



SRI LANKA INSTITUTE OF INFORMATION TECHNOLOGY

Enterprise Standards and Best Practices for IT Infrastructure

4th Year 2nd Semester 2016

V motion

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Practical Session: WE Monday

Practical Number : Lab 06

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VMware VMotion enables the live migration of running virtual machines from one physical server to another with zero downtime, continuous service availability, and complete transaction integrity. It is transparent to users.

```
Random_Init: Using random seed: 2844292685 (0x79d96dfd)
Reporting CPUID for 2 logical CPUs...

All CPUs are identical

Family: 06 Model: 17 Stepping: 6

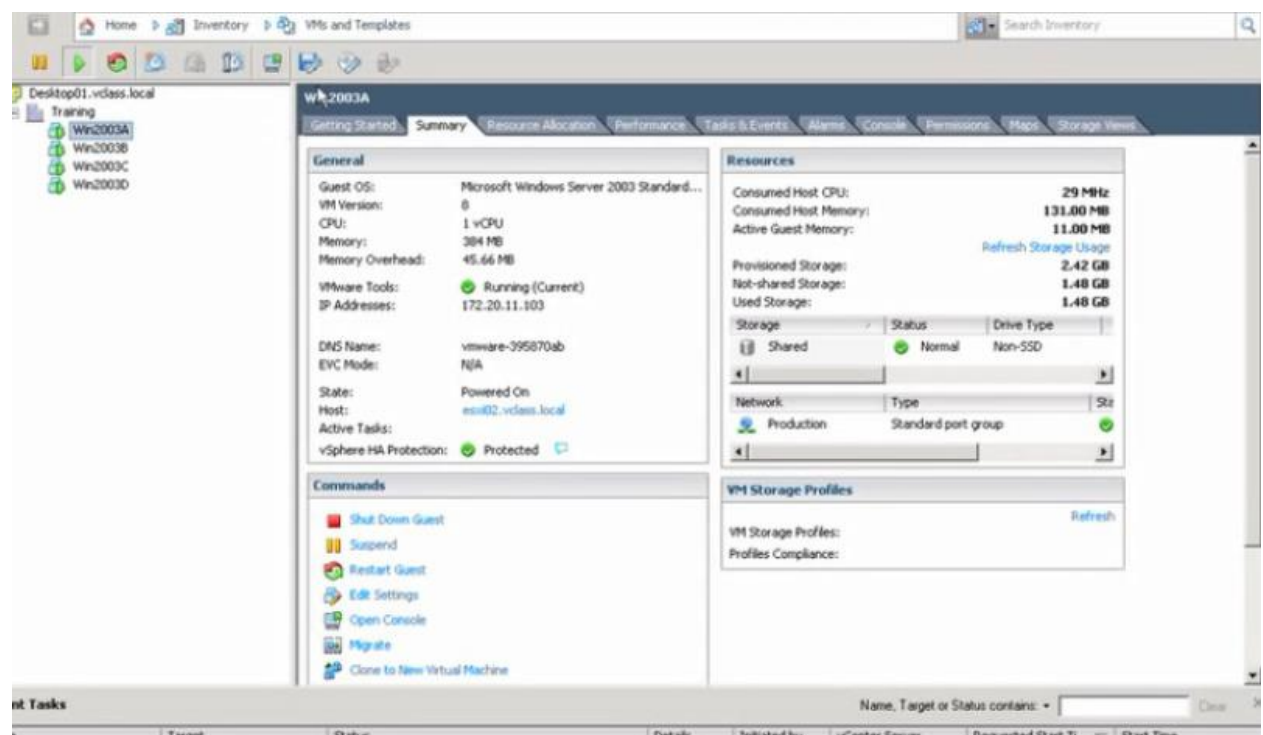
ID1ECX    ID1EDX    ID81ECX    ID81EDX
0x00082201 0x0febfbff 0x00000001 0x20100000

Vendor      : Intel
Brand String : "Intel(R) Xeon(R) CPU           X5482  @ 3.20GHz"
SSE Support : SSE1, SSE2, SSE3, SSSE3, SSE4.1
Supports NX / XD : Yes
Supports CMPXCHG16B : Yes
Supports RDTSCP : No
Hyperthreading : No
Supports Flex Migration : Yes
Supports 64-bit Longmode : Yes
Supports 64-bit VMware : No
Supported EUC modes : None

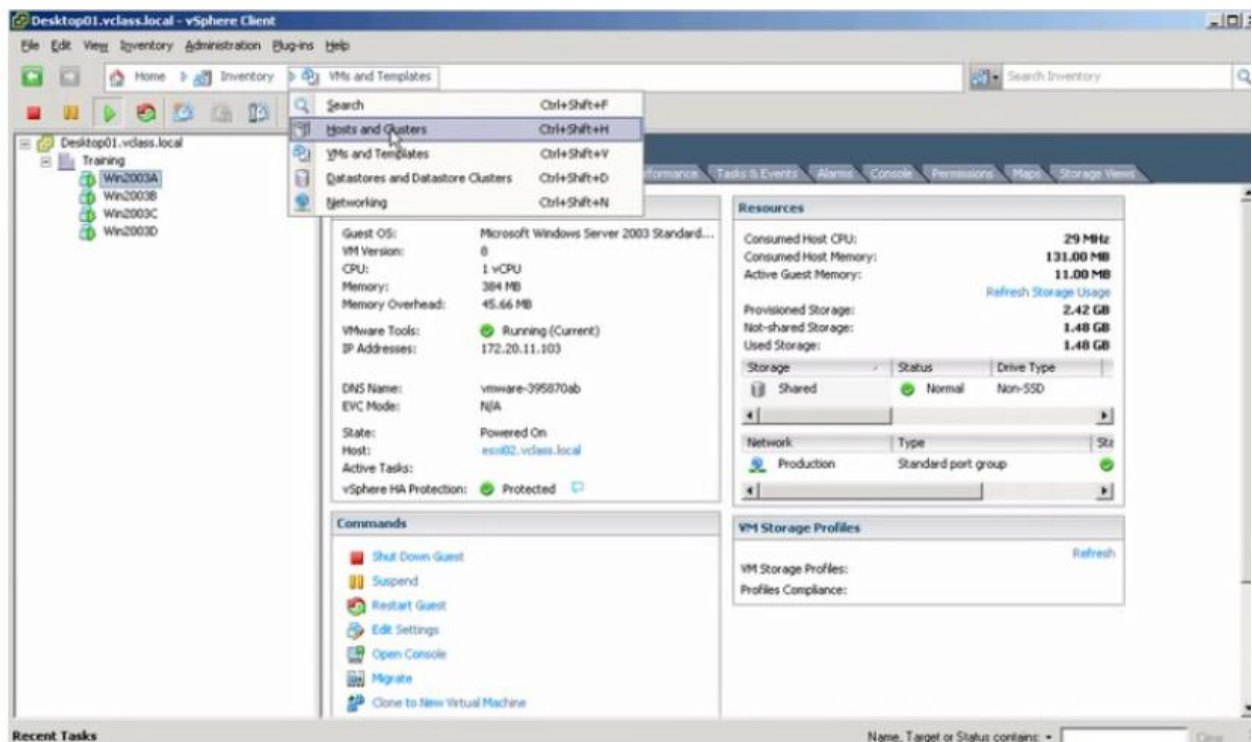
PASS: Test 56983: CPUID
Press any key to reboot.
```

One way to identify CPU characteristics is to use the VMware CPU identification utility.

