



SRI LANKA INSTITUTE OF INFORMATION TECHNOLOGY

Enterprise Standards and Best Practices for IT Infrastructure

4th Year 2nd Semester 2014

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SLIIT ID: IT13032616

Practical Session: WD Friday

Practical Number: V-Motion Assignment(lab-5)

Date of Submission: 10.09.2016

Title : V-Motion Assignment

Description:

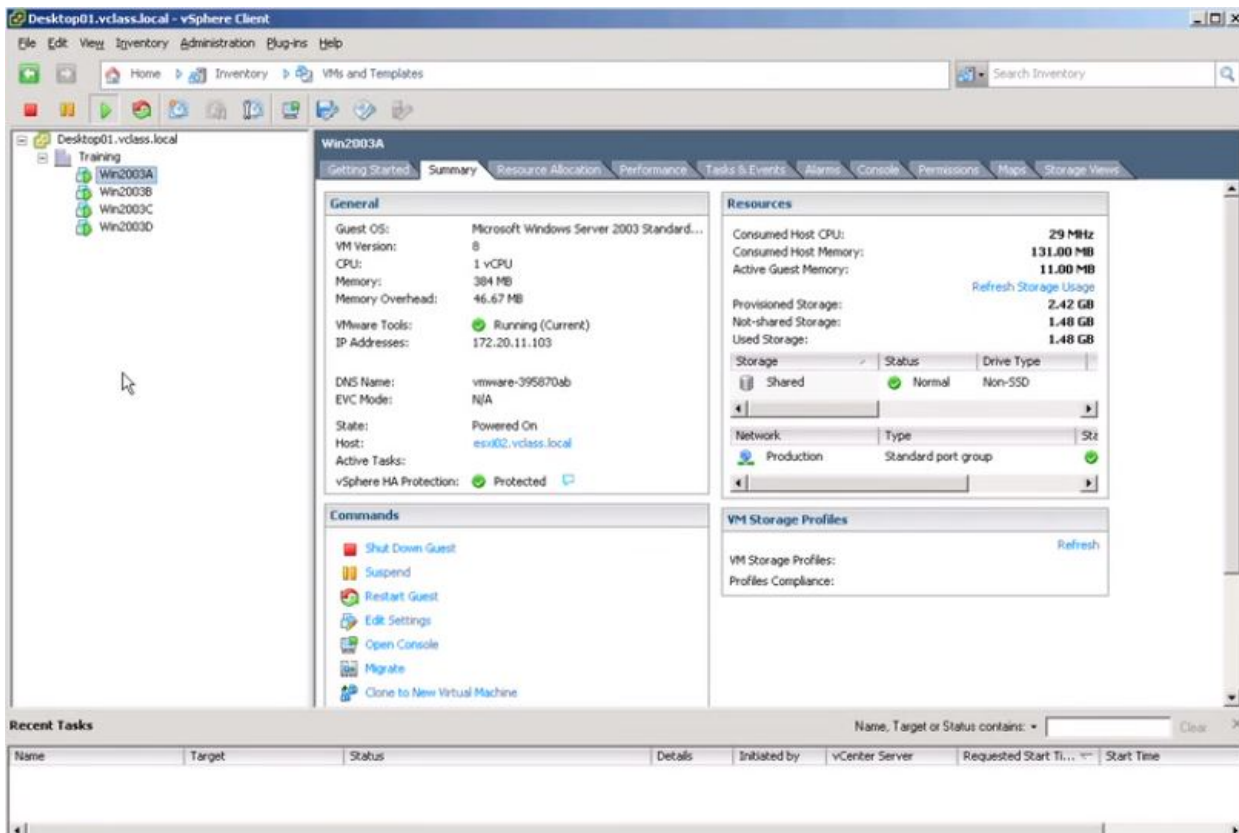
V-Motion is the tool with which active virtual systems can be migrated from one **ESX-host to another** without any interruption to the virtual machines themselves or to their provided services. With **vSphere 5.x** previous limits on simultaneous migrations of virtual machines on **an ESXi-host- and datastore-basis** have been lifted.

1) Requirements:

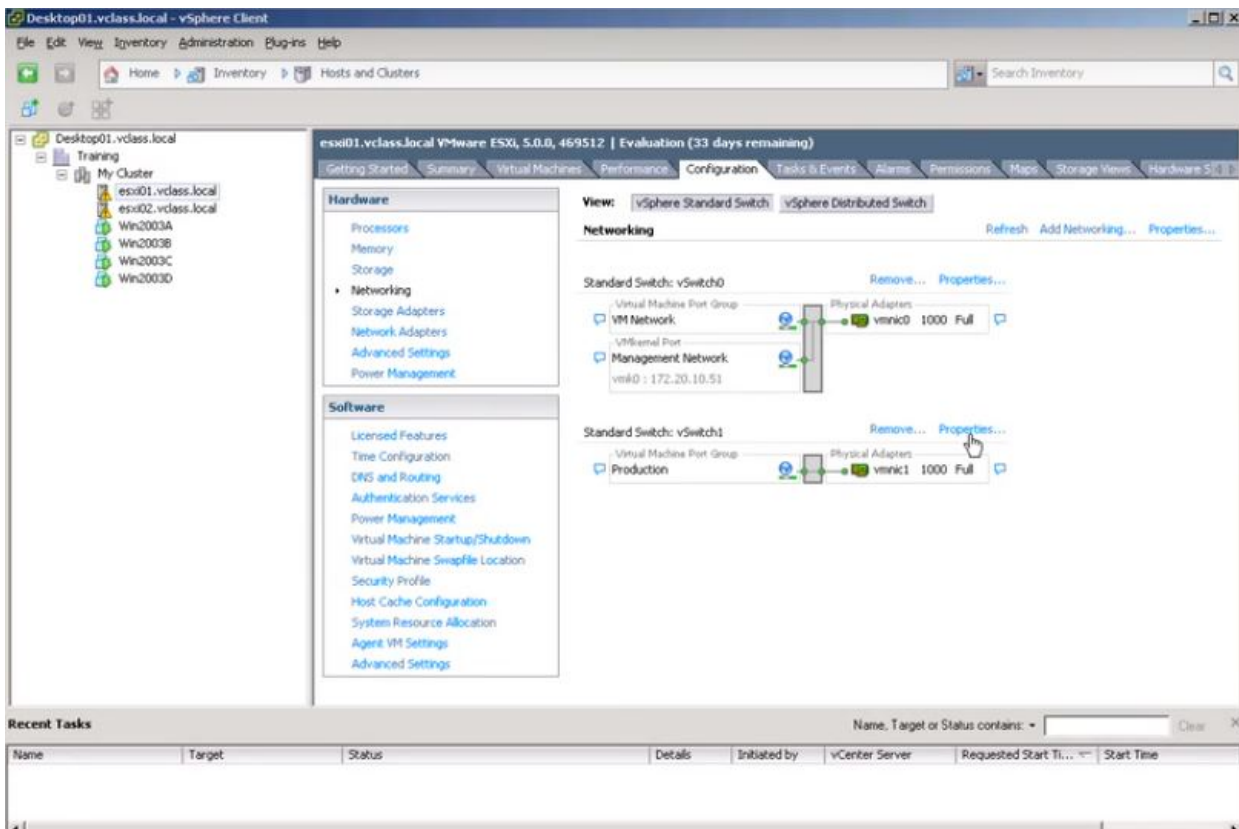
i) Having a Virtual Center.

ii) Have physical servers with ESXi installed.

