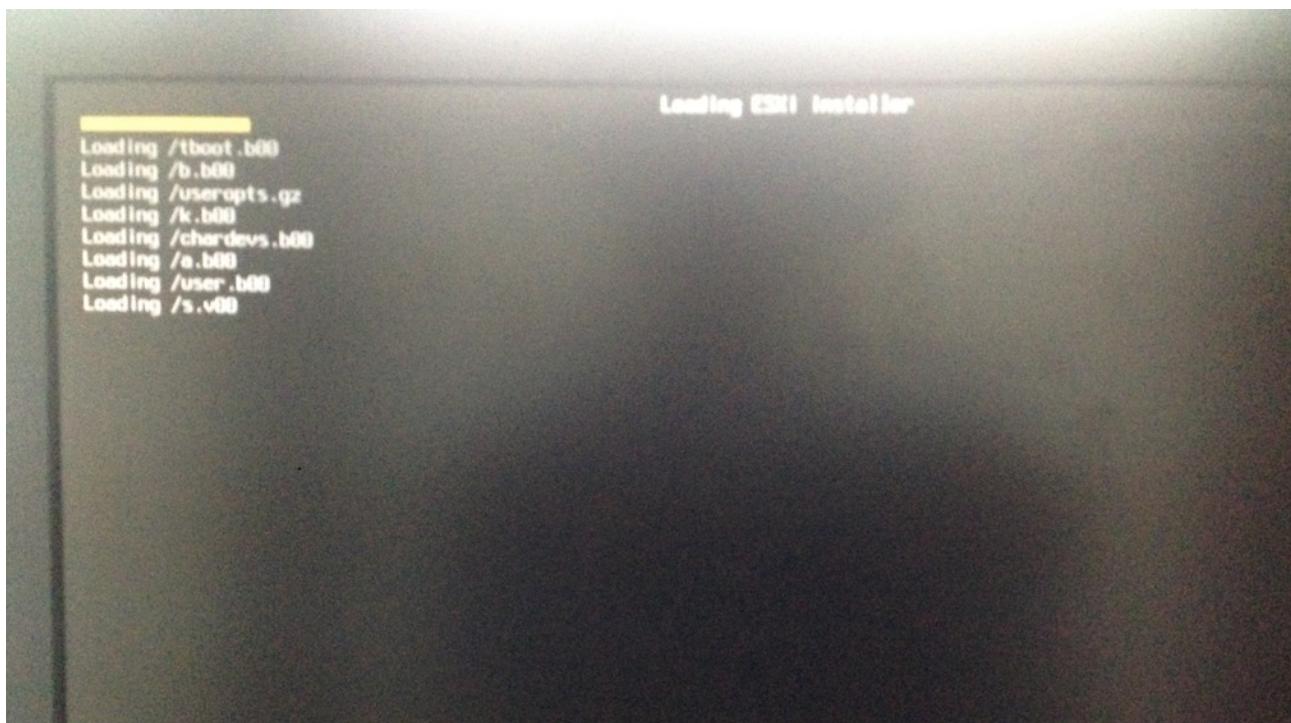


虚拟化平台的搭建

虚拟化，简单讲，可以实现将一台计算机虚拟化为若干台逻辑计算机，每个逻辑计算机能运行不同操作系统而且互不干扰，能较大提高资源利用率，通过虚拟化平台的搭建，可以通过客户端实现对不同服务器统一的管理，实现资源动态调度、安全部署和实时动态监控等功能，简单便捷。

一、ESXI的安装和配置

ESXI类似于一个操作系统，可安装至虚拟机，即刻下载和运行虚拟设备，实现降低配置要求和简化部署，将光盘放置机器引导安装，以下以VMware ESXI 5.1.0版本为例，



Select a Disk to Install or Upgrade

* Contains a VMFS partition

Storage Device	Capacity
<hr/>	
Local:	
IBM SERVERAID (mpx.vmhba1:C0:T0:L0)	341.83 GiB
Remote:	
(none)	

(Esc) Cancel (F1) Details (F5) Refresh (Enter) Continue

VMware ESXi 5.1.0 Installer

Rebooting Server

The server will shut down and reboot.

The process will take a short time to complete.

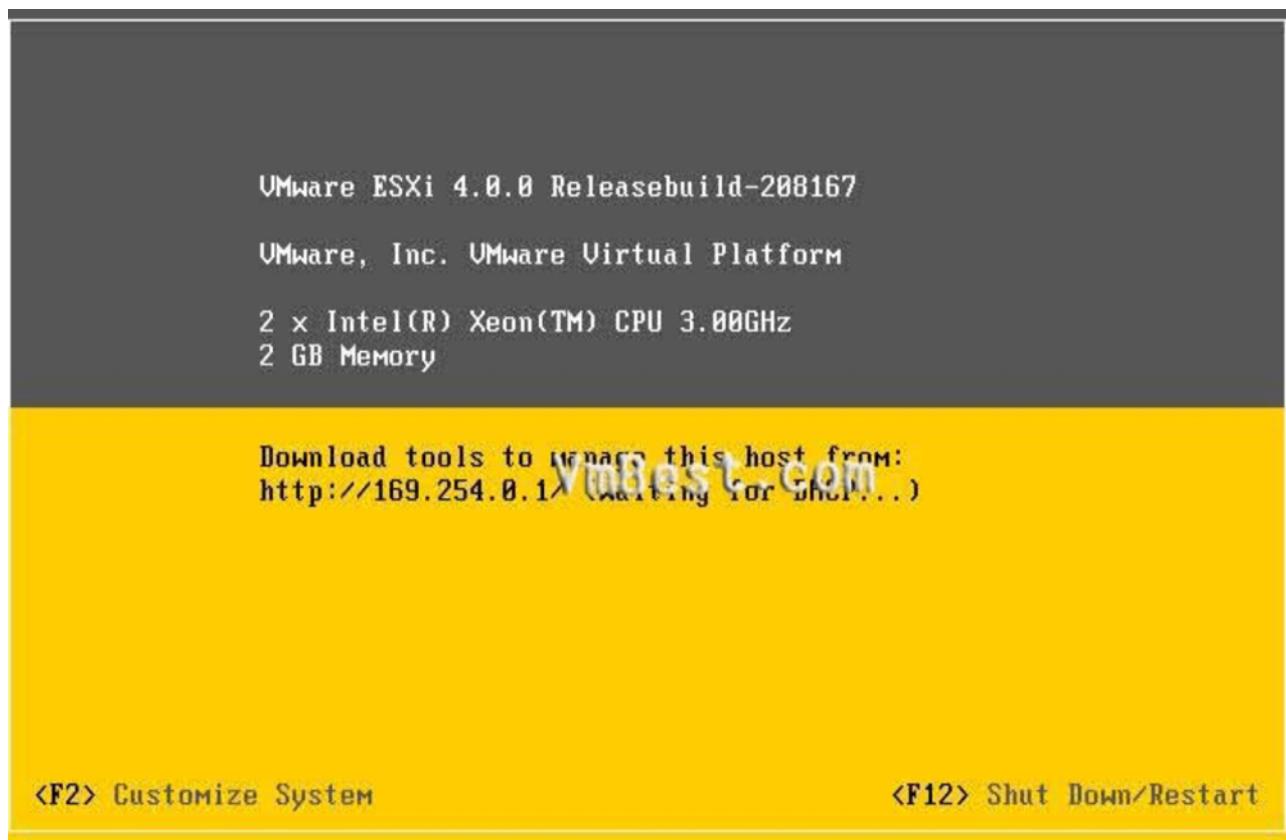
由于机房资源有限，作为试验用的服务器比较老旧，配置不符，无法完成最终的安装，以下以网络上4.0版本作为例子进行描述，安装方法与上面一致，当装载完毕时，会出现完成进度条，此速度由硬件性能等因素决定，