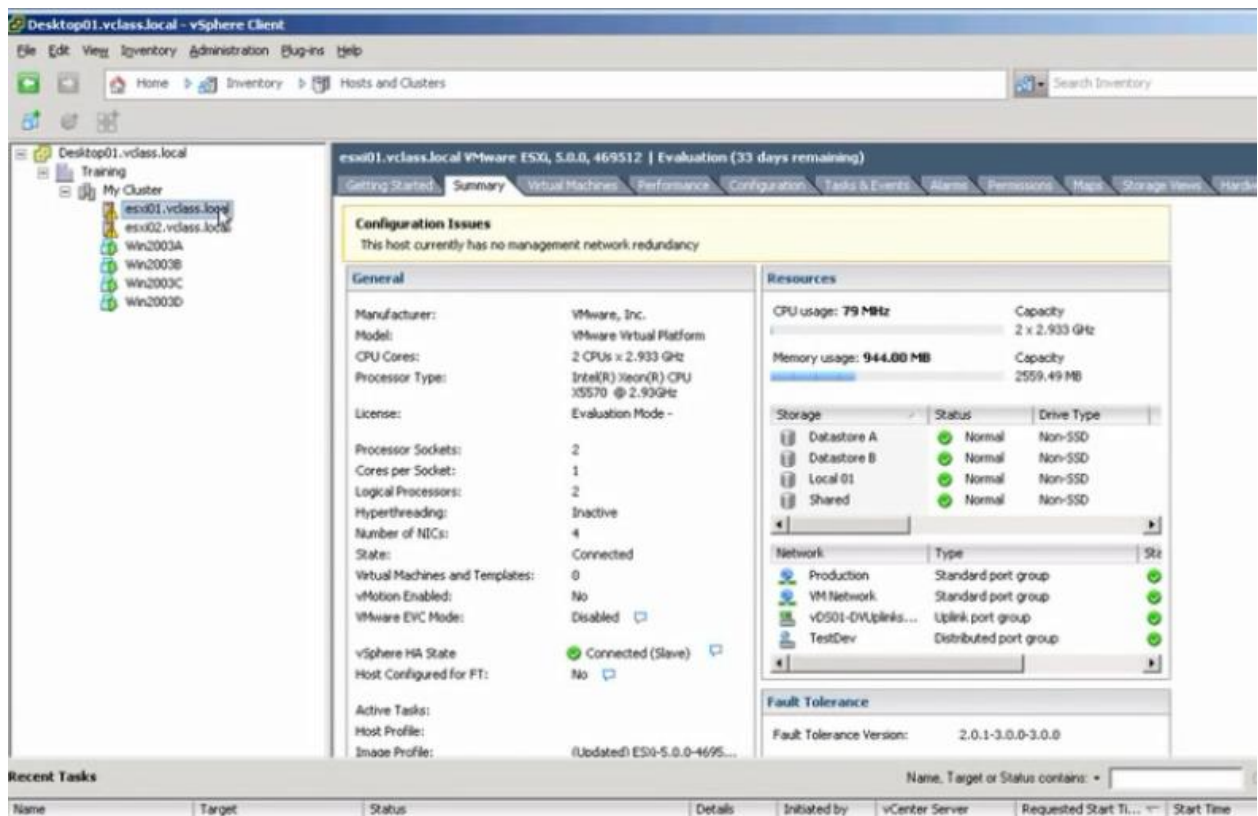
1. Configuring the host to do the v motion



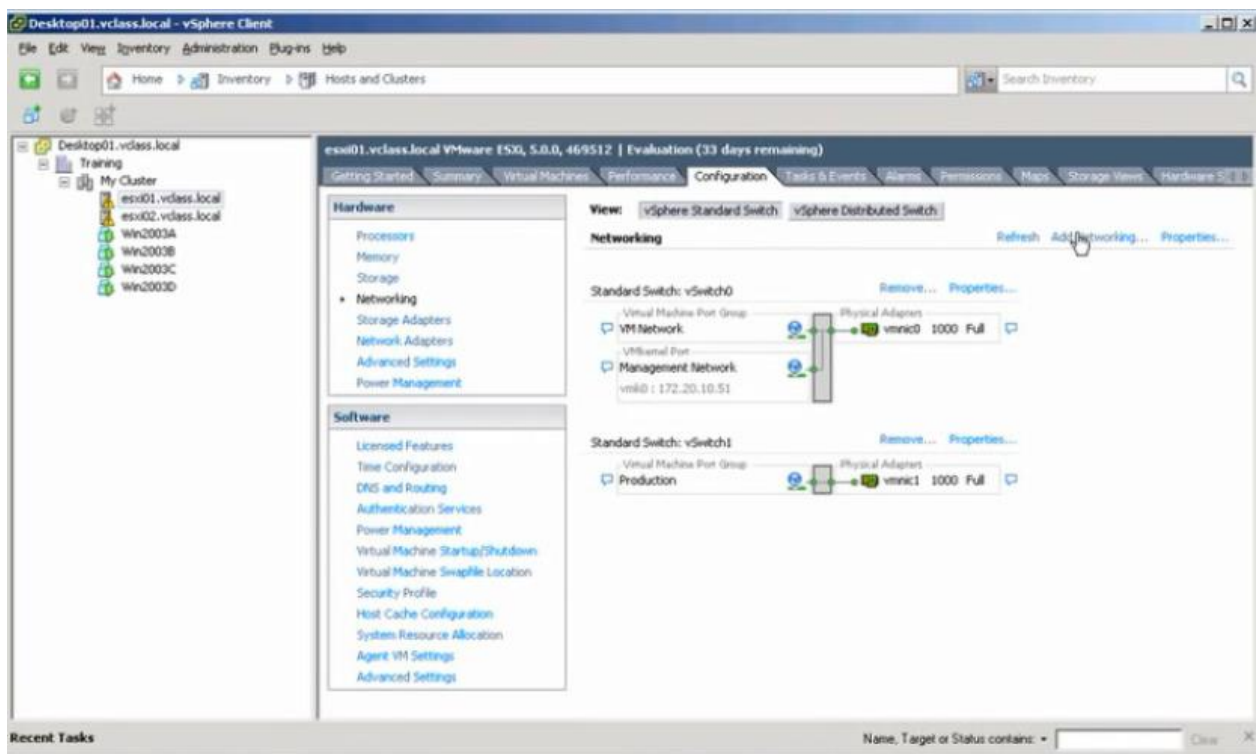
2. changing the vms state to host and cluster.



