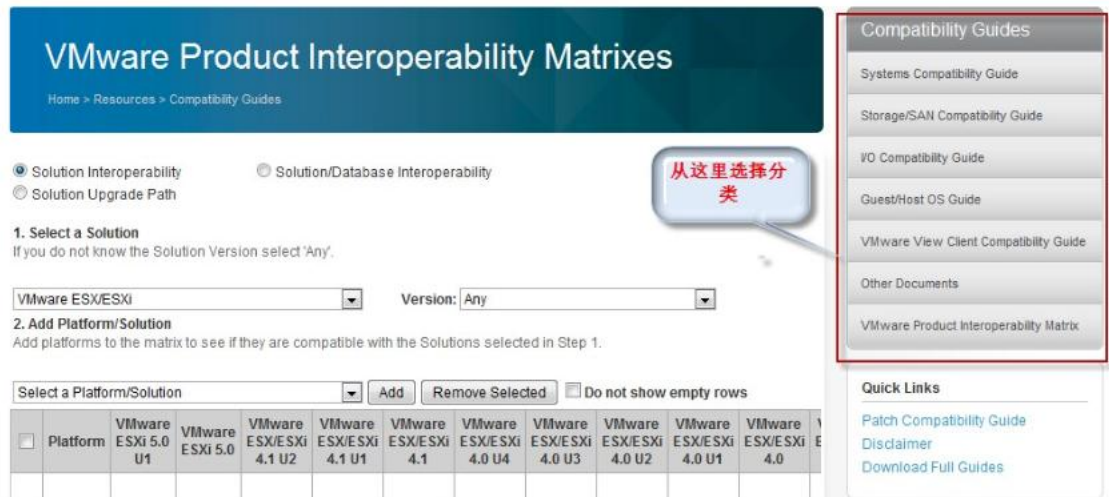
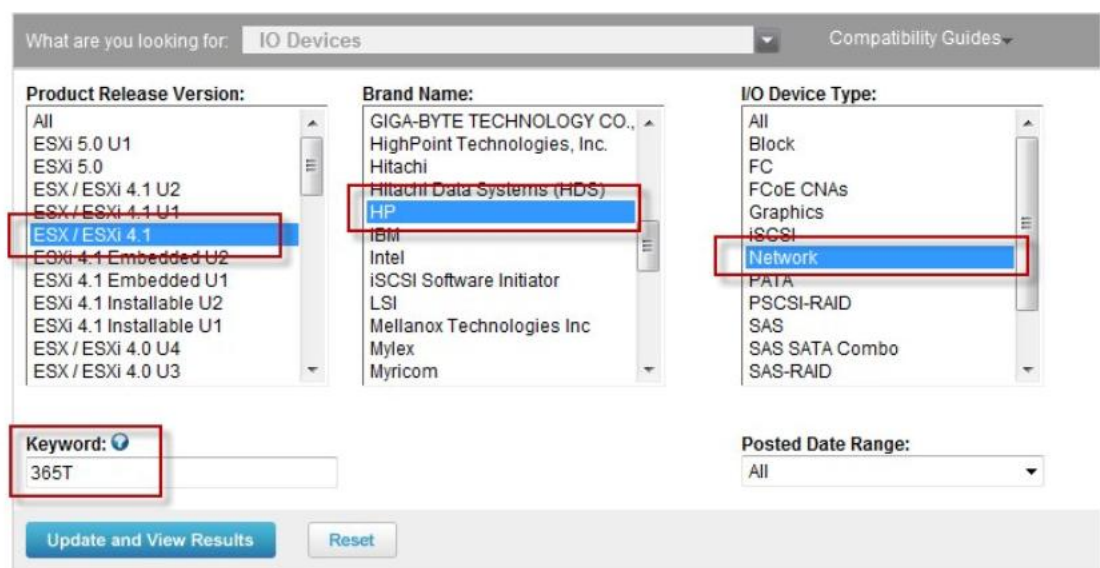


下载需要的驱动，这里以之前碰到过的“HP NC365T PCIe 四通道千兆网卡 (铜介质)”为例一、下载驱动

- 1, 首先要确认该硬件和 vmware 的兼容性。到 vmware 官网, “支持和下载”, 选择 “兼容性指南”, 再选择 “Product Interoperability Matrixes”。



- 2, 因为我们要找的是网卡驱动, 所以选择 I/O Compatibility Guide , 并输入所需网卡的一些必要条件, 如图



- 3, 点击 Update and View Results 即可查看搜索结果, 如图, 我们找到了该款 4 口网

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I/O Device and Model Information

The detailed lists show actual vendor devices that are either physically tested or are similar to the devices tested by VMware or VMware partners. VMware provides support only for the devices that are listed in this document. Click on the 'Model' for details.