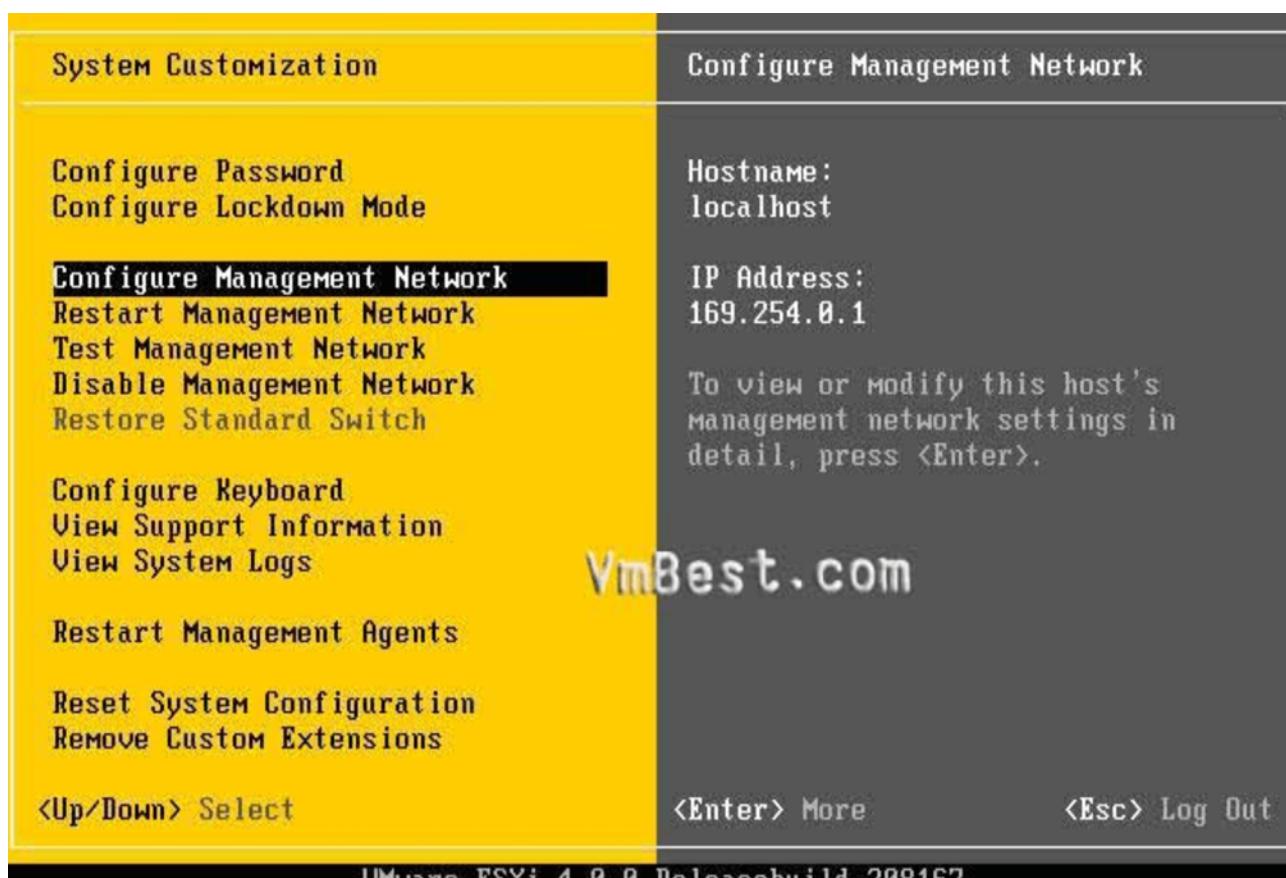
安装完成后，同意协议，即出现以下完成界面，



进入系统后，需要对ESXi进行配置，

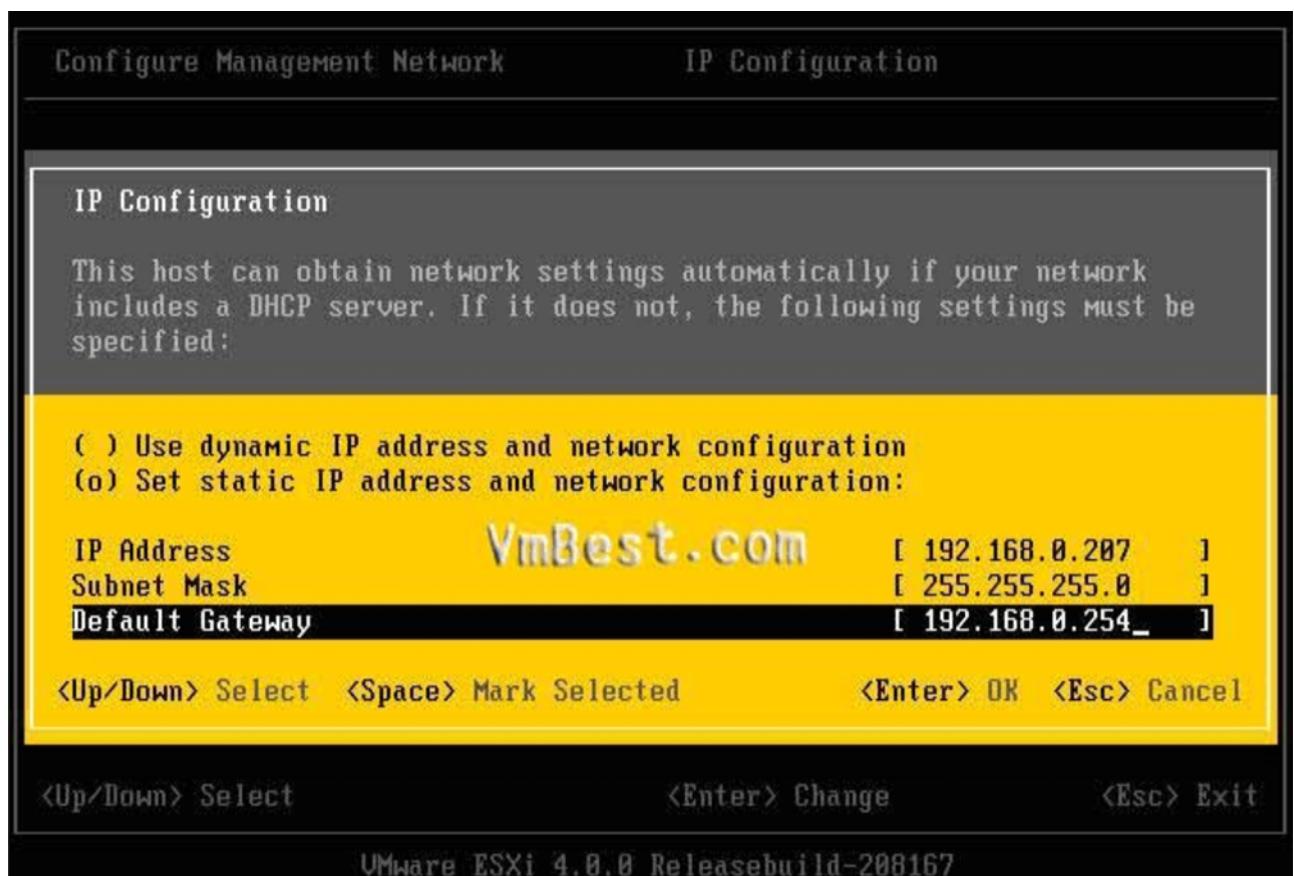


按F2进入定义系统设置，选择IP配置，





按下回车后，输入IP地址，



配置完成后，会提示复位网络，同意即可，同样可以设置DNS，回车后确认。以上即为ESXI的安装和配置。

二、Vmware vSphere Client和vCenter

1、VC的下载和使用

公司作为测试用的ESXi主机IP地址为10.88.1.9，在IE浏览器地址栏输入该IP回车后，即可在该页面下载vSphere Client客户端，

VMware ESXi 5.1

Welcome

Getting Started

If you need to access this host remotely, use the following program to install vSphere Client software. After running the installer, start the client and log in to this host.

- Download vSphere Client

To streamline your IT operations with vSphere, use the following program to install vCenter. vCenter will help you consolidate and optimize workload distribution across ESX hosts, reduce new system deployment time from weeks to seconds, monitor your virtual computing environment around the clock, avoid service disruptions due to planned hardware maintenance or unexpected failure, centralize access control, and automate system administration tasks.

- Download VMware vCenter

If you need more help, please refer to our documentation library:

- vSphere Documentation

You are running Dell Customized VMware ESXi 5.1.0 (VMKernel Release Build 799733)

- Click here to visit support.dell.com

For Administrators

vSphere Remote Command Line

The Remote Command Line allows you to use command line tools to manage vSphere from a client machine. These tools can be used in shell scripts to automate day-to-day operations.

- Download the Virtual Appliance
- Download the Windows Installer (.exe)
- Download the Linux Installer (.tar.gz)

Web-Based Datastore Browser

Use your web browser to find and download files (for example, virtual machine and virtual disk files).

- Browse datastores in this host's inventory

For Developers

vSphere Web Services SDK

Learn about our latest SDKs, Toolkits, and APIs for managing VMware ESX, ESXi, and VMware vCenter. Get sample code, reference documentation, participate in our Forum Discussions, and view our latest Sessions and Webinars.

- Learn more about the Web Services SDK
- Browse objects managed by this host

Copyright © 1998-2012 VMware, Inc. All rights reserved. This product is protected by U.S. and international copyright and intellectual property laws. VMware products are covered by one or more patents listed at <http://www.vmware.com/go/patents>.

VMware is a registered trademark or trademark of VMware, Inc. in the United States and/or other jurisdictions. All other marks and names mentioned herein may be trademarks of their respective companies.

VMware products may contain individual open source software components, each of which has its own copyright and applicable license conditions. Please visit <http://www.vmware.com/info?id=1127> for more information.