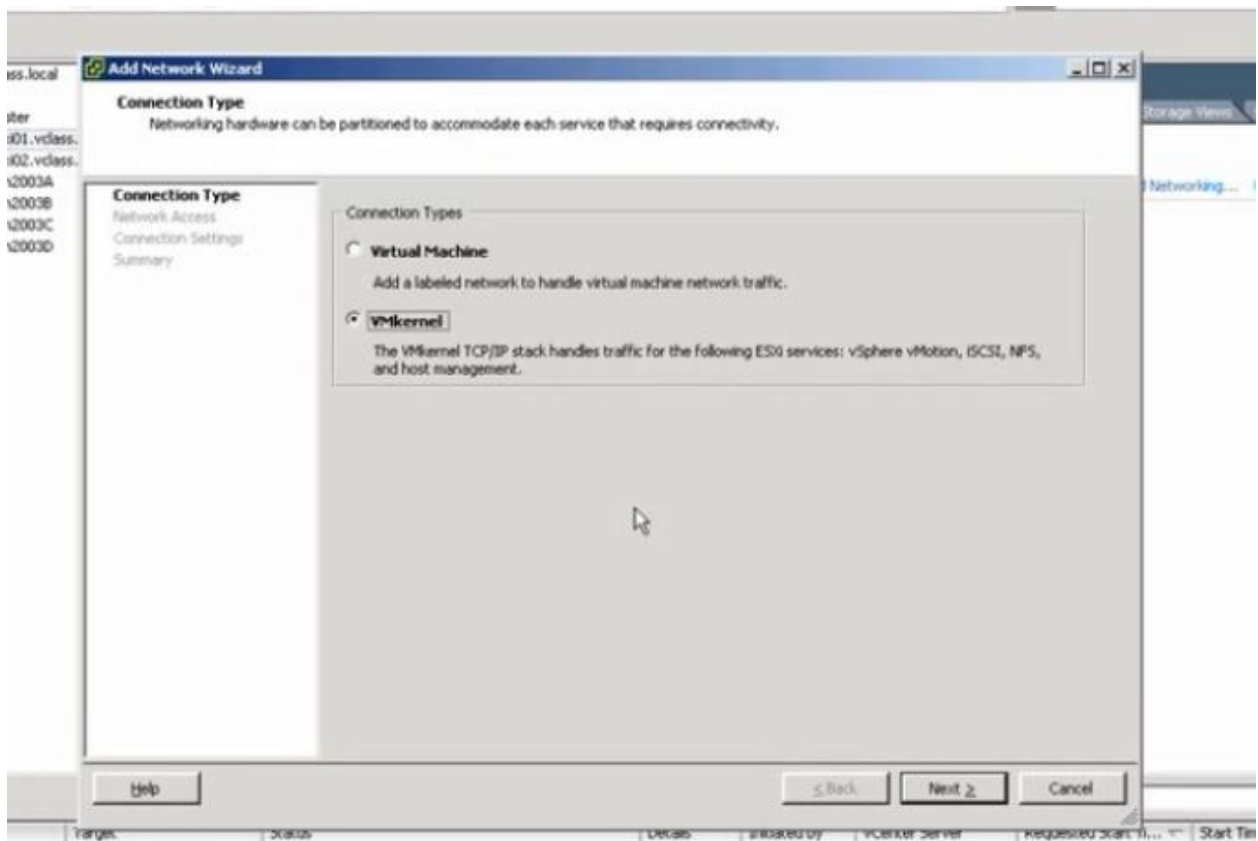
3.create vm kernel ports on each host



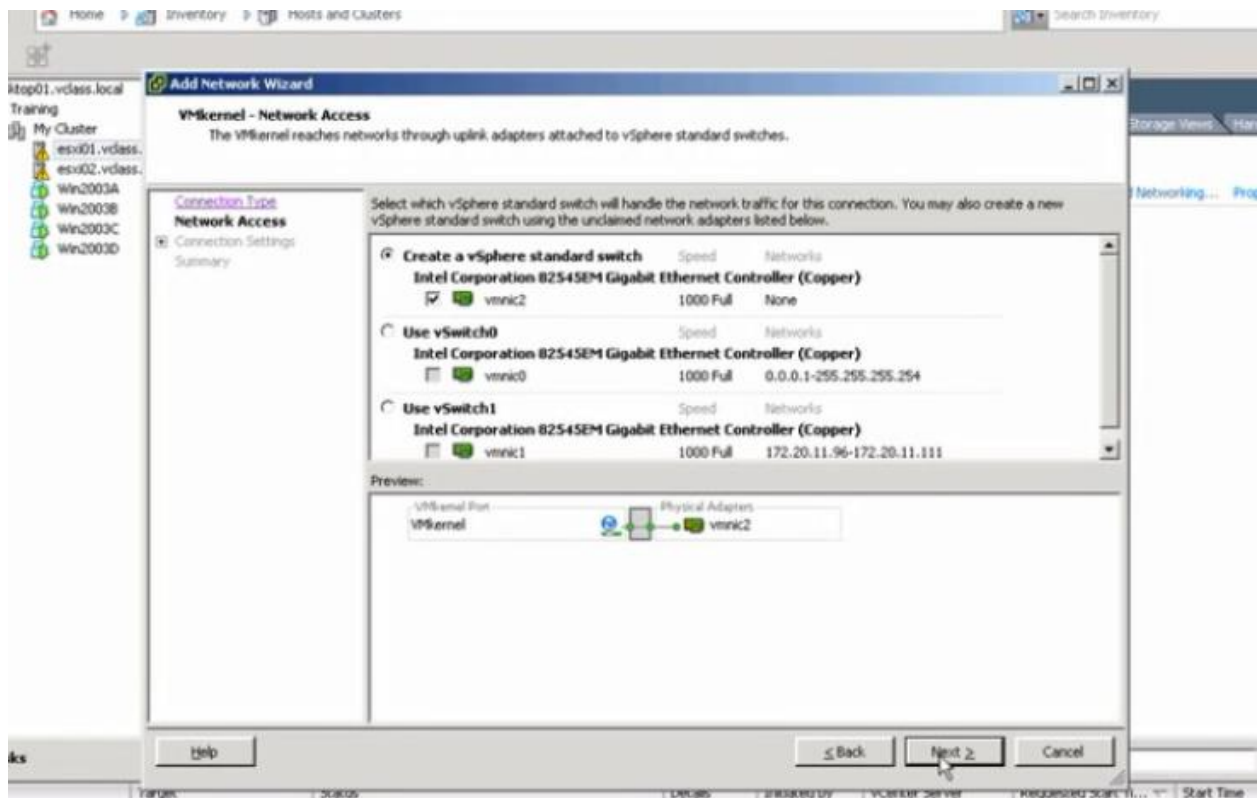
4. Select the 1st ESXi host and go to the configuration tab and then press add networking.



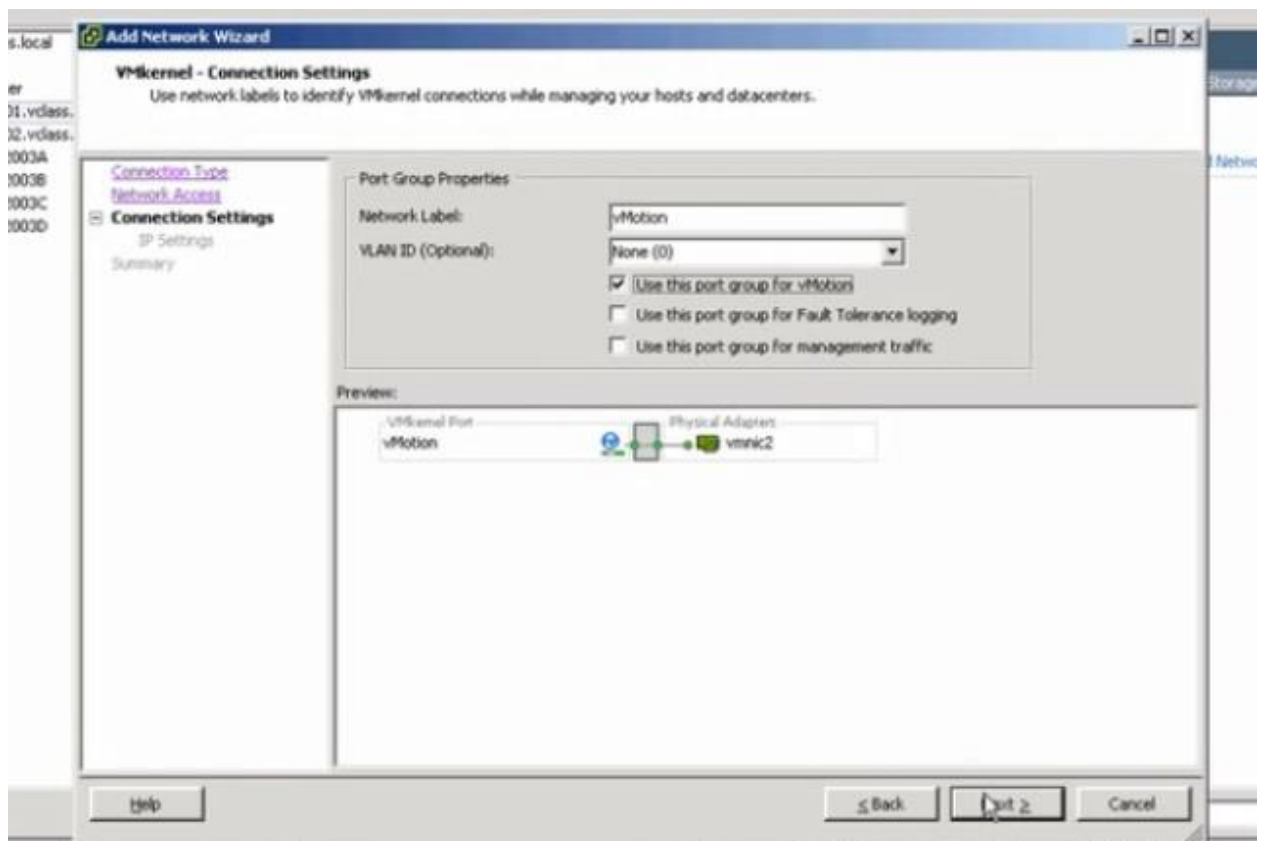
5. Select vmkernel and press next button