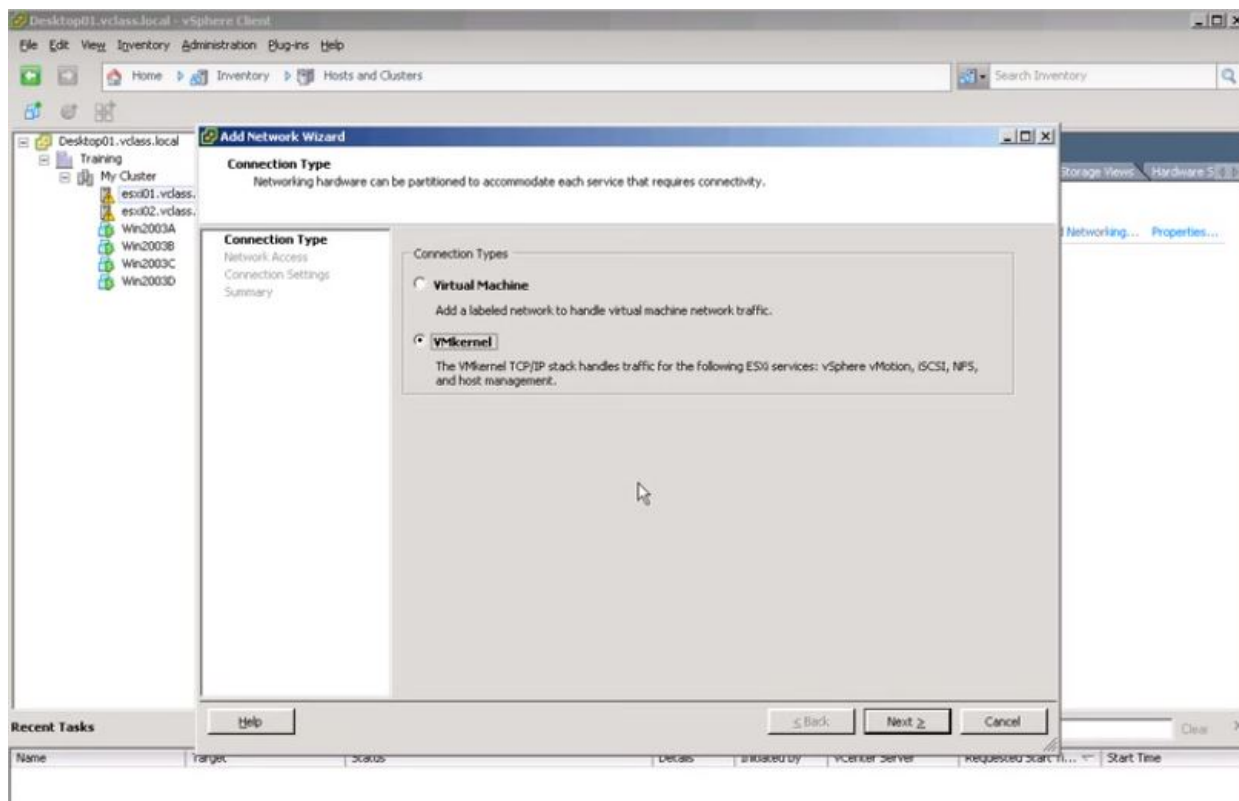
iii) Having a Gigabit network cable to connect from one server to another directly.



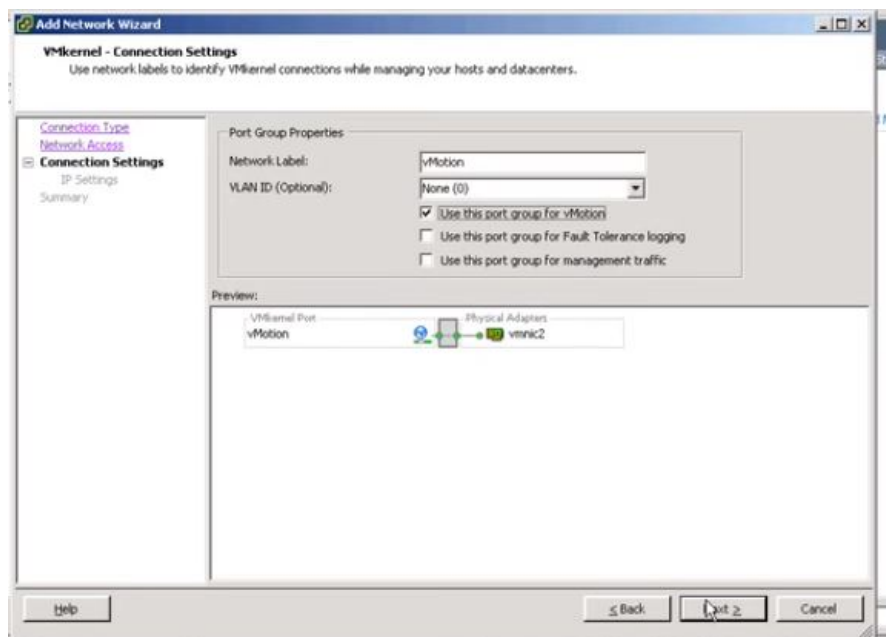
2) First click on **configuration** tab and then go to the **networking**. Then click on **Add networking** to create the **VSwitch**.