点击“Downlowd”进行安装，安装完成后桌面会有VC快捷方式，输入用户名和密码即可访问ESXI主机，用户名为root，



连接后可登录VC界面，可以看出跟workstation界面和功能差不多，

10.88.1.9 - vSphere Client

什么是主机？

主机是使用虚拟化软件（例如 ESX 或 ESXi）运行虚拟机的计算机。主机提供虚拟机使用的 CPU 和内存资源，同时为虚拟机提供存储器访问权和网络连接的能力。

要向主机添加虚拟机，可以创建新虚拟机或部署虚拟设备。

要添加虚拟机，最简单的方法是部署虚拟设备。虚拟设备是已安装操作系统和软件的预建虚拟机。新虚拟机将需要安装操作系统，例如 Windows 或 Linux。

基本任务

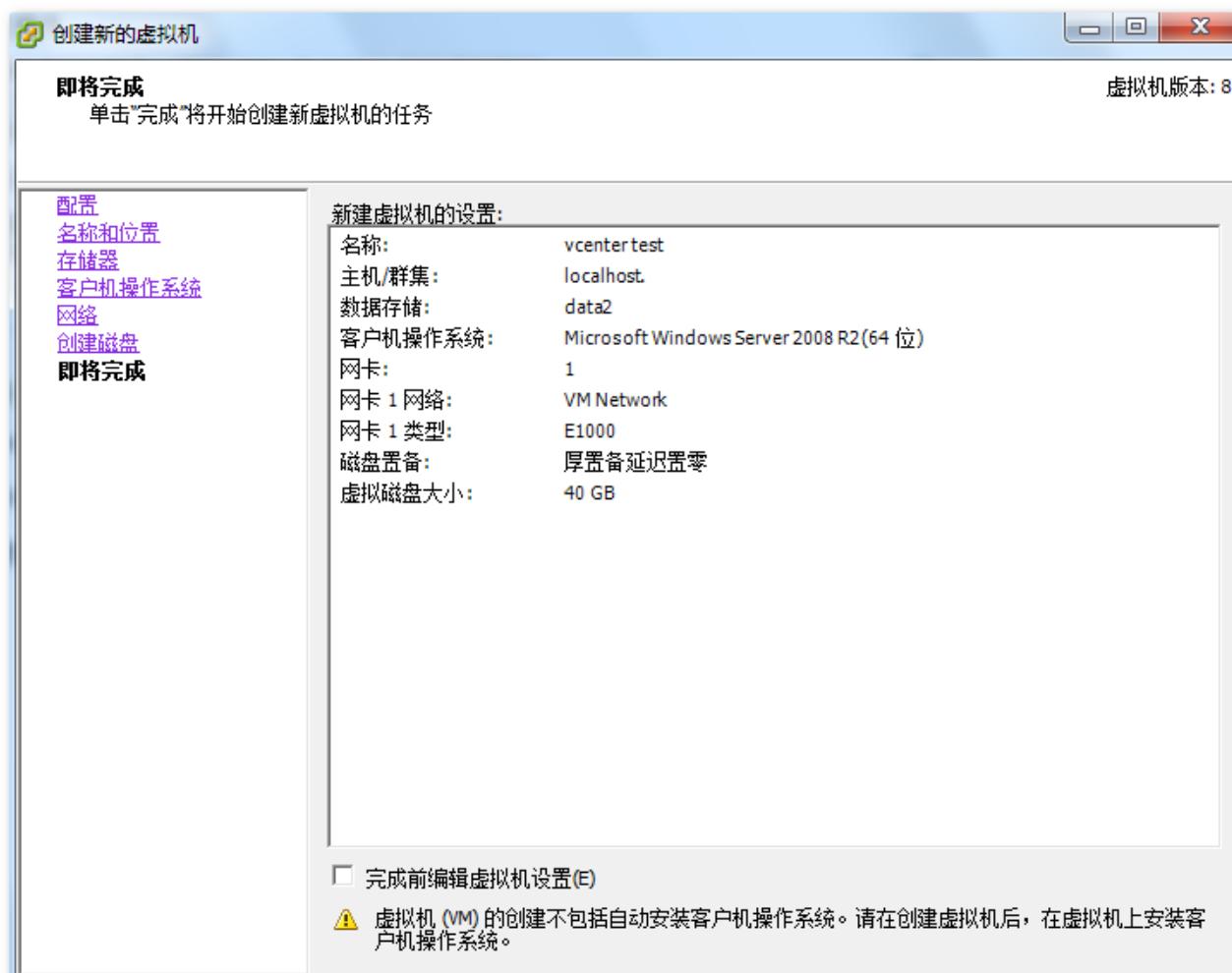
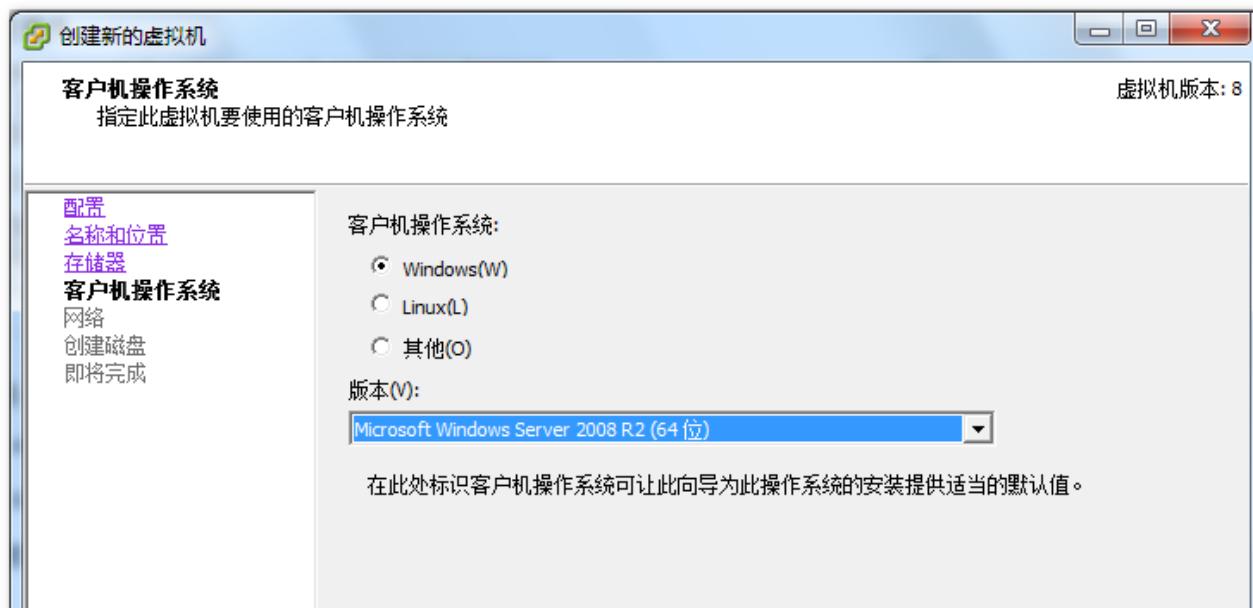
- 从 vCenter Server 管理此主机
- 从 VA Marketplace 部署
- 创建新虚拟机

