

# VMware ESXi 4.0:: Overview

Version: 0.1

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# About me



- IT System Engineer (Since 2000/10)
- IT Blog - <http://www.performance.kr>
- Like
  - Automated process and seam-less migration
  - Rule of K.I.S.S. (Keep IT Simple, Stupid !!!)
- Dislike
  - Manual and laborious works

# Why VMware ESXi 4.0?

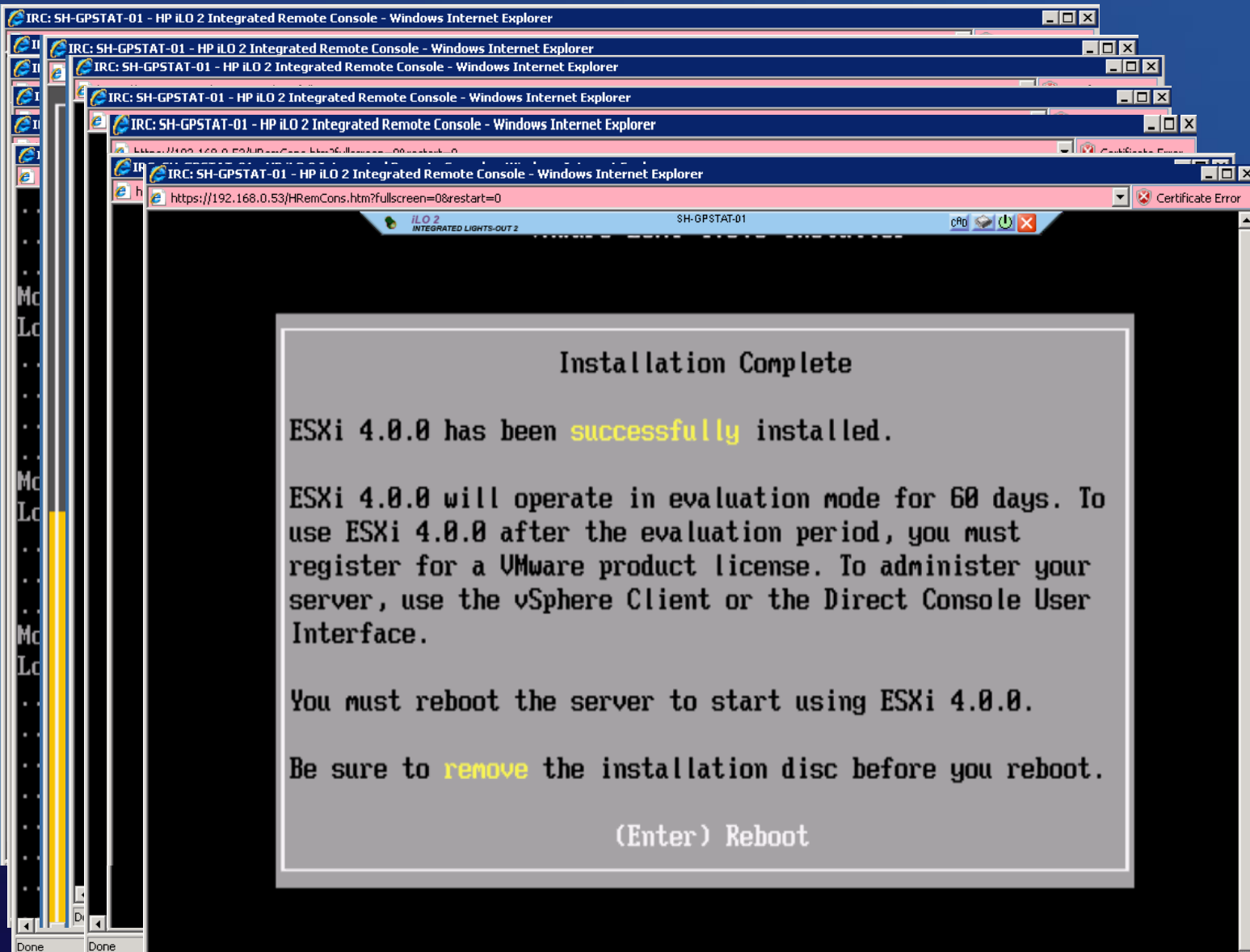
- VMware is market leader.
  - VMware remains the market leader in server virtualization with **approximately 50% share among enterprise users**; Microsoft follows with 26% share. (2009/08/26)  
[ITIC 2009-2010 Global Virtualization Deployment Trends Survey](#)
- Easy migration from VMware (Free) Server
- Official support for non-Windows Platform