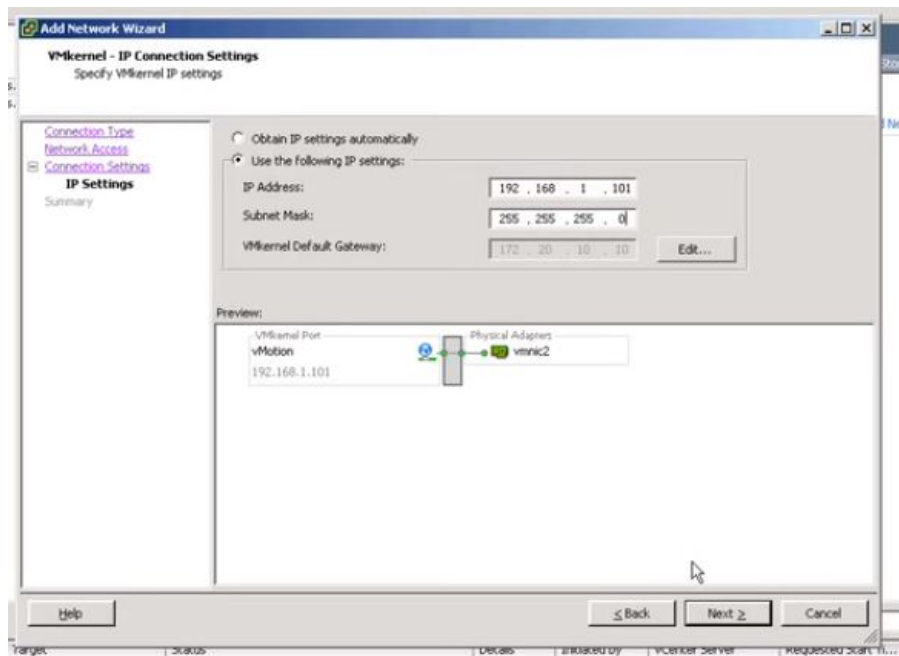
3) Select **VMKernel** and click on **next**.



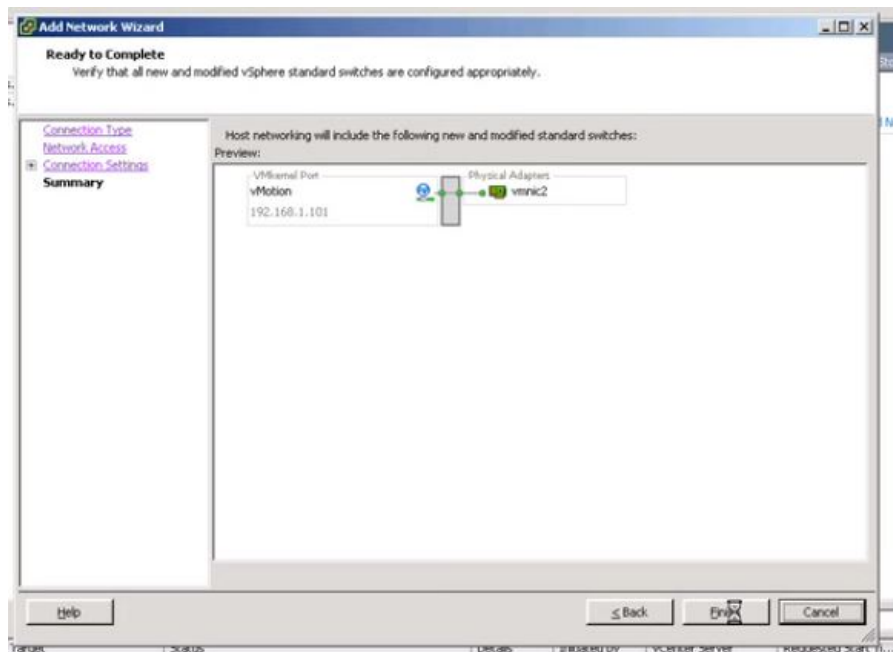
4) Then making a network card or cards that have connected from one server to another.(in my case **vmnic2**) Then click on *next*. Set **use this port group for vMotion**.And put the **Vmotion** to the label network.



5)Then set **Use the following IP setting** IP Address:192.168.1.101 Subnet mask:255.255.255.0 Click on *next*.



6)Click on *Finish*.



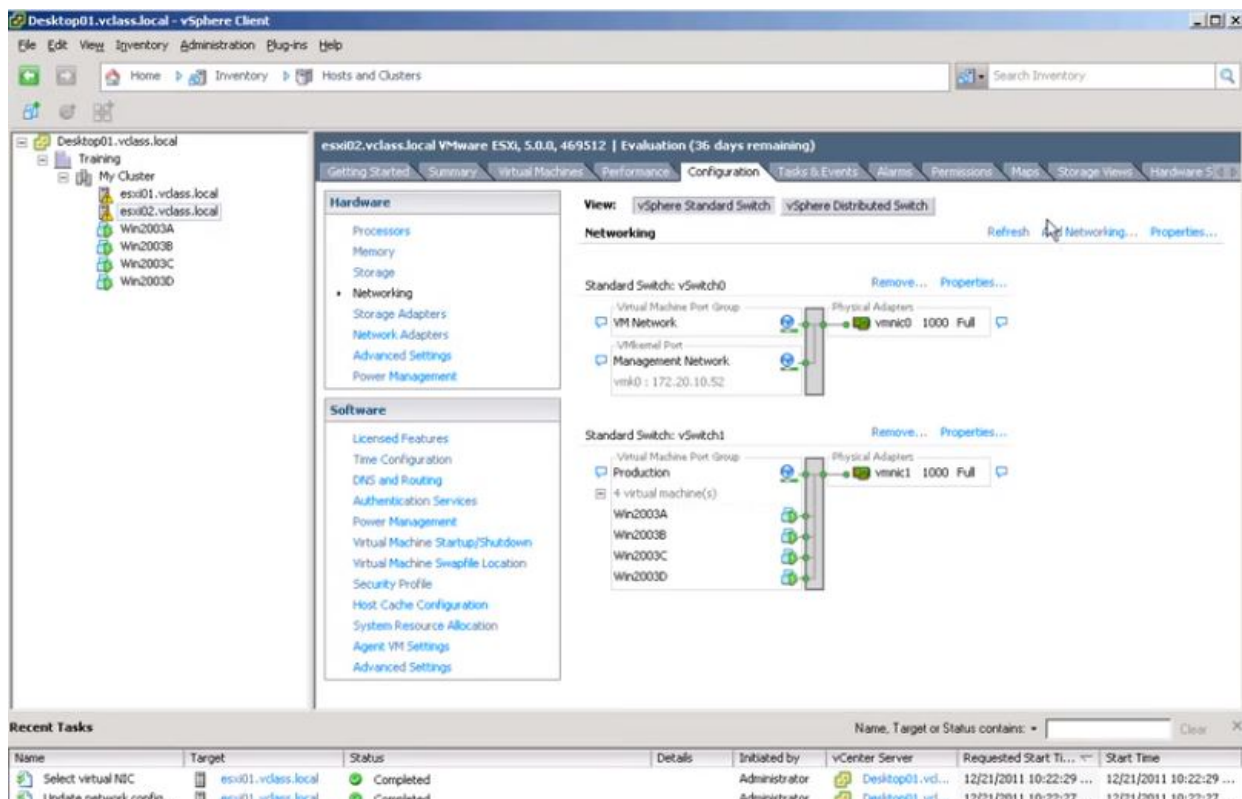
7)Then can see they have created a new virtual switch with Vmotion.