名称	目标	状态	详细信息	启动者	请求开始时间	开始时间	完成时间

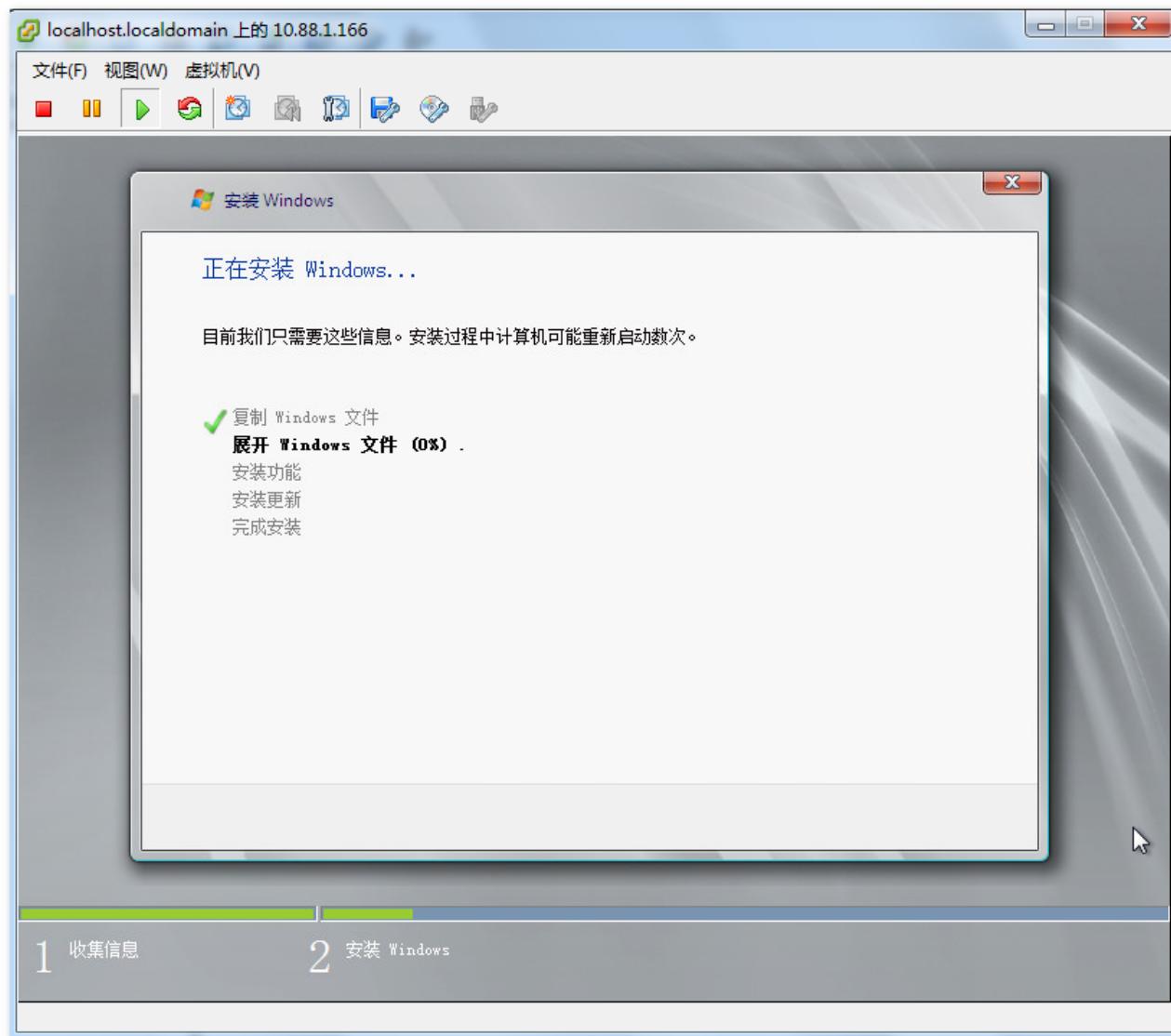
倘若要访问和管理其他ESXI宿主机，则需要用到vCenter Server，它可以以单一控制的点管理所有vSphere平台下的ESXI主机和ESXI主机里面的虚拟机，并可以提供更详细的虚拟架构信息，同时进行大规模的管理工作。