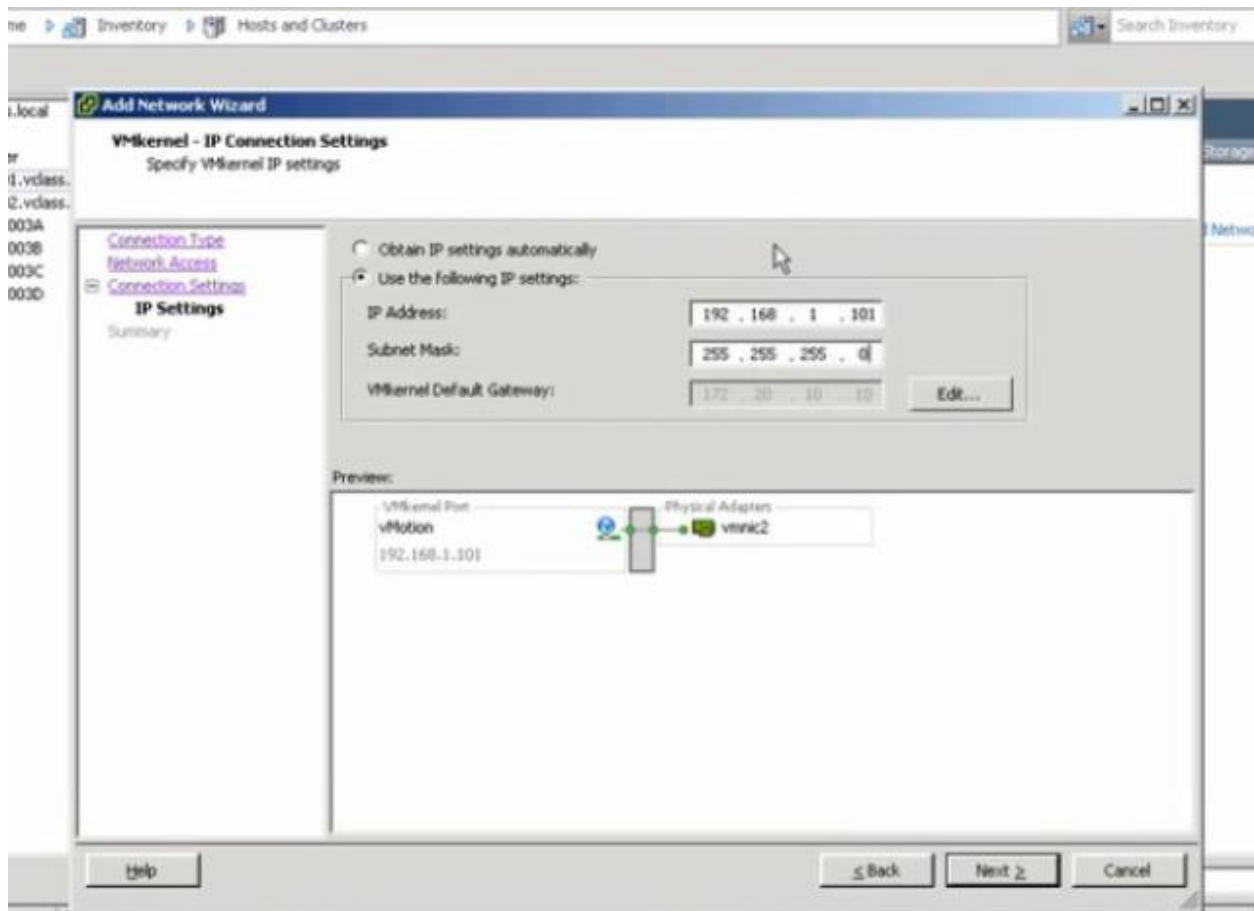
6. Specify which physical network the vMotion traffic will be transmitted



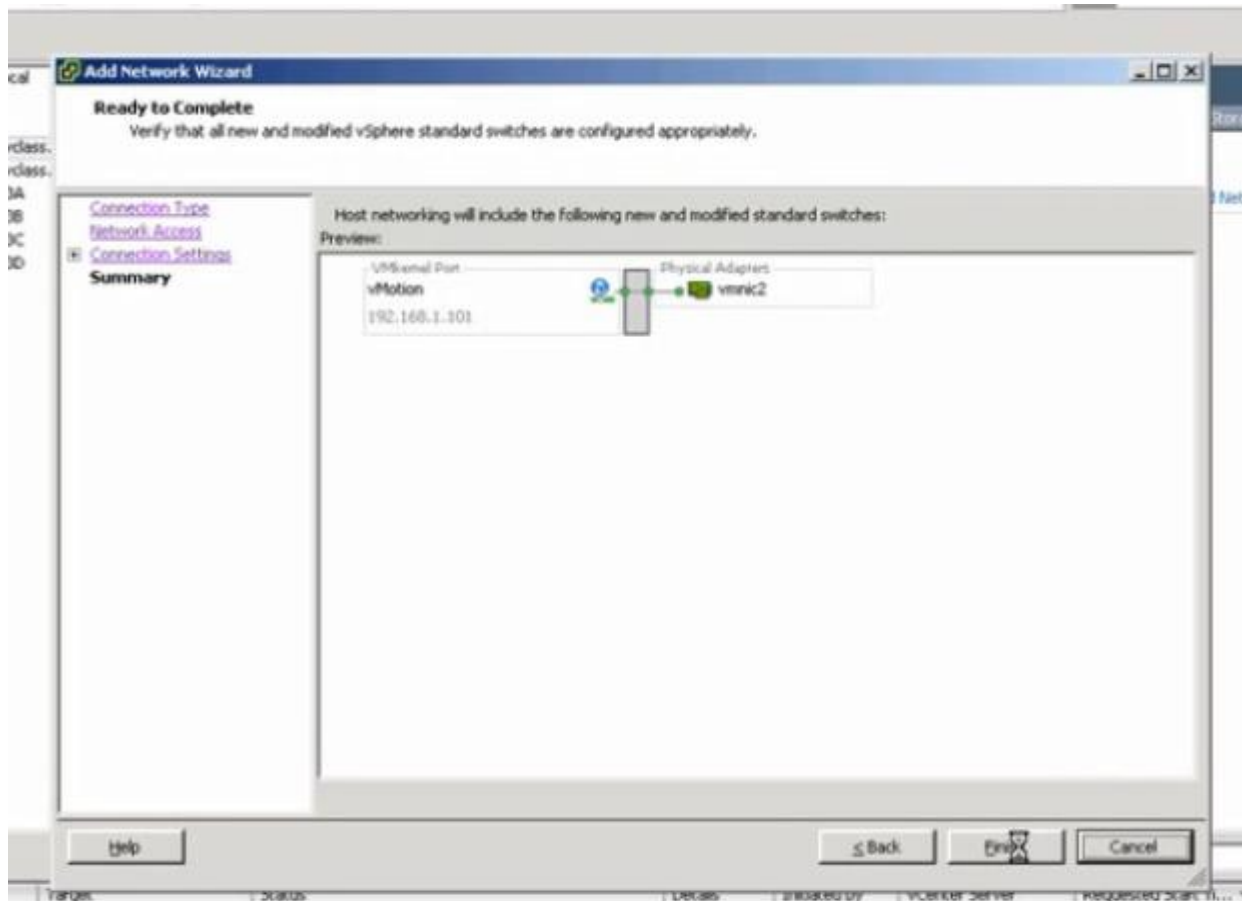
7.set network label and vlan ID and press next.



