**Creating and Managing Virtual Machines**

The VMware ESXi hosts are installed, vCenter Server is running, the

networks are blinking, the storage is carved, and the VMFS volumes are formatted. Let the virtualization begin! With the virtual infrastructure in place, you as the administrator must shift your attention to deploying the virtual machines. In this chapter,

* Create a virtual machine
* Install a guest operating system
* Install VMware Tools
* Manage virtual machines
* Modify virtual machines

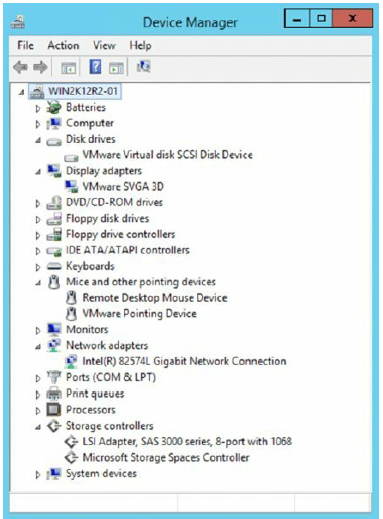
**Examining Virtual Machines from the Inside**

From the perspective of software running inside a VM, a VM is really just a collection of virtual hardware resources selected for the purpose of running a guest OS instance. So, what kind of virtual hardware makes up a VM? By default, VMware ESXi presents the following fairly generic hardware to the VM:

* Phoenix BIOS
* Intel 440BX motherboard
* Intel PCI AHCI controller
* IDE CD-ROM drive
* BusLogic parallel SCSI, LSI Logic parallel SCSI, or LSI Logic SAS

Controller

* AMD or Intel CPU, depending on the physical hardware
* Intel E1000, Intel E1000e, or AMD PCnet NIC
* Standard VGA video adapter



1. If it’s not already running, launch the vSphere Web Client, and connect to a vCenter Server instance. If a vCenter Server instance is not available, launch the vSphere Desktop Client and connect directly to an ESXi host.

2. In the inventory tree, right-click the name of a datacenter, a cluster, a resource pool, or an individual ESXi host, and select the New Virtual

Machine option,

3. When the New Virtual Machine Wizard opens, select Create A New Virtual Machine, and then click Next.

4. Type a name for the VM, select a location in the inventory list where the VM should reside, and click Next.

5. If you selected a cluster without vSphere DRS enabled or you are running vSphere DRS in manual mode, you’ll need to select a specific host within the cluster on which to create the VM, Select an

ESXi host from the list and then click Next.

6. Select a datastore where the VM files will be located.