[Bookmark](#) | [Print](#) | [Export](#)

Search Results: Your search for "IO Devices" returned one results.			
Display:			
Brand Name	Model	Device Type	Supported Releases
HP	HP NC365T PCIe Quad Port Gigabit Server Adapter	Network	ESXi 5.0 U1 ESXi 5.0 ESX / ESXi 4.1 U2 ESX / ESXi 4.1 U1 ESX / ESXi 4.1 ESX / ESXi 4.0 U4 ESX / ESXi 4.0 U3 ESX / ESXi 4.0 U2 ESX / ESXi 4.0 U1 ESX / ESXi 4.0

4，点击名字可以进入对应详细版本的下载页面（至此我们确认了该网卡的兼容性）

Model Detail

Model: HP NC365T PCIe Quad Port Gigabit Server Adapter

VID: 8086

Device Type: Network

DID: 150e

Partner Name: HP













SVID: 103c

Number of Ports: 4

Notes:

Model Release Details

Expand

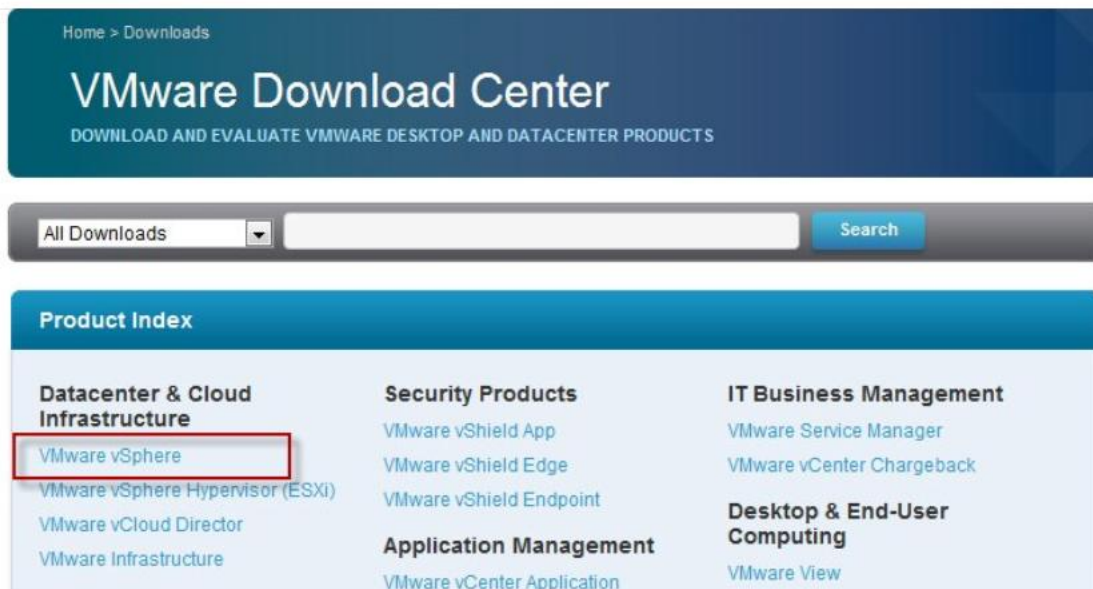
Release	Device Driver(s)	Firmware Version	Type
 ESXi 5.0 U1	igb version 3.2.10	N/A	async
 ESXi 5.0 U1	igb version 3.1.17	N/A	async
 ESXi 5.0 U1	igb version 2.1.11.1-3vmw	N/A	inbox
 ESXi 5.0	igb version 3.2.10	N/A	async
 ESXi 5.0	igb version 3.1.17	N/A	async
 ESXi 5.0	igb version 2.1.11.1-3vmw	N/A	inbox
 ESX / ESXi 4.1 U2	igb version 3.2.10	N/A	async
 ESX / ESXi 4.1 U2	igb version 3.1.17	N/A	async
 ESX / ESXi 4.1 U2	igb version 3.0.18	N/A	async
 ESX / ESXi 4.1 U2	igb version 2.4.10	N/A	async
 ESX / ESXi 4.1 U2	igb version 2.1.9.8	N/A	async
 ESX / ESXi 4.1 U2	igb version 2.1.10.2	N/A	async