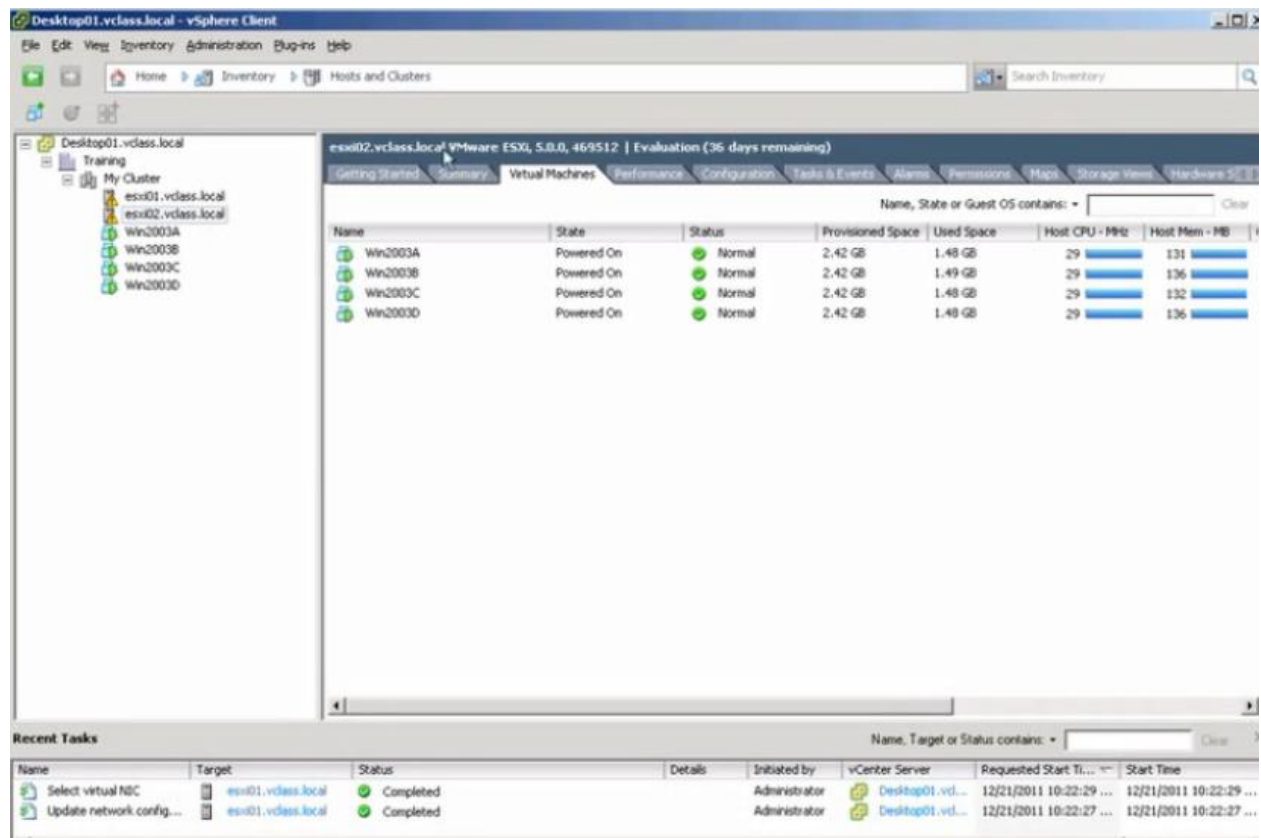
8 . Specify the IP address (192.168.1.101) and the subnet mask, and then click next.



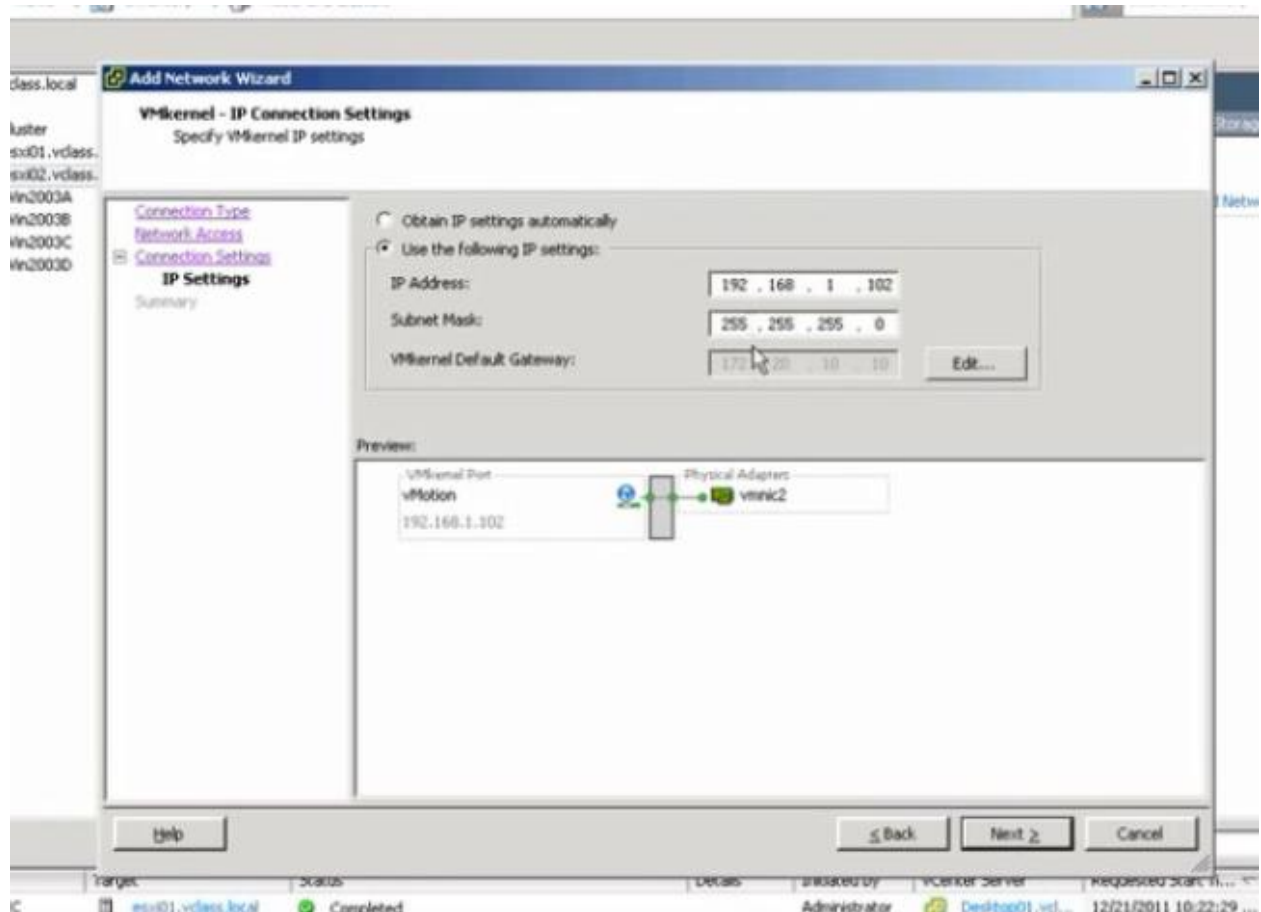
9 . Click finish



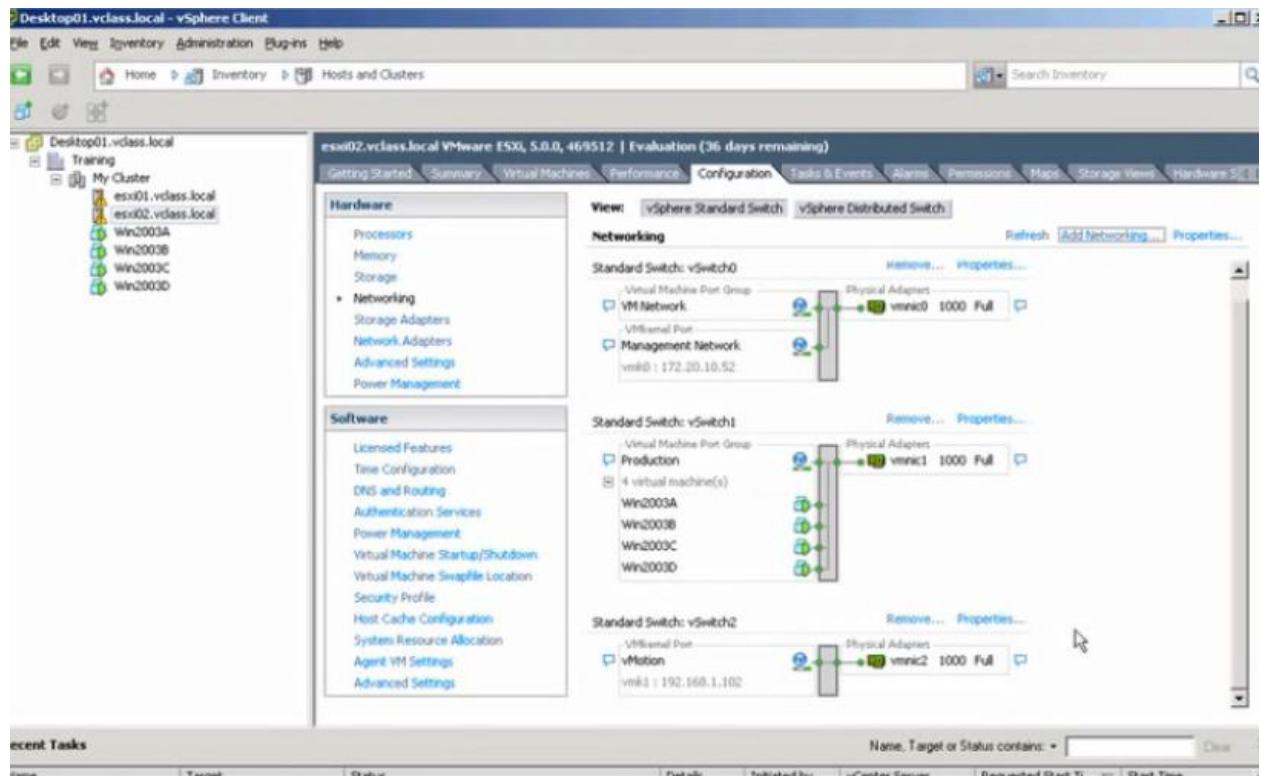
10. Then again do the same configurations to the second host