2、VCENTER的安装

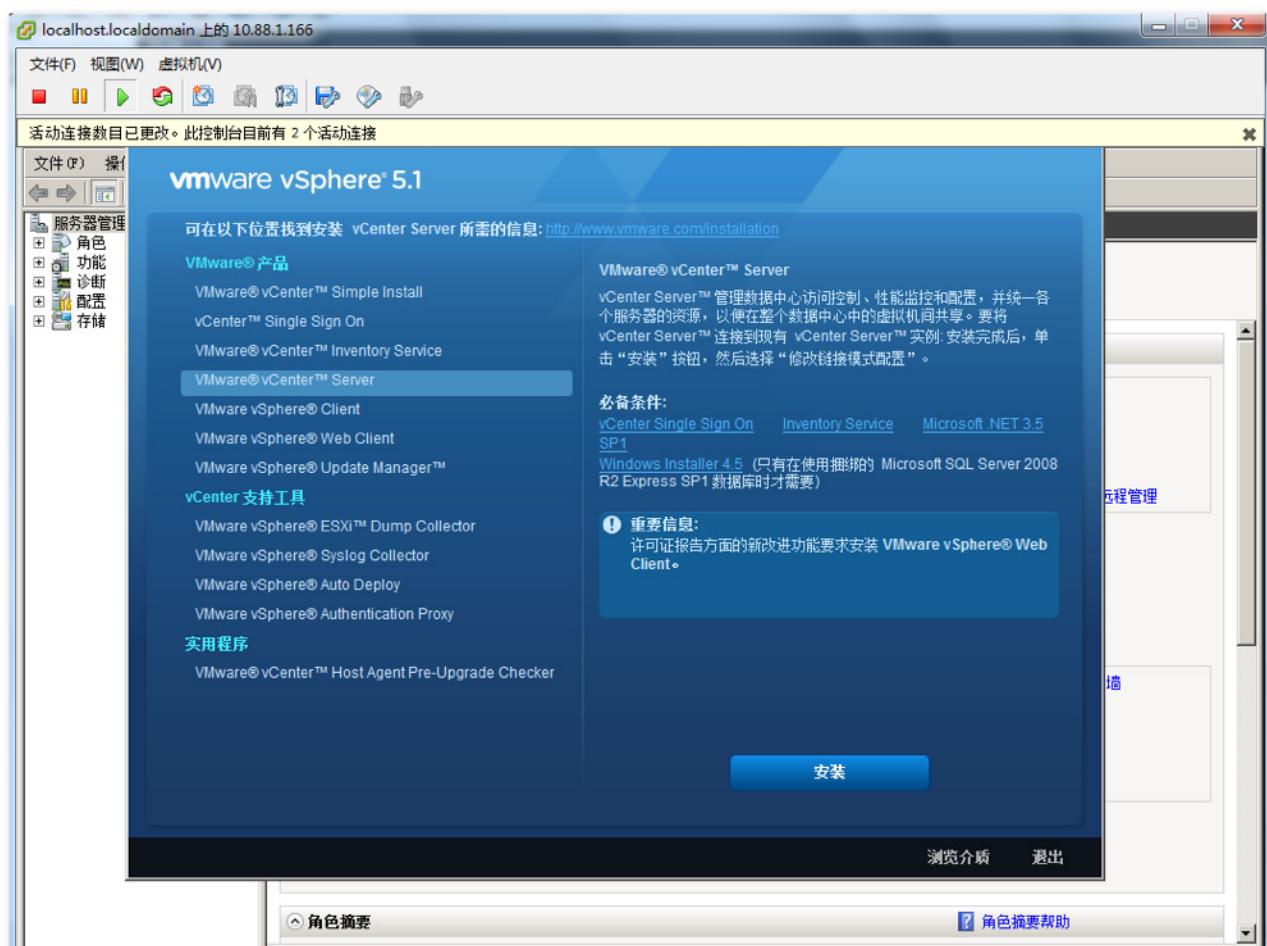
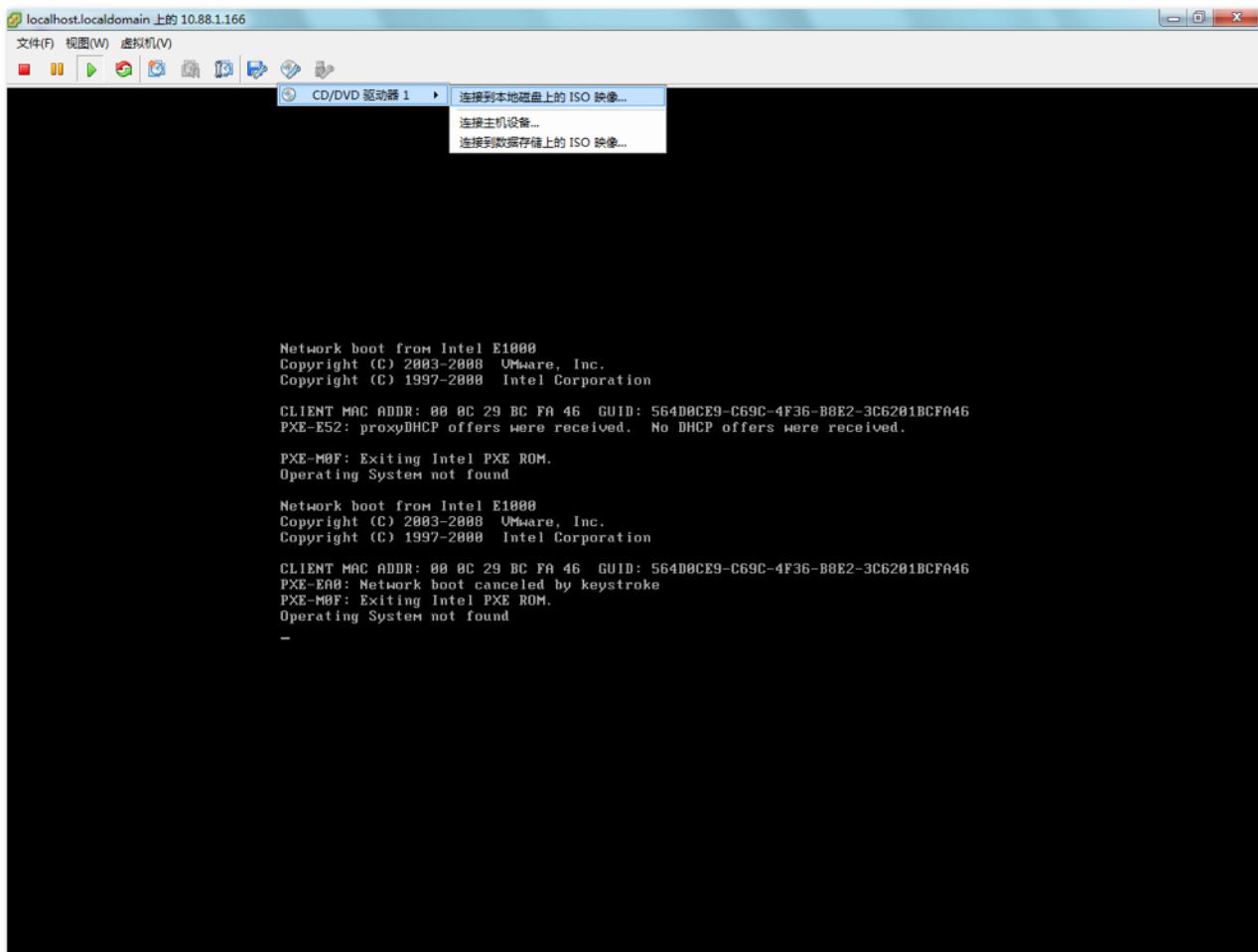
vCenter 可以直接安装在1.9下的虚拟机上，因此在1.9下直接配置台虚拟机，装上windows服务器系统，系统为windows server 2008R2，