5，这里我们下载一个 ESXi4.1 版本的驱动。但是我们发现只给我们一个链接，如图：

ESX / ESXi 4.1	igb version 3.2.10	N/A
Footnotes : Download driver from http://www.vmware.com/download/vsphere/drivers_tools.html Support iSCSI SAN Boot using iBFT		

6，最终我们还是回归到了产品下载页面，选择 VMware vSphere

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7，之后选择相应的 ESXi 版本，并进入 “Drivers&Tools”选项卡，选择 Driver CDs 一项



8，但是我们发现这里大部分驱动都是 Brocade, intel, Qlogic 等厂商的板卡驱动，并没有我们所需的 HP NC365T 四口网卡。

9，问题出在哪呢？经过仔细查看了 NC365T 网卡的参数发现，该网卡实际上使用的 Intel 82580 芯片。因此，我们直接找 Intel 82580 即可。如图：



10， 点击下载即可。用同样的方式下载对应 ESXi4.1 和 ESXi5 的驱动。

下载后发现用于 4.1 的驱动是个 ISO 镜像，而用于 ESXi5 的驱动是个 ZIP 包。这是因为 4.x 和 5 打补丁的方式是不同的。具体安装我们下面会演示。

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二、安装驱动

1、为 ESXi4.x 安装驱动

- (1) 将驱动 ISO 光盘插入 ESXi 光驱。注：ESXi 主机使用 CDROM 方式比较特殊

```
~ # vmkload_mod iso9660
Module iso9660 loaded successfully
~ # /sbin/vsish -e set /vmkModules/iso9660/mount mpx.vmhba32:C0:T0:L0
~ # ls /vmfs/volumes/CDROM #此时该到该目录即可看到光盘内容
```

- (2) 主机进入维护模式并使用命令升级

```
/vmfs/volumes/mpx.vmhba32:C0:T0:L0/OFFLINE_ # esxupdate --bundle=INT_INTE.ZIP up
date
Unpacking cross-vmware-esx-dr... [100%]
Removing packages :vmware-esx... [100%]
Installing packages :cross-vm... [100%]
Running [/usr/sbin/vmkmod-install.sh]... 这是驱动所在路径
ok.
The update completed successfully, but the system needs to be rebooted for the
changes to be effective.
```

- (3) 之后重启主机并退出维护模式即可。
- (4) 另外，下载的补丁 ISO 里有官方的 Readme 文件，里面介绍了给 ESX/ESXi 4.x 打补丁的其他方式（如通过 vCli，或者在 ESX 安装过程中添加），请见本文备注<1>

2、为 ESXi5.0 打补丁

- (1) 将下载的驱动包里的 vib 文件解压出来，用 vSphere Clinet 将该文件上传至本地存储
- (2) SSH 或 ALT+F1 进入命令行模式，将该驱动 copy 到 tmp 文件夹，否则提示无权限。

```
~ # ls /vmfs/volumes/datastore1/
net-igb-3.1.17-10EM.500.0.0.406165.x86_64.vib
~ # cp /vmfs/volumes/datastore1/net-igb-3.1.17-10EM.500.0.0.406165.x86_64.vib /tmp
```

- (3) 主机进入维护模式并执行命令打驱动

```
~ # esxcli software vib install -v /tmp/net-igb-3.1.17-10EM.500.0.0.406165.x86_64.vib
Installation Result
Message: The update completed successfully, but the system needs to be rebooted for the changes to be effective.
Reboot Required: true
VIBs Installed: Intel_bootbank_net-igb_3.1.17-10EM.500.0.0.406165
VIBs Removed: VMware_bootbank_net-igb_2.1.11.1-3vnu.500.0.0.469512
VIBs Skipped:
```

- (4) 重启主机并退出维护模式即可。
- (5) 官方 Readme 请见备注<2>

备注<1>

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VMware ESX 4.0 Driver CD

Use the VMware ESX driver CD to install drivers on ESX or ESXi installations.