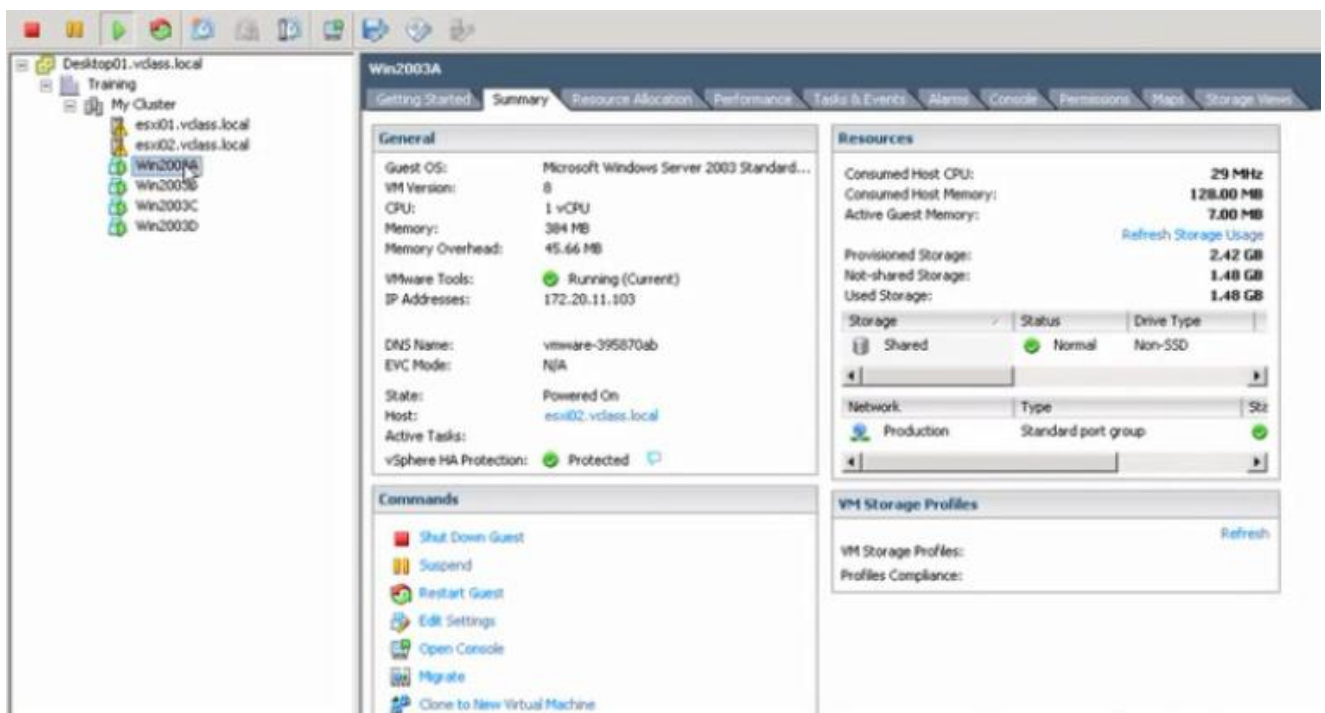
11. just change the IP address to 192.168.1.102



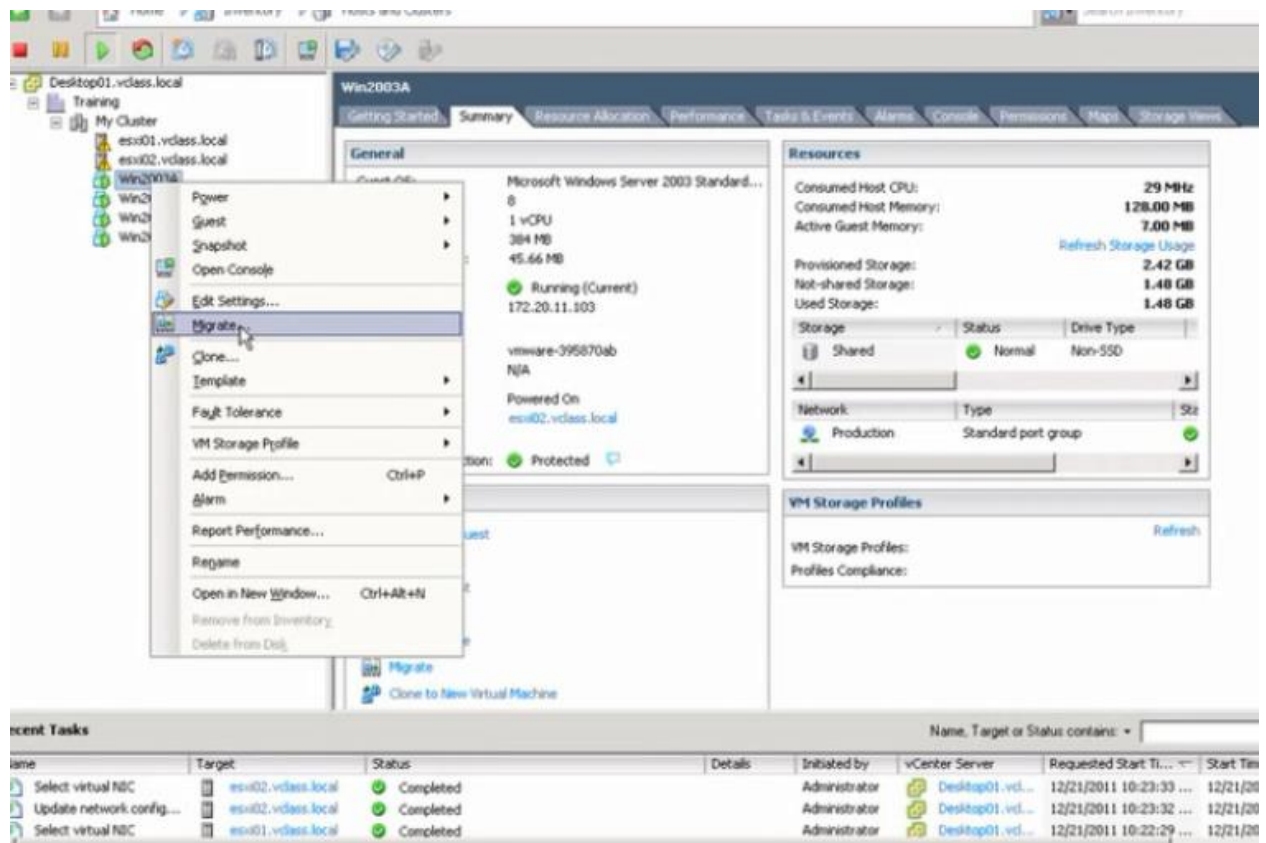
12. Virtual switch is created below for the 2nd host



