V motion

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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: 2044292605 (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 EVC modes       : None

PASS: Test 56983: CPUID
Press any key to reboot.
```
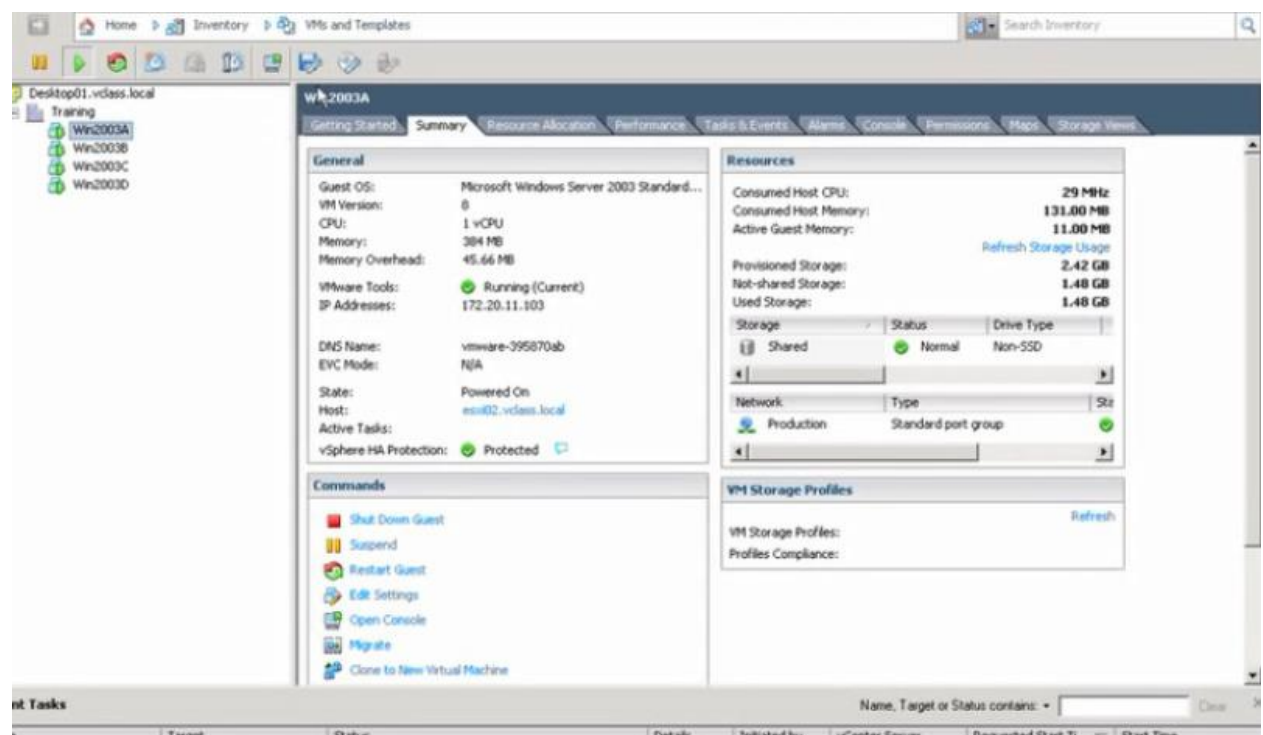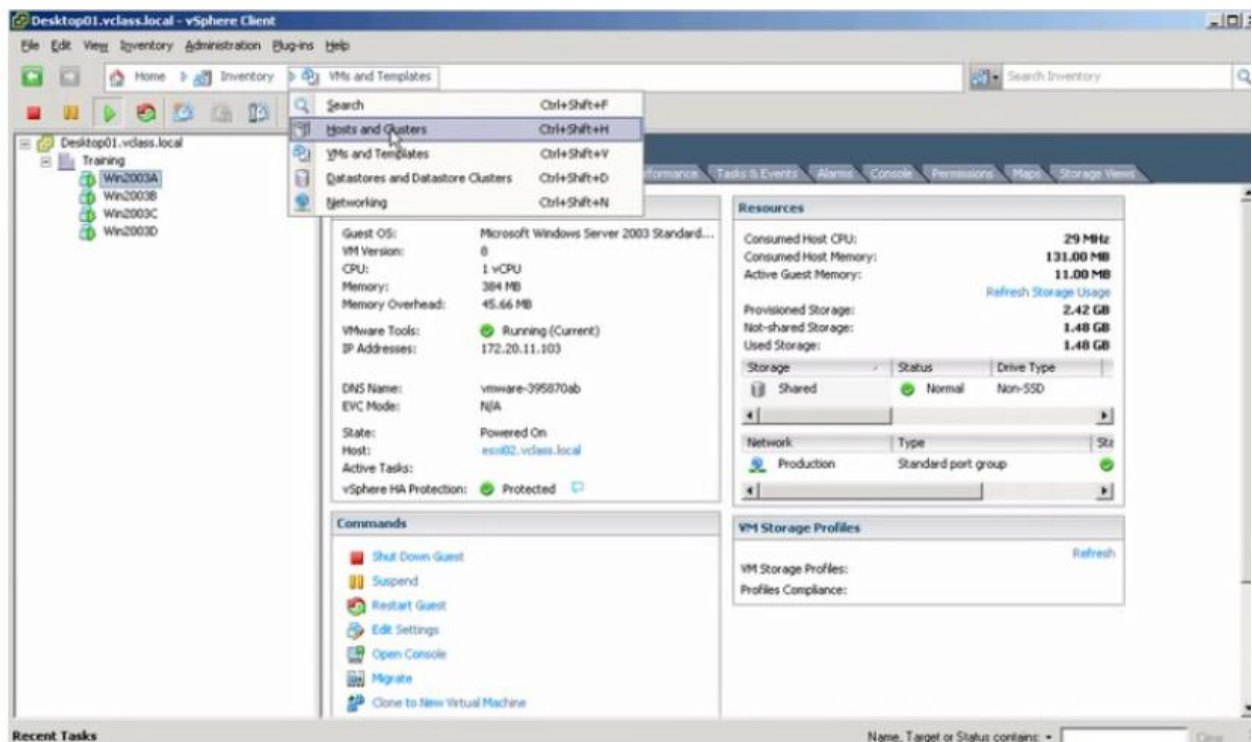
One way to identify CPU