

To evaluate Cisco's Nexus 1000v in conjunction with NetQoS SuperAgent virtual collector, I had to install an ESX Server into my lab. All necessary steps to do the first installation of ESX Server are documented in this TechTip and a few others to follow on my web site

1. Get VMware Software

Download VMware vSphere Enterprise Plus and optionally VMware vCenter Server Standard

https://www.vmware.com/tryvmware/index.php?p=vspherecisco

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| ivaluate fully-functional VMwa lata center, by virtualizing you | are products to s r computing, sto | ee how you can o prage and network | optimize and man king systems. Incr | age your IT infrast rease server and o | ructure, from the desktop to the other resource utilization, impro | ve | hala |

As hardware I did use an HP Proliant DL140 G3 with 8 GB RAM, which I found on eBay a while back. A good source would be LA Micro Group, Woodland Hills, CA

ESX will only install on a 64bit processor

After the registration process is completed, you will get a 60 days license

YOUR TRIAL INCLUDES

VMware vSphere Enterprise Plus

with VMware enterprise-class virtual machines.

• VMware vCenter Server Standard

| VMware vSphere | Expiration Date: Oct 16, 2010 | XXXXX-XXXXX-XXXXX-XXXXX-XXXXX |
|-------------------------|-------------------------------|-------------------------------|
| VMware vCenter Server 4 | Expiration Date: Oct 16, 2010 | XXXXX-XXXXX-XXXXX-XXXXX-XXXXX |

Next, you will have to write the ISO Images on a DVD, which will ease the installation. You can also choose to install from NFS, HTTP or FTP



DISCLAIMER

This Technical Tip or TechNote is provided as information only. I cannot make any guarantee, either explicit or implied, as to its accuracy to specific system installations / configurations. Readers should consu each Vendor for further information or support.

Although I believe the information provided in this document to be accurate at the time of writing, I reserve the right to modify, update, retract on otherwise change the information contained within for any rec and without notice. This technote has been created after studying the material and / or practical evaluation by myself. All liability for use of the information presented here remains with the user Start the installation by inserting the Installation DVD in your DVD Drive and boot from DVD. Following installation screen will appear.



Press Return or have the timer count down, the graphical mode will start



After the Welcome Screen you will be presented with the End User License Agreement you have to accept in order to continue the installation.



Custom Drivers

There is no need to install custom drivers, as the Proliant Server is pretty standard. If you are using any exotic hardware, than you have to install custom drivers.

| · · · · · · · · · · · · · · · · · · · | | |
|---------------------------------------|--|--|
| 5 | Load Drivers | |
| ck "Add" to eje | The install wizard will load any drivers required for ESX. Once this step is completed, additional custom drivers | |
| river | cannot be loaded. | |
| | Load the system drivers? | |
| | No No | |

License Number

If you have received a license serial number, you can add them in here. If you choose to enter a serial number later, the ESX Server will run in Evaluation Mode

| ESX 4.0 | | | | | | <mark>,</mark> |
|---|----------------------------|------------|----------|-----------|---|----------------|
| License Enter licen | se serial nu | mber | | | | |
| Enter a serial nui Serial Number: | mber now: | | | | | |
| Enter a serial num Choose this optic | mber later on to evalua | ate this p | roduct o | r to conf | igure the serial number later using vCenter Server. | |

Network Configuration

Choose the adapter for Management Access. It is not the one being used for virtual machine communication. Skip VLAN ID Setting. This is optional, if your environment requires a VLAN ID



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| ESX 4.0 📃 | | |
|----------------------|---|--|
| Network C | Configuration lapter for ESX | |
| Select an adapter fo | or ESX to use for system tasks. | |
| Network Adapter: | NC373i Integrated Mul (MAC: 00:1f:29:62:54:42) 🔗 - Connected 😫 | |
| | This adapter requires a VLAN ID (Leave unchecked if you are not sure) | |
| VLAN Settings: | VLAN ID | |

Set static network address configuration and **Test these settings** – Do not continue until the Test completes successfully

| ESX 4.0 | figuration k rk configuration information | |
|---------------------------------------|---|--|
| Network Adapter: vmn | c0 | |
| Adapter Settings | | |
| Set automatically | using DHCP | |
| Use the following | network settings: | |
| IP Address: | 192.168.10.162 | |
| Subnet Mask: | 255.255.255.0 | |
| Gateway: | 192.168.10.254 | |
| Primary DNS: | 192.168.10.60 | |
| Secondary DNS: | 192.168.10.254 | |
| Host name: | esx-1.bemsel.home | |
| | Enter a fully qualified host name (e.g. host.example.com) | |
| Test these settings | | |

Install Media

Choose CD-ROM as the source for this ESX installation - other options only make sense if you host the source on a remote location.





Setup Type

If you have only a single hard drive, standard setup would be sufficient. Advanced Setup will give you the option to choose and customize individual ESX partitions.

| ESX 4.0 | | |
|---------------|---|--|
| | tup Type | |
| _ oper | | |
| Standard | rd setup | |
| Setup ES | SX on a single hard drive or LUN. | |
| O Advance | ed setup | |
| View and | nd customize the individual ESX partitions. | |
| 🗹 Confi | figure boot loader automatically (leave checked if unsu | |

ESX Storage Device

There you can select the location to install ESX

| ESX 4 | l.0 |
|-------|----------------------------------|
| | ESX Storage Device |
| | Select a location to install ESX |

Time Zone

Certified

Select the Time Zone and manually adjust calendar and time. If you have access to an NTP Server, I highly suggest to chose NTP Server. Computer clocks are not as accurate as we believe

| ESX 4.0 | |
|---|-------------|
| Date and Time Specify the date and time for ESX | |
| How should the date and time for ESX be configure | rd? |
| Automatically | |
| NTP Server: | Synchronize |

Set Administrator Password and let installation script do it's job

XYLAN CERTIFIED SWITCH EXPERT

| Set Administi | rator Password listrator (root) password for ESX | |
|----------------------|---|--|
| The password must be | at least 6 characters long. | |
| User Name: | root | |
| Password: | ***** | |
| Confirm Password: | | |
| | | |

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Finally, you can connect to your new ESX Server with your web browser and will get following Welcome Screen

VMware ESX 4

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 4 Documentation

For Administrators

vSphere Web Access

vSphere Web Access streamlines remote desktop deployment by allowing you to organize and share virtual machines using ordinary web browser URLs.

Log in to Web Access

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

The vSphere Web Services SDK package contains interface definitions, detailed documentation and sample code to help you write your own management programs.

- Download the Web Services SDK
- Browse objects managed by this host

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Once, you see that screen your ESX Server is ready to receive Virtual Machines and Virtual Appliances