After connect to *another server involved*.

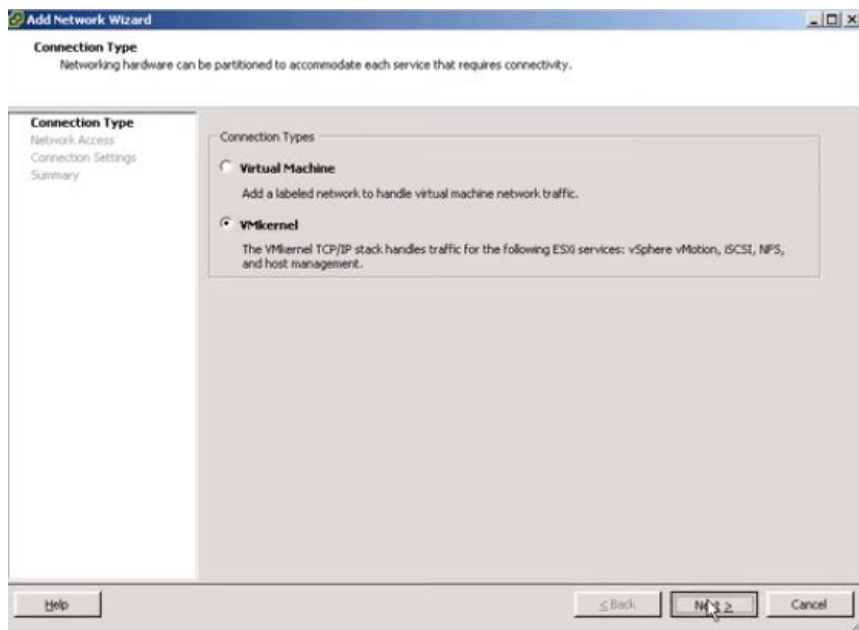
Then select the tab **Configuration-> Network Adapters** and see that have visibility of *new connections*.

After can see the tab **Configuration -> networking**

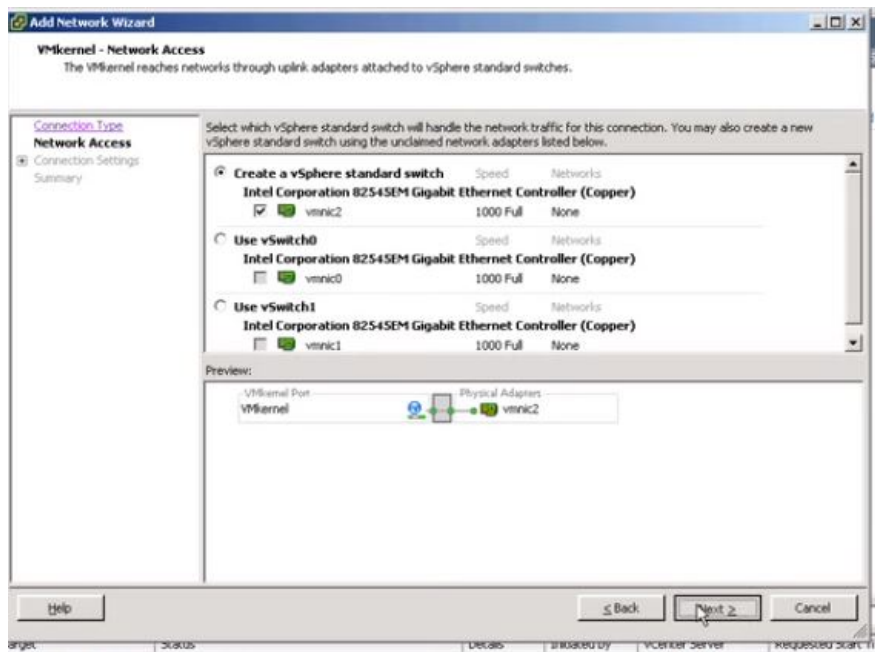
Then click on Add Networking to create the **vSwitch**.



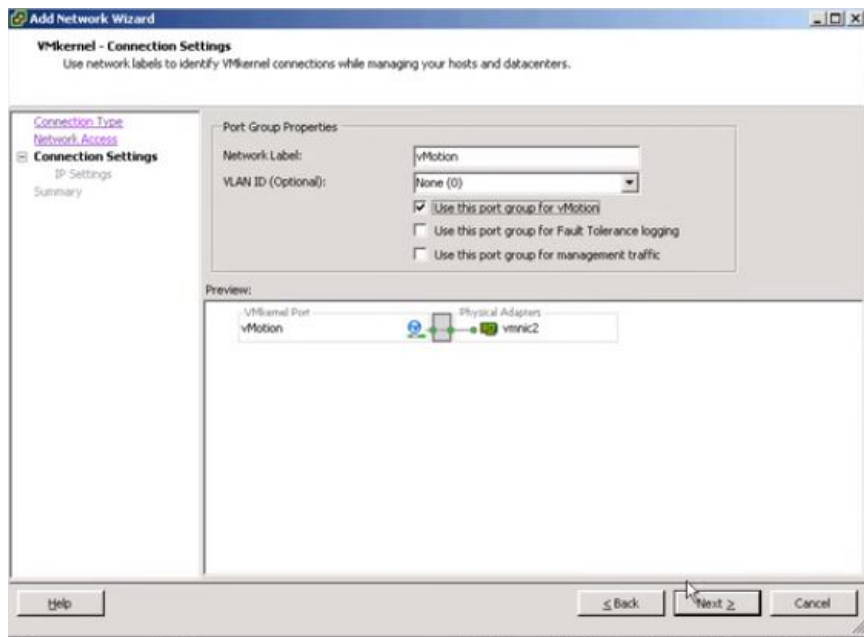
8) Select **VMkernel** and click on *next*.



9) Making a network card and or cards that have connected from one server to another (in my case **vmnic2**). And click on *next*.