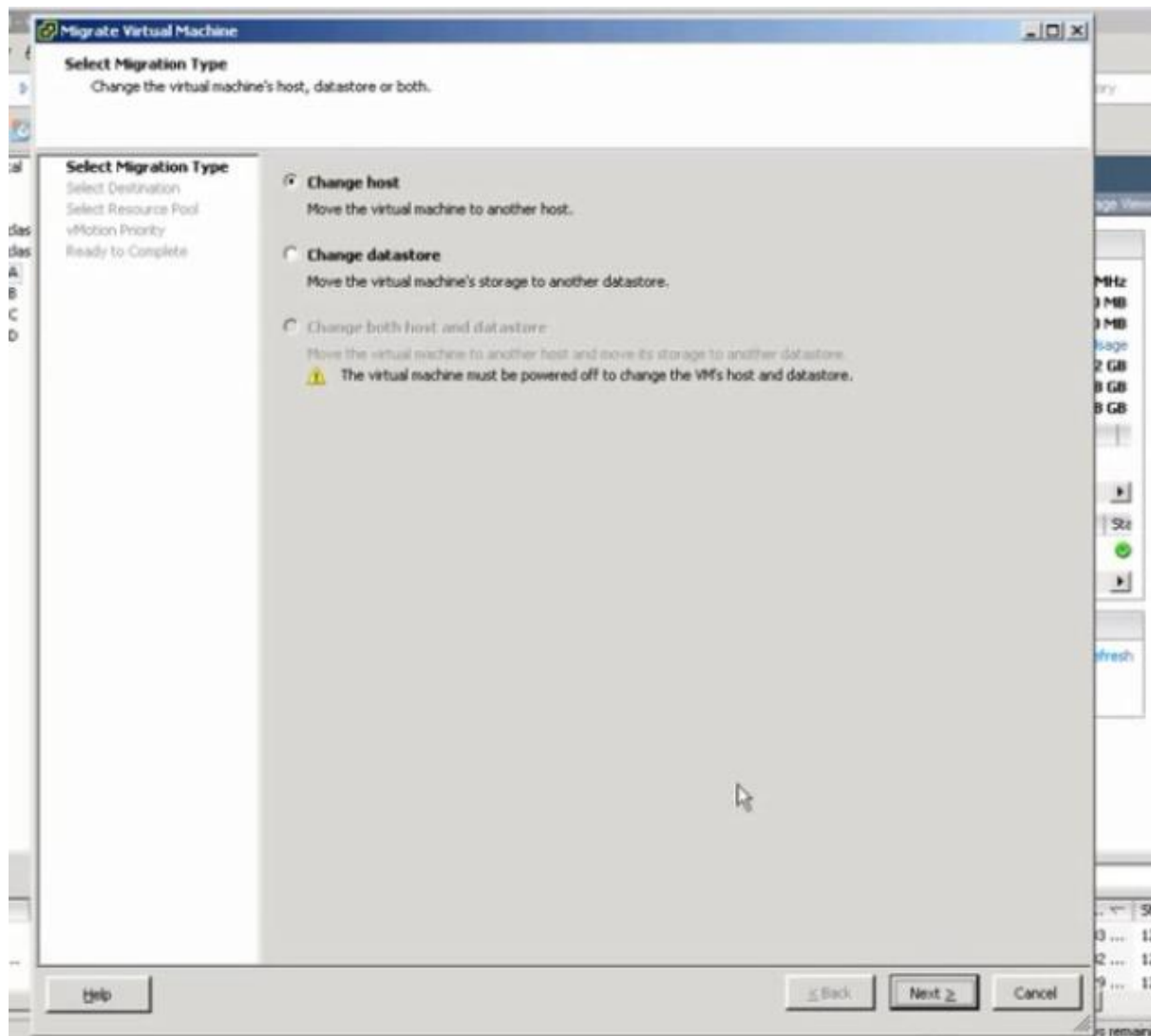
13 .virtual machine is currently running on the host 2. And lets migrate this virtual machine to host 1



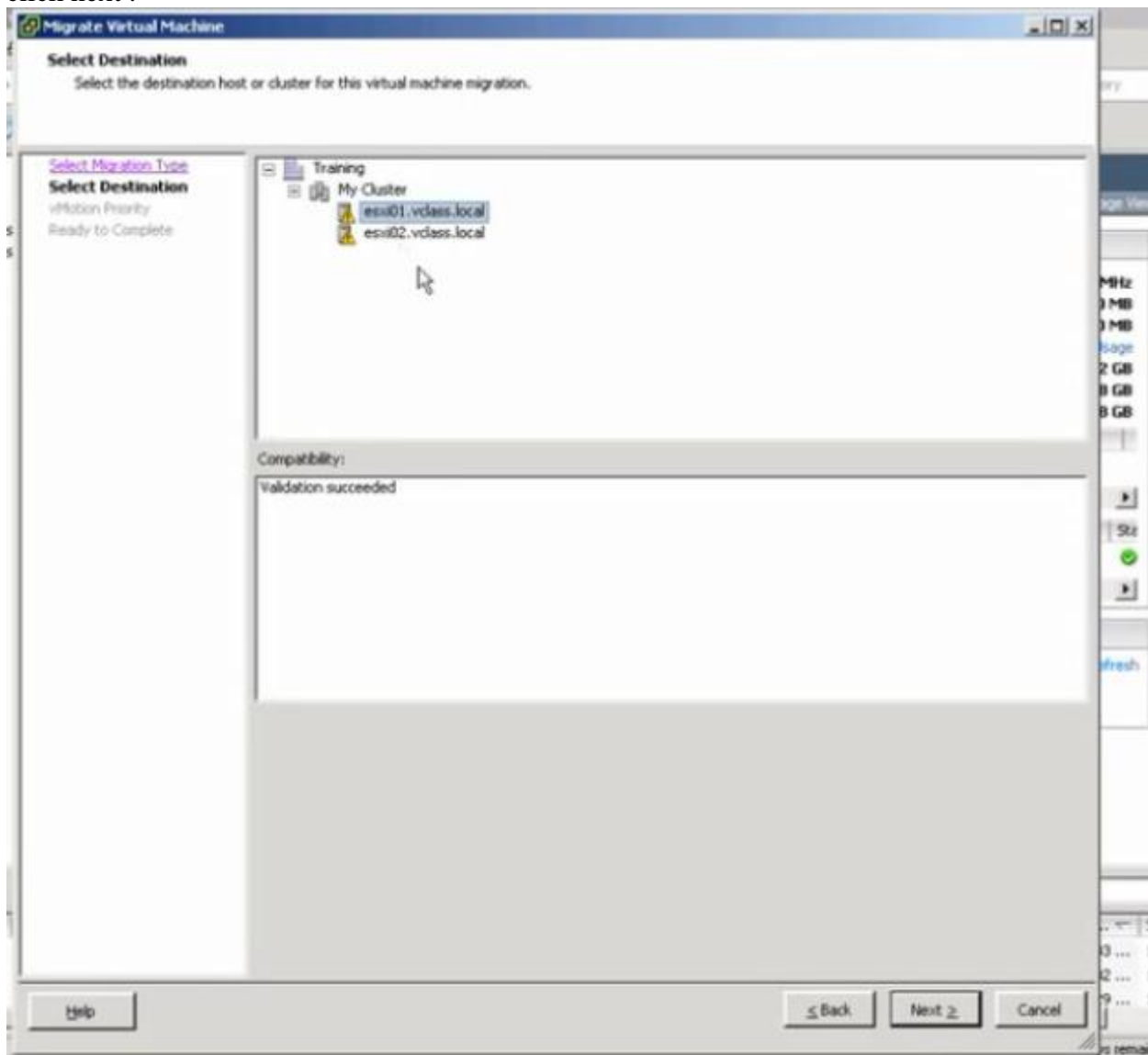
14. right click on the virtual machine and click migrate