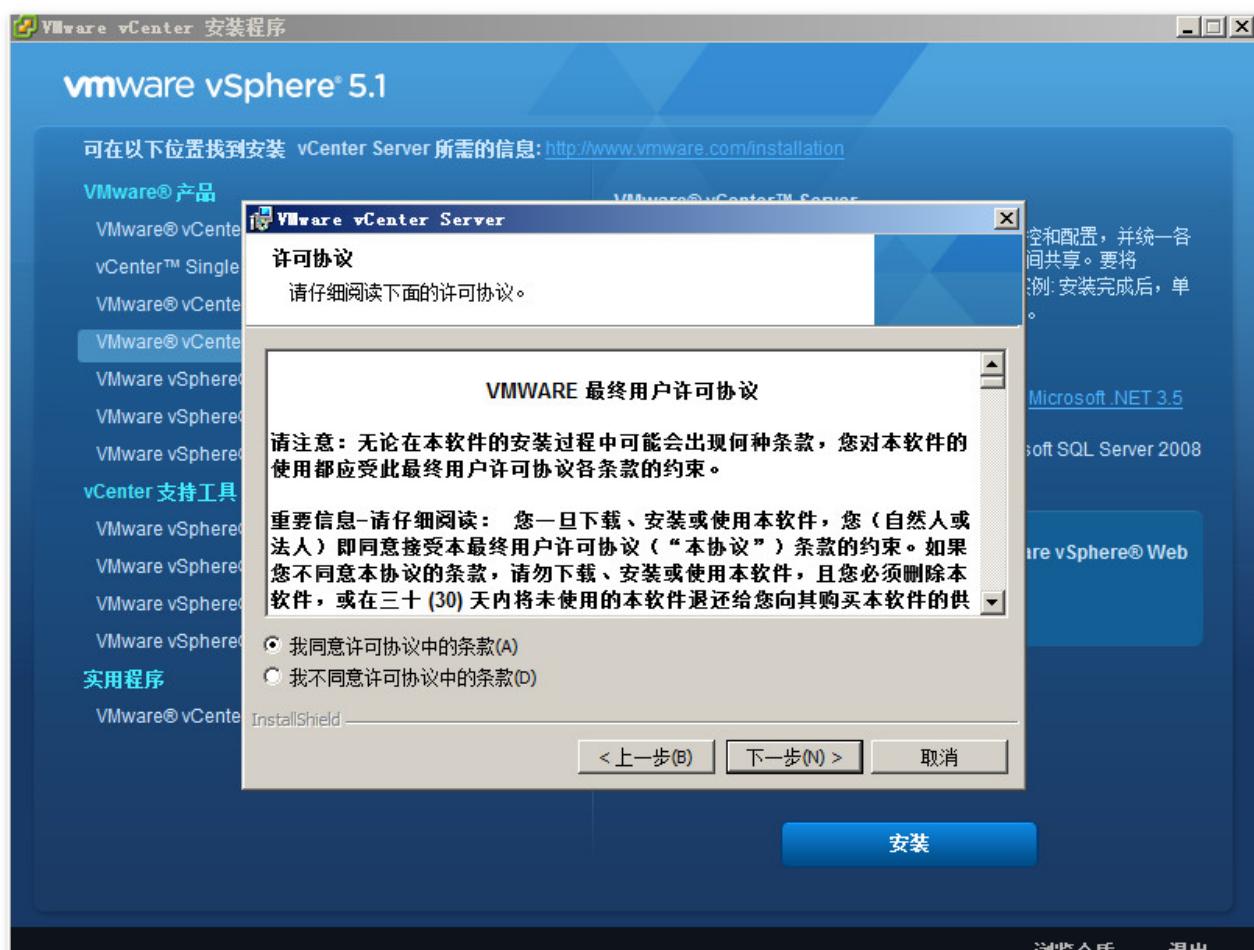
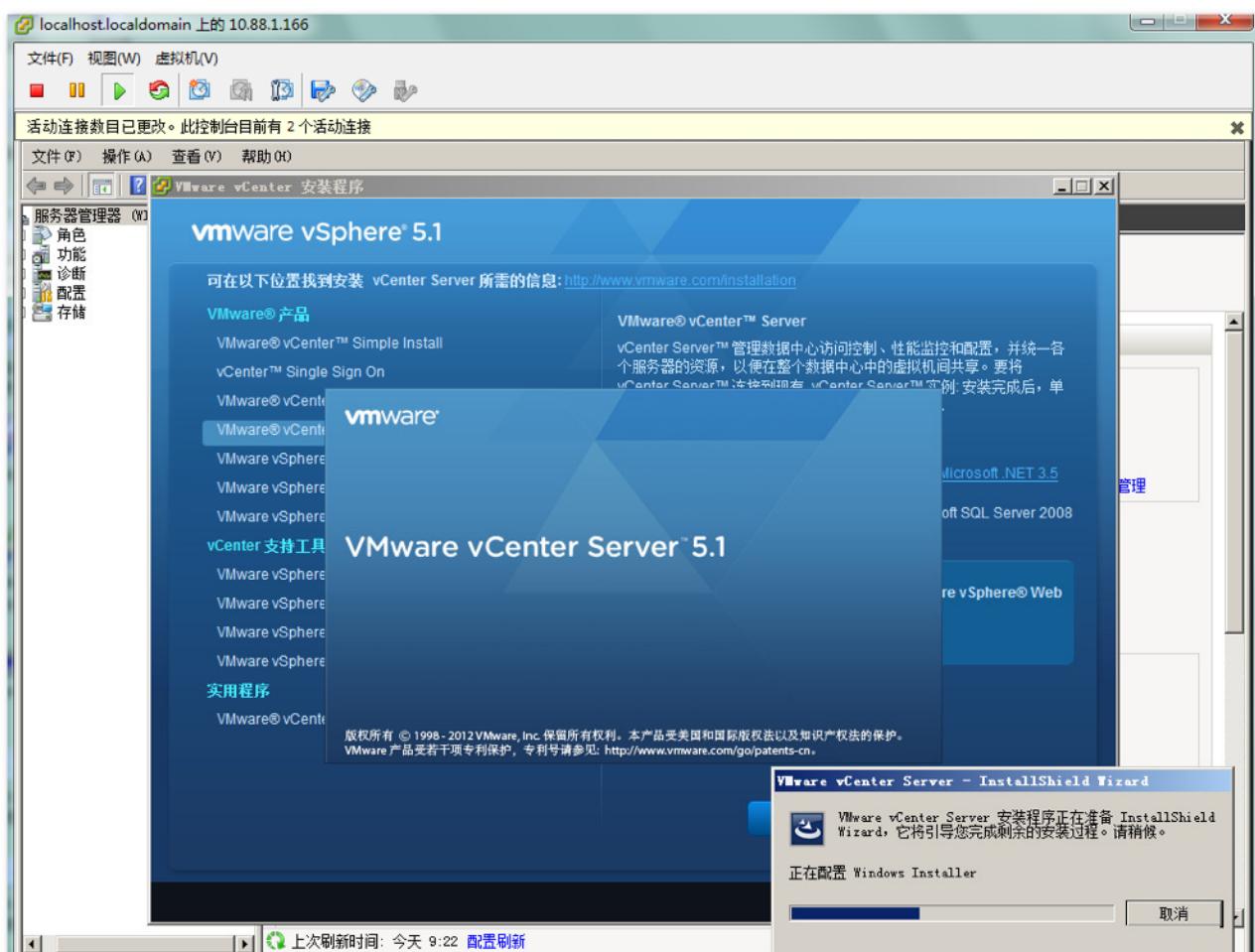
配置完成后即可开始安装，设置服务器IP为10.88.1.166，