10) Set Use this port group for VMotion. And put the Label Network as Vmotion.

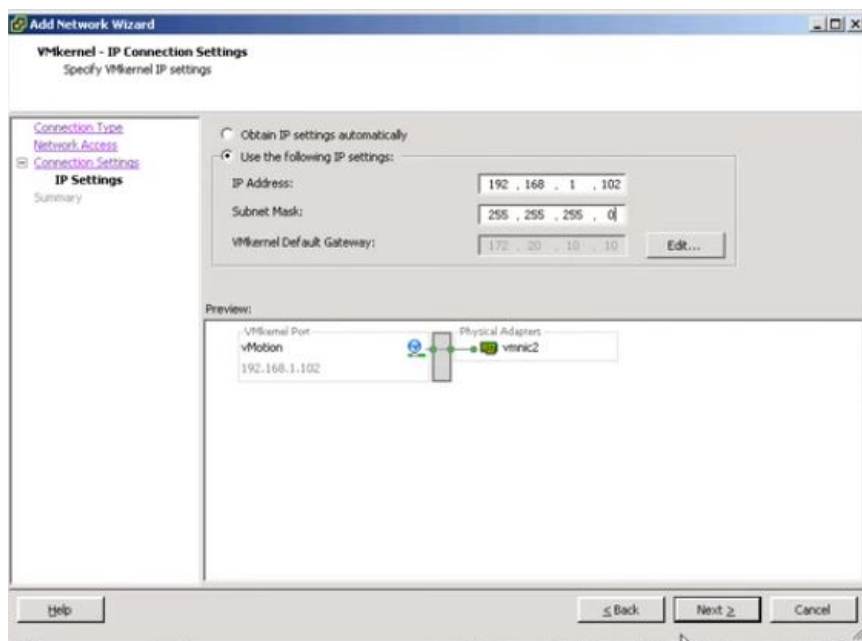


11) Set Use the following IP setting.