# Hardware Requirement

- ESXi 4.0 Now supports SATA Storage !!!!
- Processor Requirement:
  - x64 with Intel VT or AMD-V enabled.
- But ☹
  - ESXi 4.0 does not support Realtek NIC.
  - “Intel Pro 1000 GT Desktop adapter” works well.  
(USD 29.99 / KRW 40,000)

# Software Requirement

- ISO: VMware-VMvisor-Installer-4.0.0-171294.x86\_64.iso (340MB)
- ESXi 4.0 installation method
  - CDROM
  - USB
  - PXE Server
- ESXi 4.0 (Free) License key
  - 1J23Q-0E394-48139-0C2R6-A17QM



# VMware vSphere Client

The screenshot displays the VMware vSphere Client interface. The top menu bar includes File, Edit, View, Inventory, Administration, Plug-ins, and Help. The breadcrumb navigation shows Home > Inventory > Inventory. The left sidebar shows a tree view of the vSphere inventory. The main pane shows the 'Virtual Machines' tab for a specific host (VMware ESXi, 4.0.0, 171294). A search bar at the top of the table is set to 'Name, State or Guest OS contains:'. The table lists five virtual machines, all in a 'Powered On' state. The bottom pane shows the 'Recent Tasks' section with a table of task history.

Name	State	Provisioned Space	Used Space	Host CPU - MHz	Host Mem - MB	Guest Mem - %
VM-WEB-01	Powered On	61.00 GB	61.00 GB	12	757	16
QA-WEB-01	Powered On	62.00 GB	62.00 GB	209	2066	51
QA-WEB-02	Powered On	61.00 GB	61.00 GB	12	754	23
QA-WEB-03	Powered On	62.00 GB	62.00 GB	20	1061	14
QA-WEB-04	Powered On	22.00 GB	22.00 GB	13	1706	16

Name	Target	Status	Details	Initiated by	Requested Start Time	Start Time	Completed Time
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# VMware vSphere CLI

```
C:\Program Files\VMware\VMware vSphere CLI\bin>vicfg-vmknic.pl -server 192.168.0.61 --list
Enter username: root
Enter password:
Interface  Port  Group/Port  IP Family  IP Address
Netmask    MAC Address  MTU        Type
vmk0       Management Network  IPv4       192.168.0.61
255.255.252.0  00:22:15:50:44:76 1500      DHCP

C:\Program Files\VMware\VMware vSphere CLI\bin>
```



# VMware vSphere PowerCLI

```
[vSphere PowerCLI] Connected to 192.168.0.61 as root
[vSphere PowerCLI] C:\> Connect-VIServer -server 192.168.0.61
경고: There were one or more problems with the server certificate:

* The X509 chain could not be built up to the root certificate.

* The certificate's CN name does not match the passed value.

Name                                Port                                User
----                                -
192.168.0.61                        443                                root

[vSphere PowerCLI] C:\> Get-VM

Name                                PowerState Num CPUs Memory (MB)
----                                -
gpp-test-15                        PoweredOff 1          2048
WebDev-01                           PoweredOn 1          2048

[vSphere PowerCLI] C:\> _
```

# Demo

- VMware vSphere Client
- VMware vSphere CLI
- VMware vSphere PowerCLI

# For Your Information

- ITIC 2009-2010 Global Virtualization Deployment Trends Survey  
<http://itic-corp.com/blog/2009/08/itic-2009-2010-global-virtualization-deployment-trends-survey-results/>
- Free VMware ESXi: Bare Metal Hypervisor with Live Migration  
<http://www.vmware.com/products/esxi/>
- Home of the Unofficial VMware ESX Server Whitebox HCL  
<http://www.vm-help.com>
- VMware vSphere Client on Microsoft Windows 7!  
<http://www.virtuallifestyle.nl/2009/05/vmware-vsphere-client-on-microsoft-windows-7/>

# Questions ?





# System Administration is not a Job. It's Life Style.

from "Time Management for System Administrators"