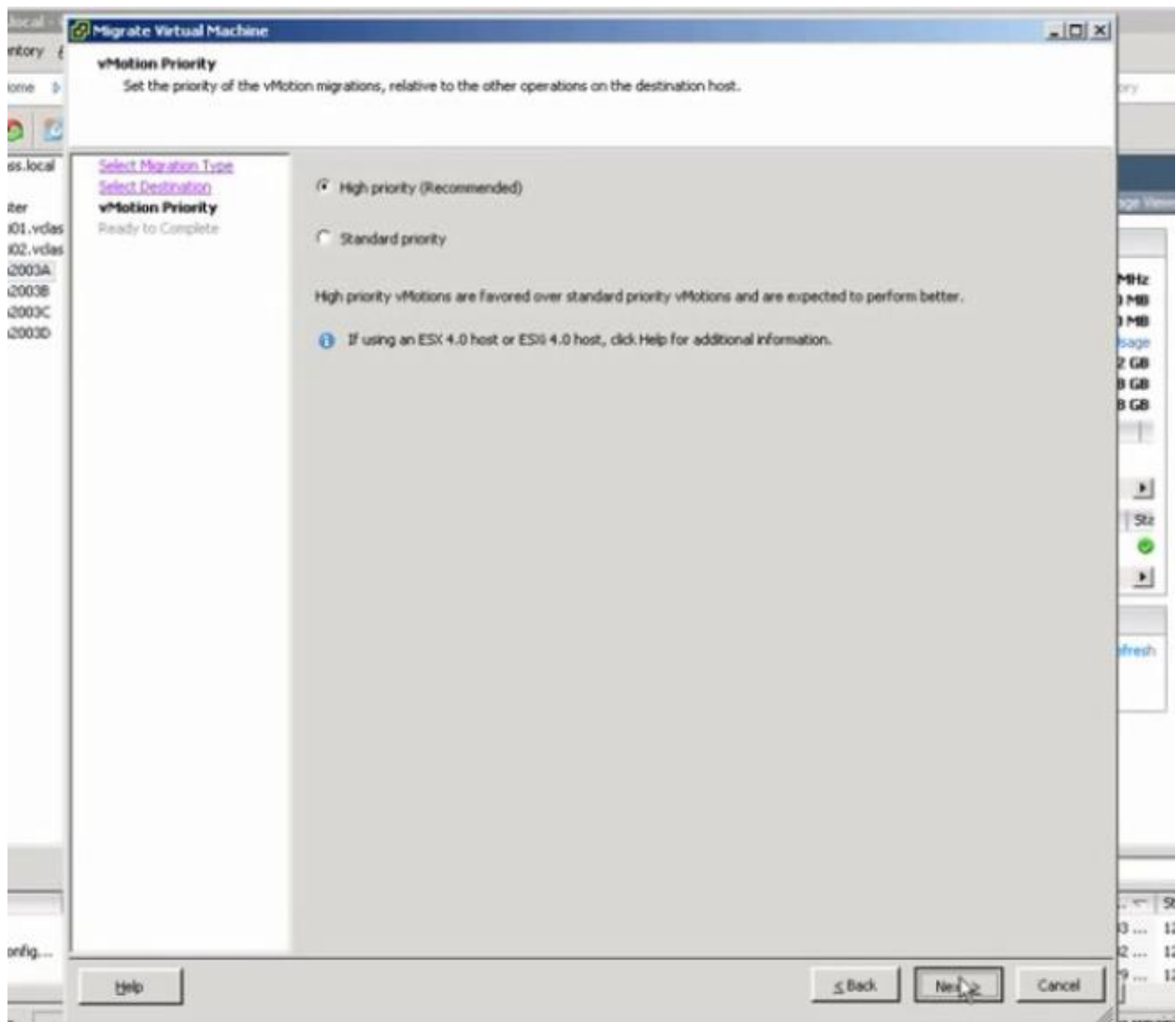
15. select change host and click next



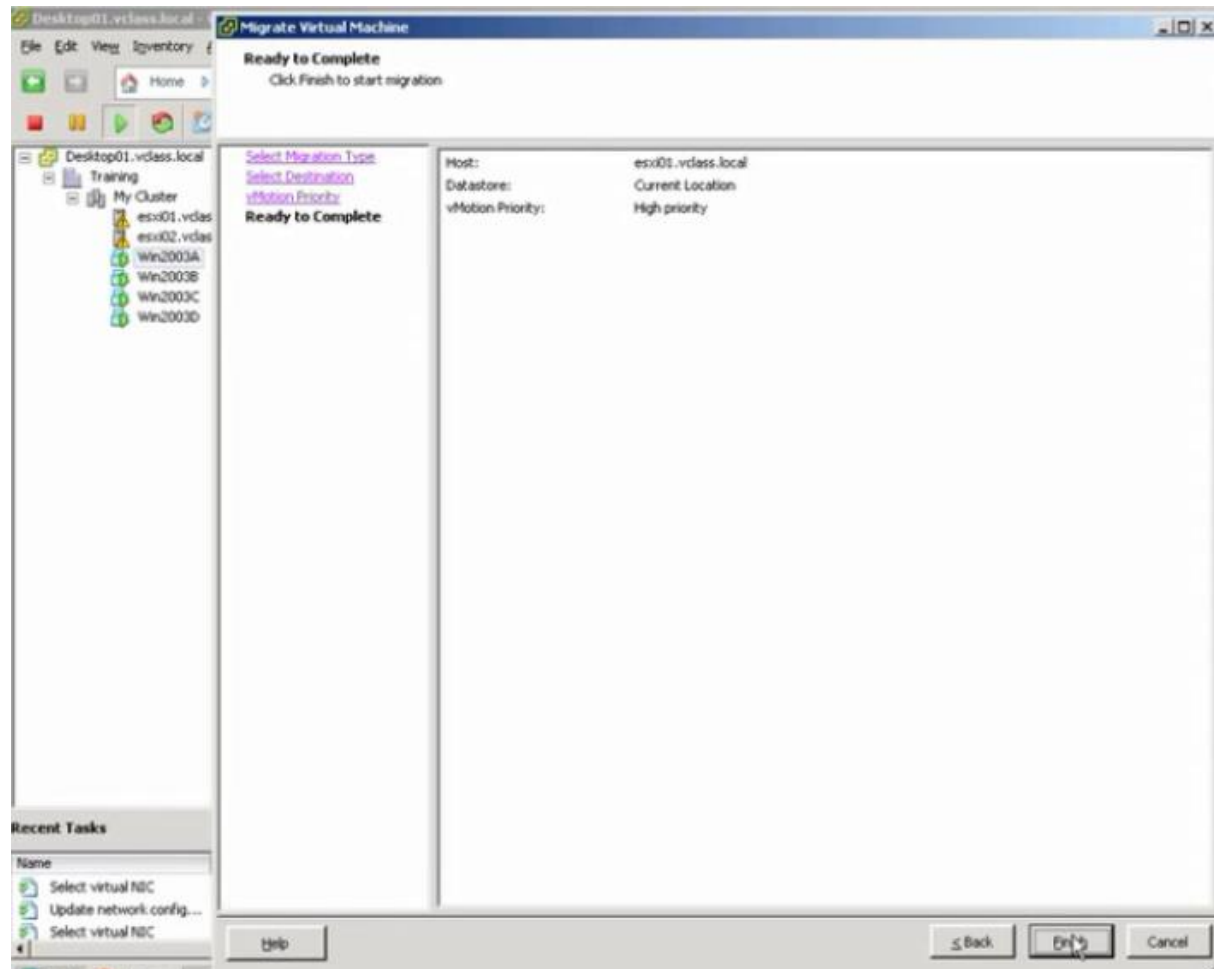
16 . Here specify which ESXi server to migrate the virtual machine. Select the ESXi1.and click next .



17. select high priority as recommended and press next.



18 . Now the virtual machine is ready to migrate, click finish button to start migration.



19. from the summary report we can see the virtual machine is now running on the ESXi2 server.

The screenshot displays the vSphere Client interface for a virtual machine named 'Win2003A'. The left sidebar shows the inventory tree with 'Desktop01.vclass.local' expanded, revealing a 'My Cluster' containing 'esxi01.vclass.local', 'esxi02.vclass.local', and 'Win2003A'. The main pane shows the 'Summary' tab for 'Win2003A'.

General

- Guest OS: Windows Server 2003
- 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: N/A
- 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
- Provisioned Storage: 2.42 GB
- Not-shared Storage: 1.48 GB
- Used Storage: 1.48 GB

Storage

Storage	Status	Drive Type
Shared	Normal	Non-SSD

Network

Network	Type	Size
Production	Standard port group	512

Commands

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

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