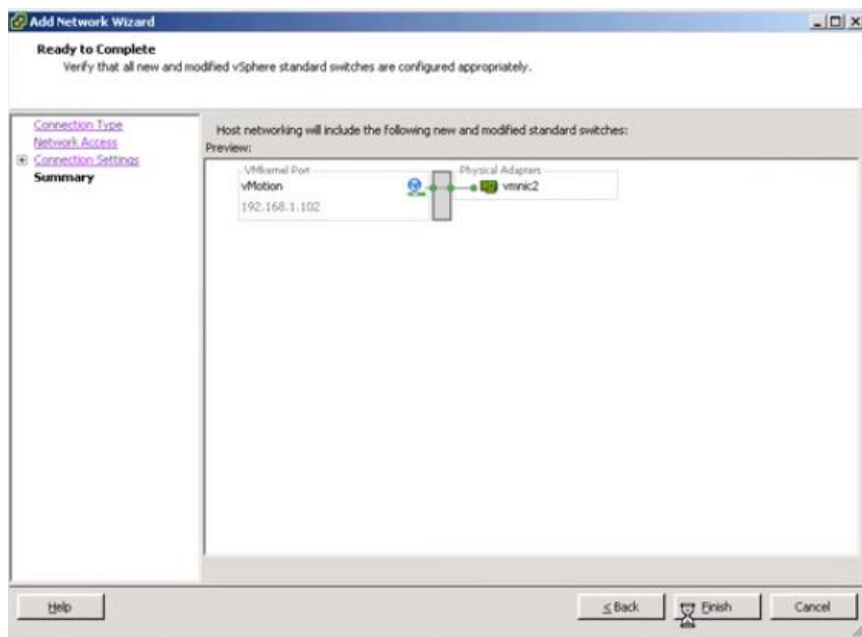
IP Address: 192.168.1.102

Subnet Mask: 255.255.255.0

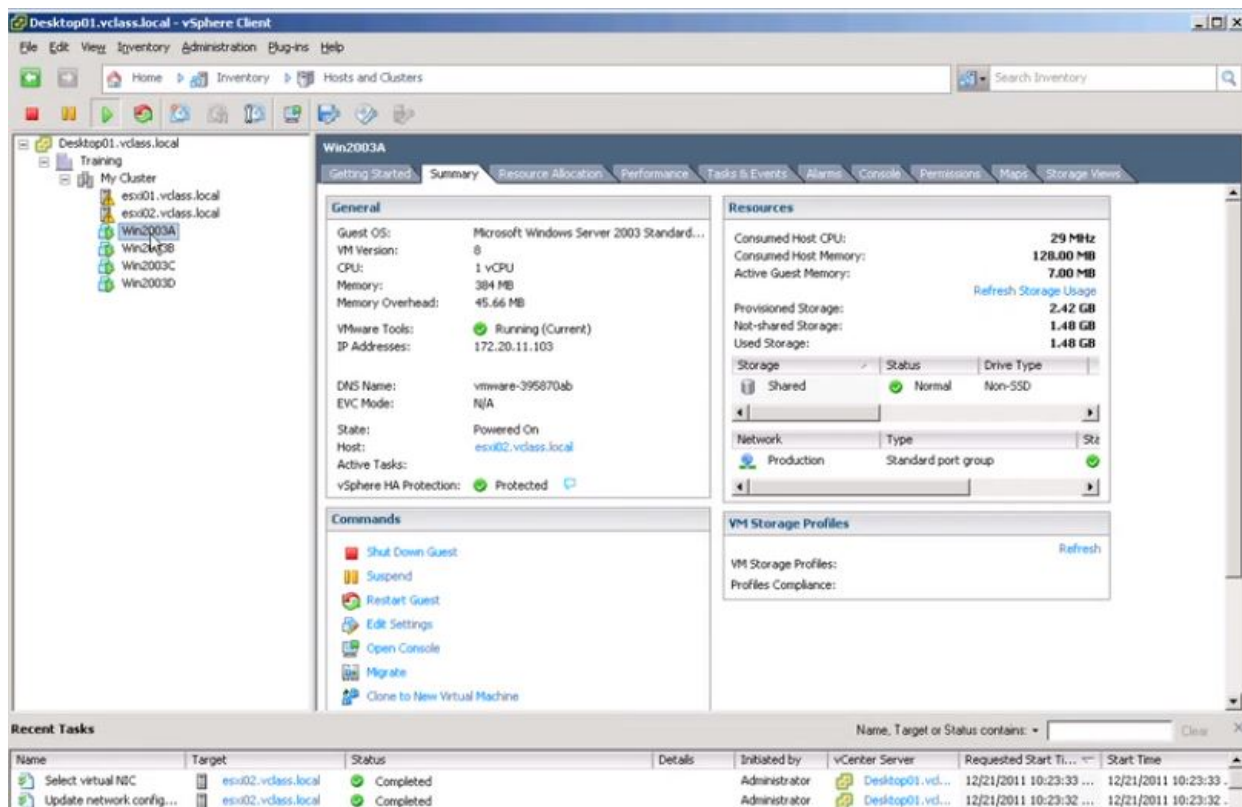
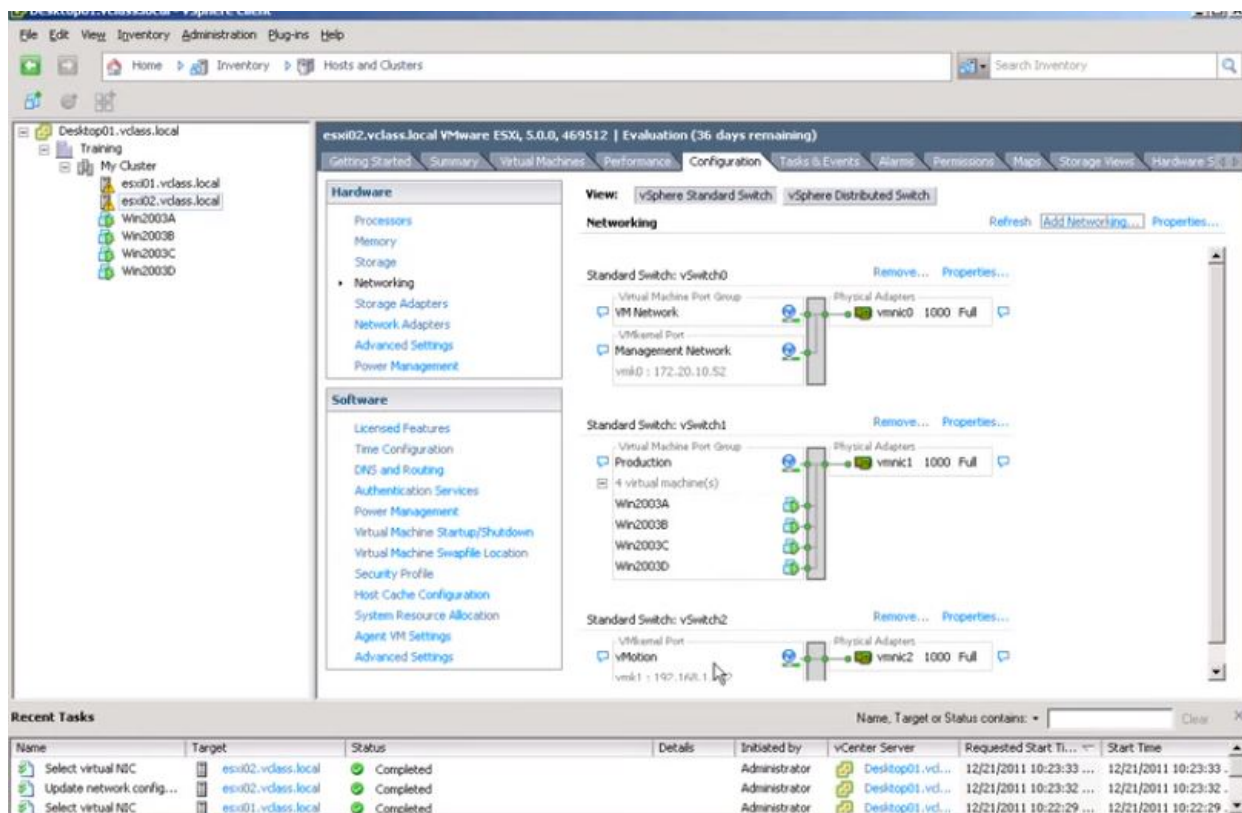
Click on *next*.



12)Click on *finish*.

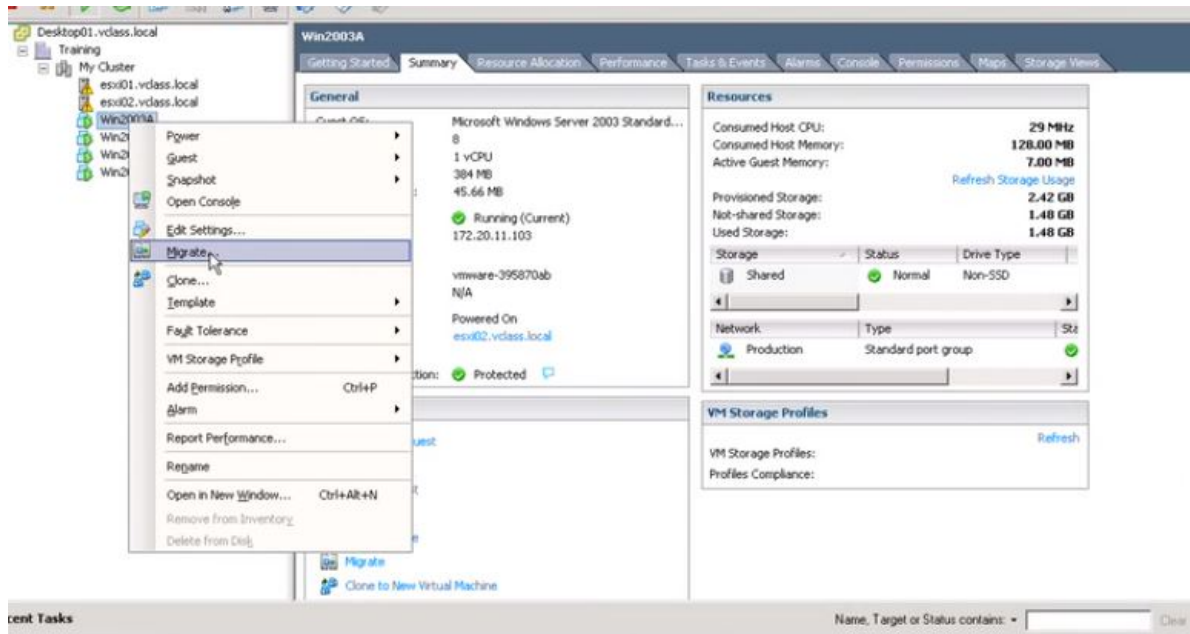
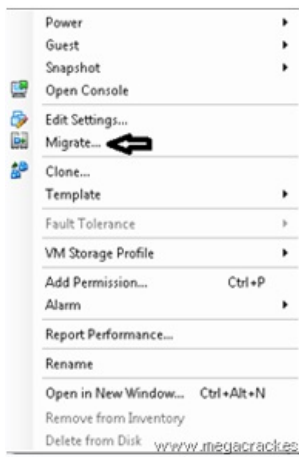


13)Then can see the task is completed.