You can use the driver CD in several ways:

- A) To install drivers for devices as part of a new ESX installation
- B) To update existing drivers or install new drivers for an existing ESX installation with `esxupdate`
- C) To update existing drivers or install new drivers for an existing ESX or ESXi installation with `vihostupdate`

A) To install drivers for devices as part of a new ESX installation:
(for ESX only)

Note: This procedure has changed since the 3.5 version of driver CD. You will need the ESX installation DVD to begin.

1. Place the ESX installation DVD in the DVD drive of the host.
2. Restart the host.
3. Accept the terms of the license agreement.
4. Select a keyboard type.
5. When prompted for Custom Drivers, select Yes to install custom drivers.
6. Click Add to eject the ESX installation DVD.
7. Place the driver CD in the DVD drive of the ESX host.
8. Select driver module to import drivers to the ESX host.
9. Click Next to continue. A dialog box displays the following message:
Load the system drivers.
10. Click Yes. After loading the driver module, continue installing ESX. After the drivers are installed you are prompted to swap the driver CD with the ESX installation DVD.

B) To update or add drivers on existing ESX installations using `esxupdate`:
(for ESX only)

1. Power on the ESX host and log into an account with administrator capability.
2. Place the driver CD in the CD-ROM drive of the ESX host.
3. Mount the driver CD.
4. Navigate to `<cd mount point>/offline-bundle/` and locate the `<offline-bundle>.zip` file.
5. Run the `esxupdate` command to install drivers using the offline bundle.

`esxupdate --bundle=<offline-bundle>.zip update`

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C) To update or add drivers on existing ESX and ESXi installations using
vihostupdate: (for both ESX and ESXi)

1. Power on the ESX or ESXi host.
2. Place the driver CD in the CD-ROM drive of the host where either the vSphere CLI package is installed or vMA is hosted.
3. Mount the driver CD.
4. Navigate to <cd mount point>/offline-bundle/ and locate the
<offline-bundle>.zip file.
5. Run the vihostupdate command to install drivers using the offline bundle.

```
vihostupdate <conn_options> --install --bundle <offline-bundle>.zip
```

(For more details on vihostupdate, see the vSphere Command-Line Interface Installation and Reference Guide.)

备注<2>

VMware ESX 5.0 VIB Installation Instructions

VMware uses a file package called a VIB (VMware Installation Bundle) as the mechanism for installing or upgrading software packages on an ESX server.

The file may be installed directly on an ESX server from the command line, or through the VMware Update Manager (VUM).

COMMAND LINE INSTALLATION

New Installation

For new installs, you should perform the following steps:

1. Copy the VIB to the ESX server. Technically, you can
place the file anywhere that is accessible to the ESX console shell,
but for these instructions, we'll assume the location is in '/tmp'.

Here's an example of using the Linux 'scp' utility to copy the file
from a local system to an ESX server located at 10.10.10.10:

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```
scp VMware_bootbank_net-driver.1.1.0-1vmw.0.0.372183.vib
root@10.10.10.10:/tmp
```

2. Issue the following command (full path to the VIB must be specified):
`esxcli software vib install -v {VIBFILE}`

In the example above, this would be:

```
esxcli software vib install -v
/tmp/VMware_bootbank_net-driver.1.1.0-1vmw.0.0.372183.vib
```

Note: Depending on the certificate used to sign the VIB, you may need to change the host acceptance level. To do this, use the following command:
`esxcli software acceptance set --level=<level>`
Also, depending on the type of VIB being installed, you may have to put ESX into maintenance mode. This can be done through the VI Client, or by adding the '--maintenance-mode' option to the above esxcli command.

Upgrade Installation

The upgrade process is similar to a new install, except the command that should be issued is the following:

```
esxcli software vib upgrade -v {VIBFILE}
```

VUM INSTALLATION

The VMware Update Manager (VUM) is a plugin for the Virtual Center Server (vCenter Server). You can use the VUM UI to install a VIB by importing the associated offline bundle package (a ZIP file that contains the VIB and metadata). You can then create an add-on baseline and remediate the host(s) with this baseline. Please see the vCenter Server documentation for more details on VUM.

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2012 年 3 月 27 日