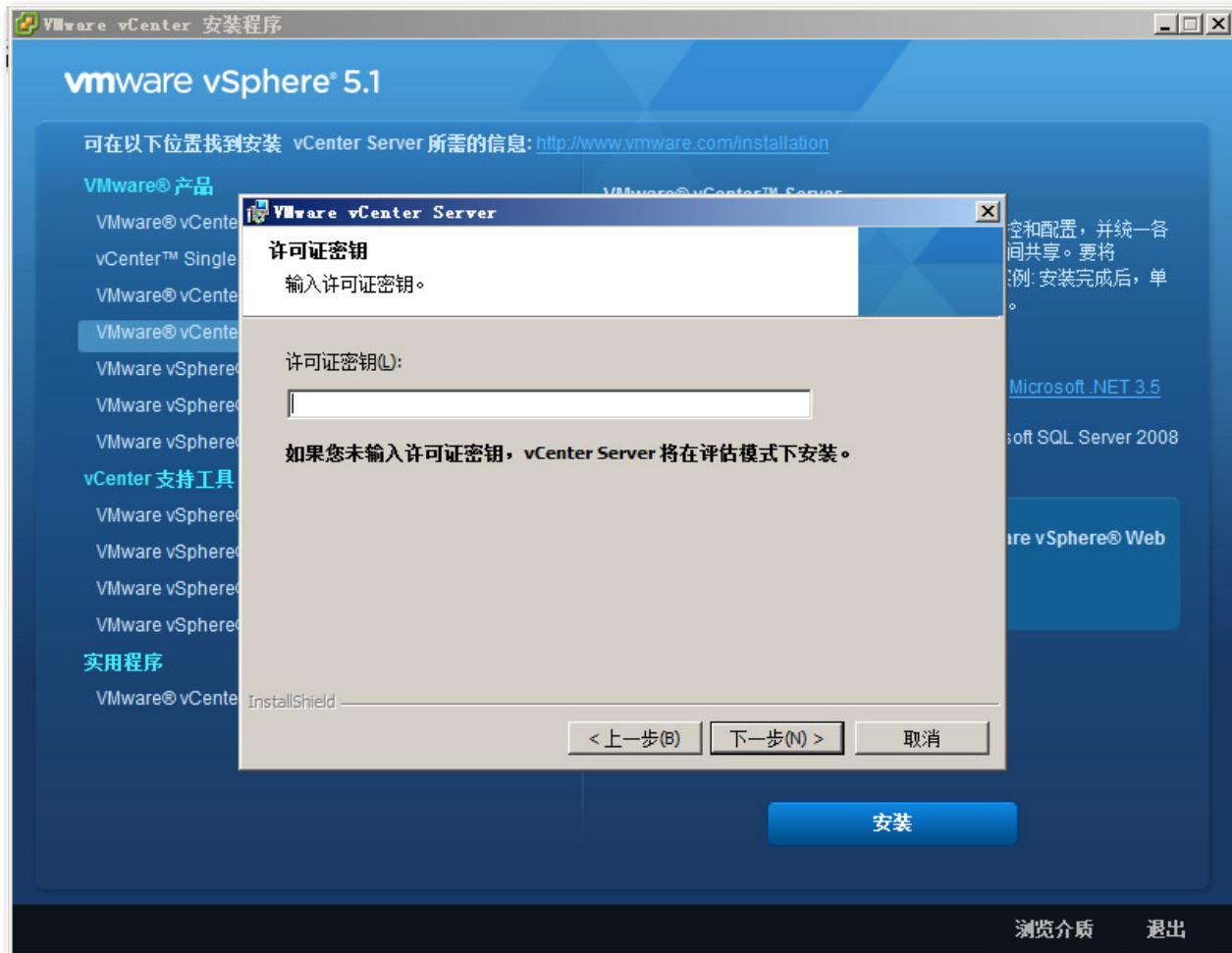
系统安装完成后，即可安装vCenter服务，打开服务器控制台，从驱动器中选择“连接到本地磁盘上的ISO镜像”，在弹出窗口中选择vCenter Server的ISO镜像即可，加载完成后即可出现vCenter Server的安装界面，



选择vCenter Server并点击安装，同意许可协议中的条款，



其中安装过程有提示需要许可证密钥，考虑到只是作为测试，直接跳过即可，也可使用部分简单功能，即评估模式，



vCenter安装完毕后，便可通过vClient客户端单点登录访问1.166从而管理所有的宿主机，包括1.9，不仅大大减小工作量和难度，而且加强和简化管理。后续的操作和原理将作为下一步的自行学习，本次功能的了解到此完毕。