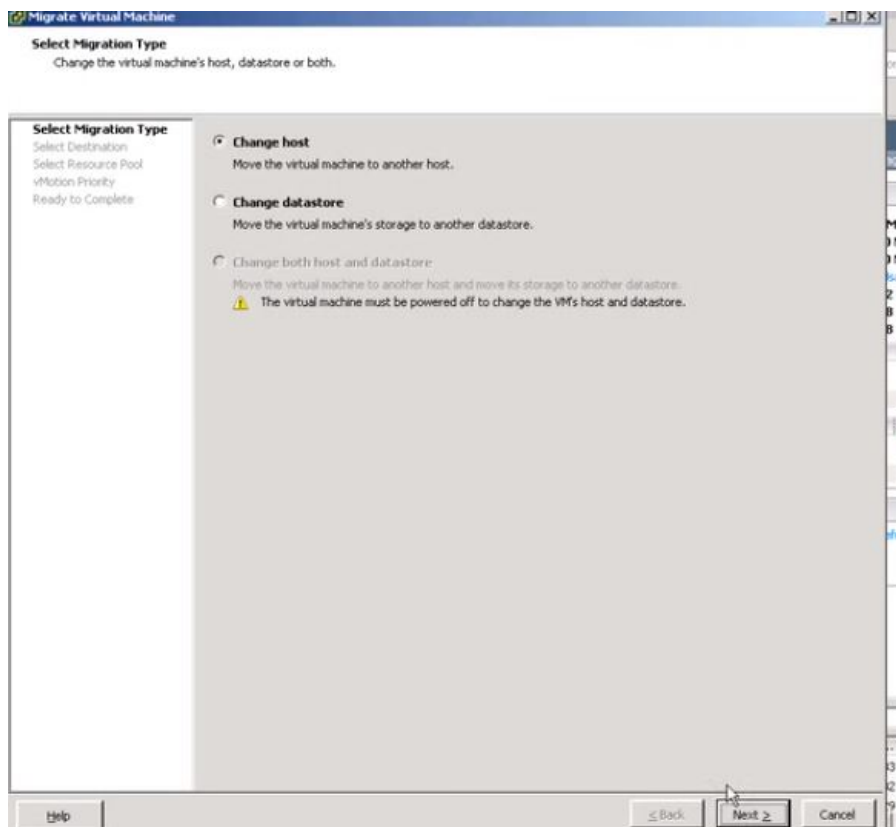


14) And then ensure that the entire system is working properly, migrate a VM from one ESXi to the other using Vmotion functionality you just configured.

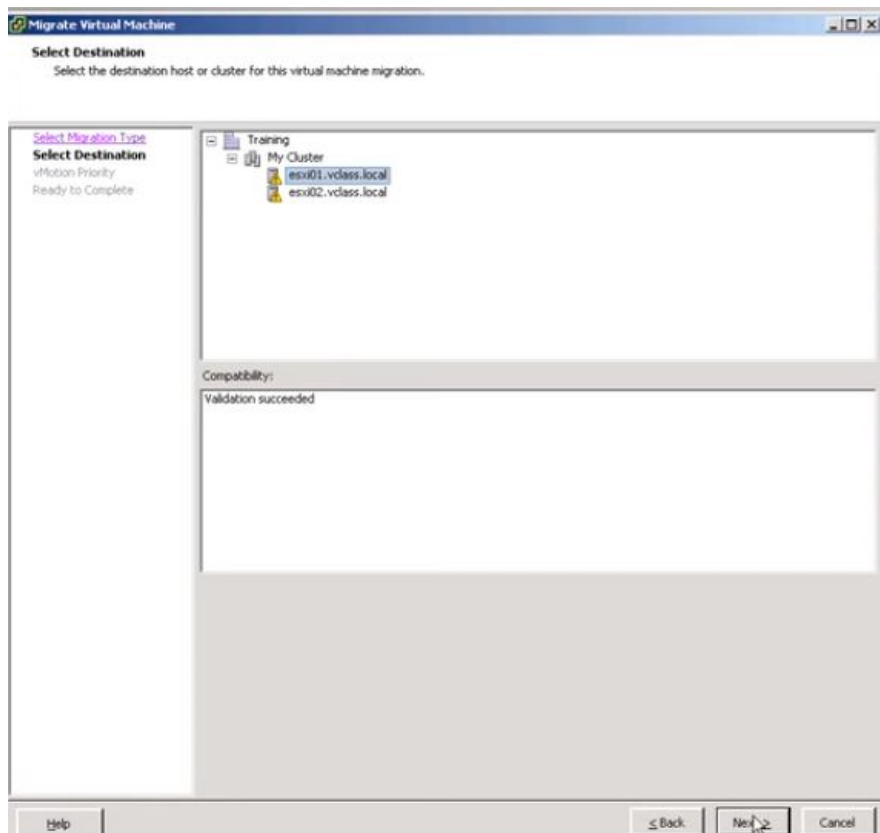
Press the right mouse button on a virtual machine.



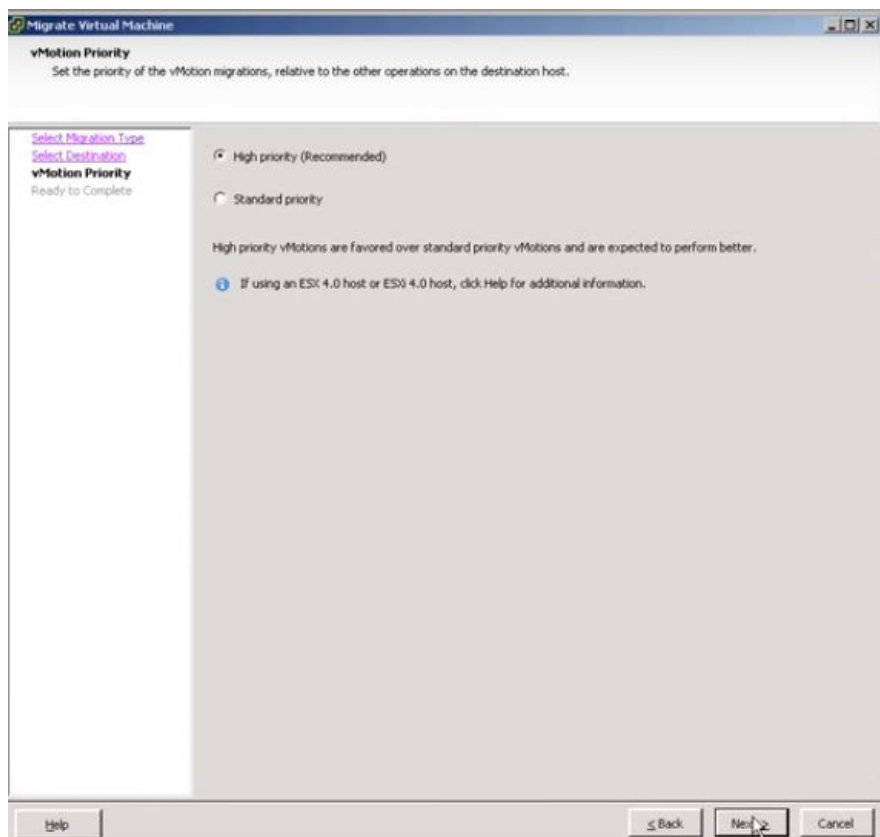
15) Then select the **change host** and click on **next**.



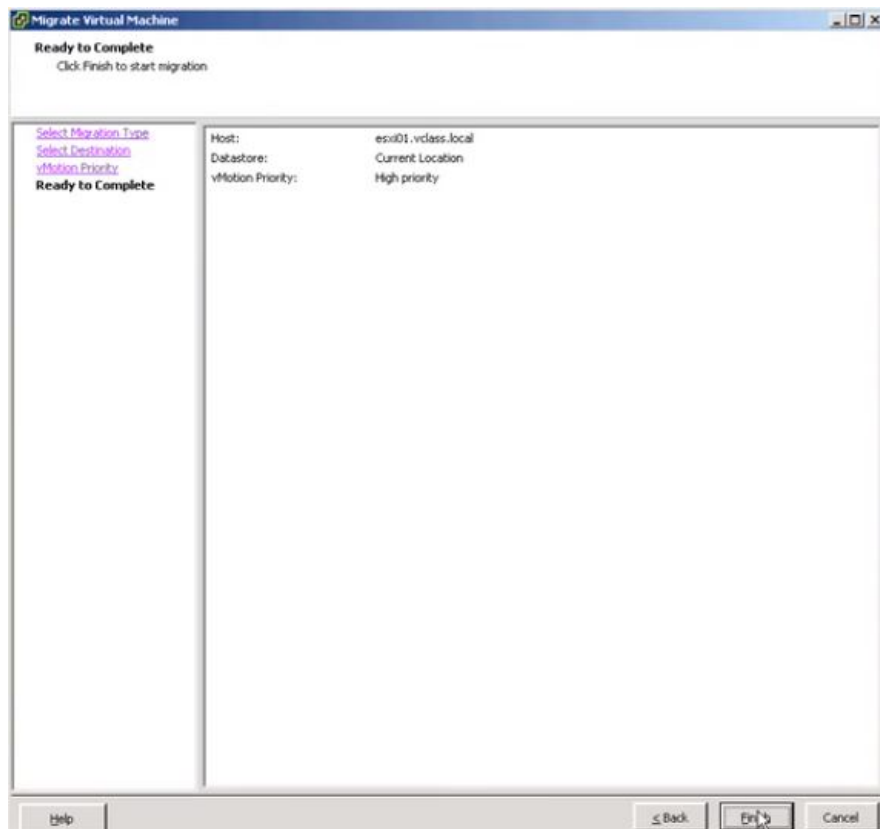
16) Select the target server where I will move the virtual machine. Click on **Next**.



17) Then select the **priority of the vMotion migration**.



18) Click on *finish*.



Desktop01.vclass.local - vSphere Client

File Edit View Inventory Administration Plug-ins Help

Home Inventory Hosts and Clusters Search Inventory

Desktop01.vclass.local

- Training
 - My Cluster
 - esxi01.vclass.local
 - esxi02.vclass.local
 - Win2003A
 - Win2003B
 - Win2003C
 - Win2003D

Win2003A

Getting Started Summary Resource Allocation Performance Tasks & Events Alarms Console Permissions Maps Storage Views

General

Guest OS: Win2003A
 VM Version: 8
 CPU: 1 vCPU
 Memory: 384 MB
 Memory Overhead: 36.18 MB
 VMware Tools: Running (Current)
 IP Addresses: 172.20.11.103

DNS Name:
 EVC Mode: N/A
 State: Powered On
 Host: esxi01.vclass.local
 Active Tasks:
 vSphere HA Protection: Protected

Resources

Consumed Host CPU: 29 MHz
 Consumed Host Memory: 128.00 MB
 Active Guest Memory: 7.00 MB
 Refresh Storage Usage

Provisioned Storage: 2.42 GB
 Not-shared Storage: 1.48 GB
 Used Storage: 1.48 GB

Storage	Status	Drive Type
Shared	Normal	Non-SSD

Network: Production Type: Standard port group

VM Storage Profiles

VM Storage Profiles:
 Profiles Compliance:

Commands

Open Console

Annotations

Notes:

Recent Tasks

Name	Target	Status	Details	Initiated by	vCenter Server	Requested Start Time	Start Time
Migrate virtual machine	Win2003A	Completed		Administrator	Desktop01.vclass.local	12/21/2011 10:25:31 ...	12/21/2011 10:25:31 ...
Select virtual NIC	esxi02.vclass.local	Completed		Administrator	Desktop01.vclass.local	12/21/2011 10:23:33 ...	12/21/2011 10:23:33 ...
Update network config...	esxi02.vclass.local	Completed		Administrator	Desktop01.vclass.local	12/21/2011 10:23:32 ...	12/21/2011 10:23:32 ...

Win2003A

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 VM Version: 8
 CPU: 1 vCPU
 Memory: 384 MB
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 VMware Tools: Running (Current)
 IP Addresses: 172.20.11.103

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VM Storage Profiles

VM Storage Profiles:
 Profiles Compliance:

Commands

Shut Down Guest
 Suspend
 Restart Guest
 Edit Settings
 Open Console
 Migrate
 Clone to New Virtual Machine

Recent Tasks

Status	Details	Initiated by	vCenter Server	Requested Start Time	Start Time
Completed		Administrator	Desktop01.vclass.local	12/21/2011 10:25:31 ...	12/21/2011 10:25:31 ...
Completed		Administrator	Desktop01.vclass.local	12/21/2011 10:23:33 ...	12/21/2011 10:23:33 ...