characteristics is to use the VMware CPU identification utility.
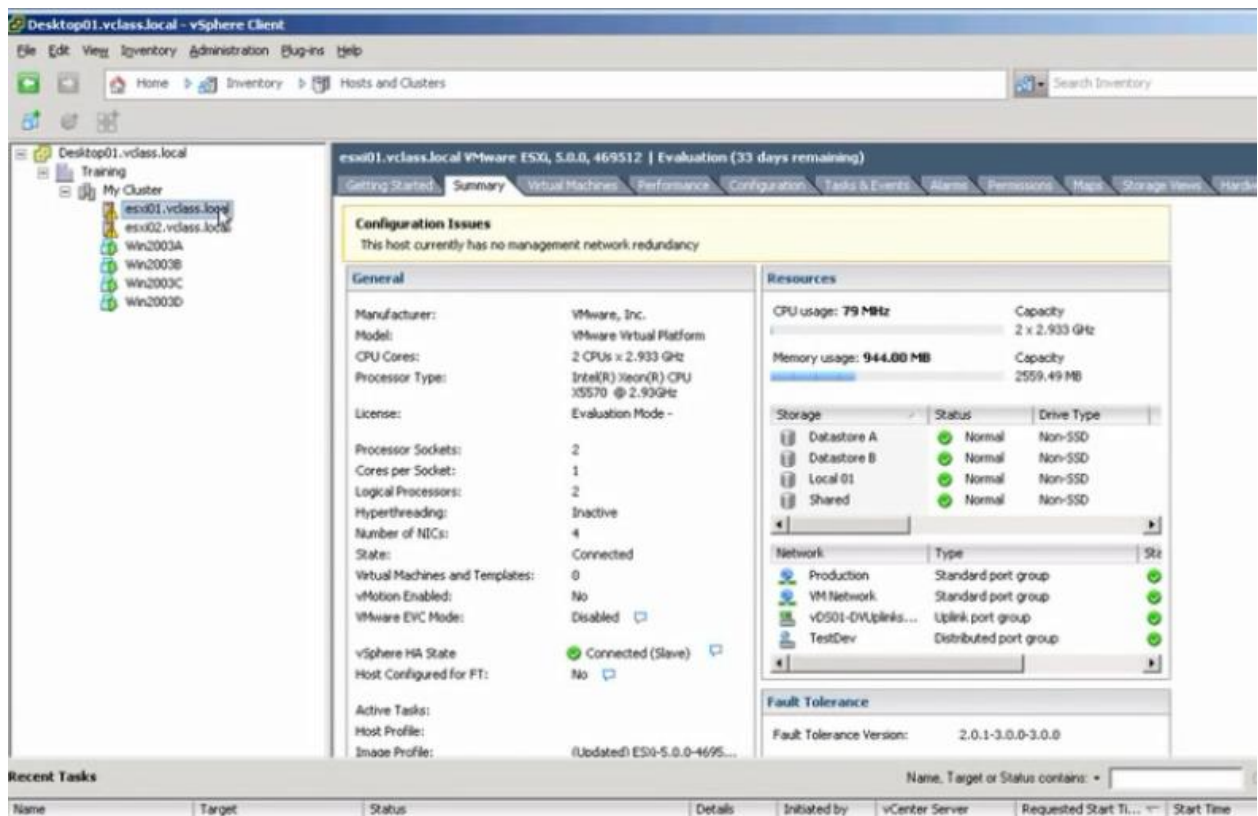
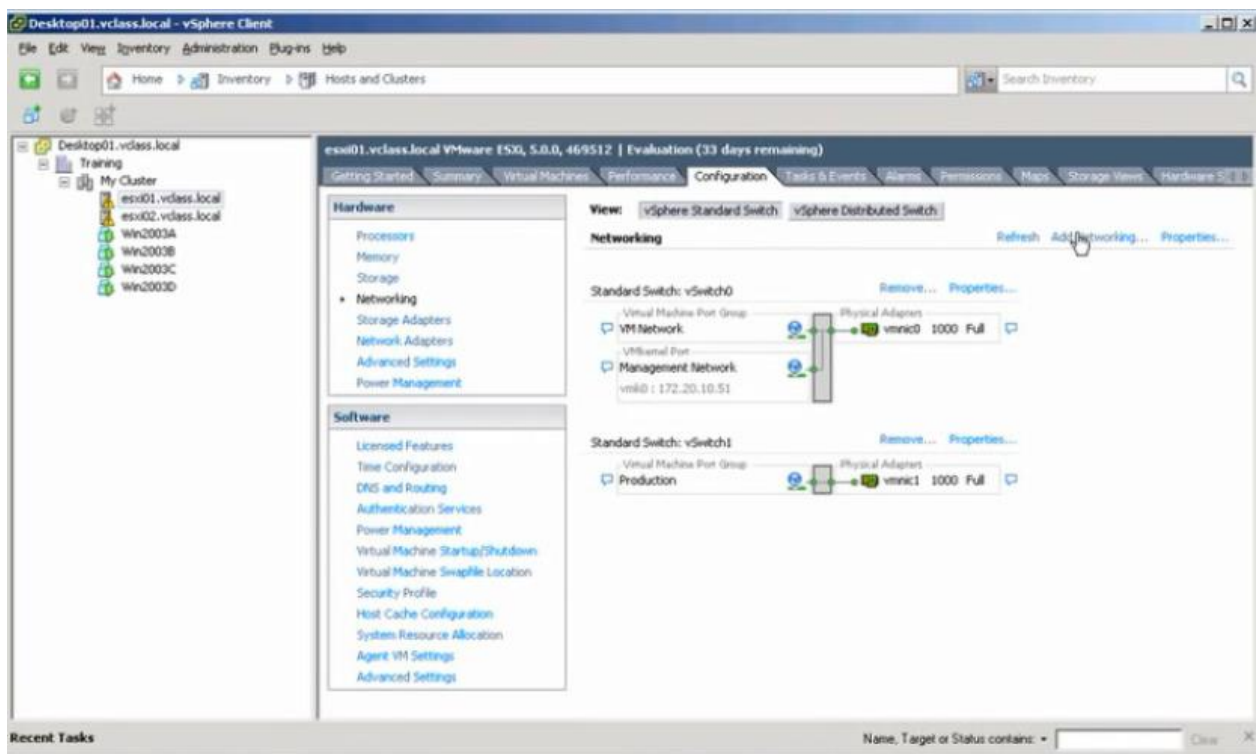1. Configuring the host to do the v motion

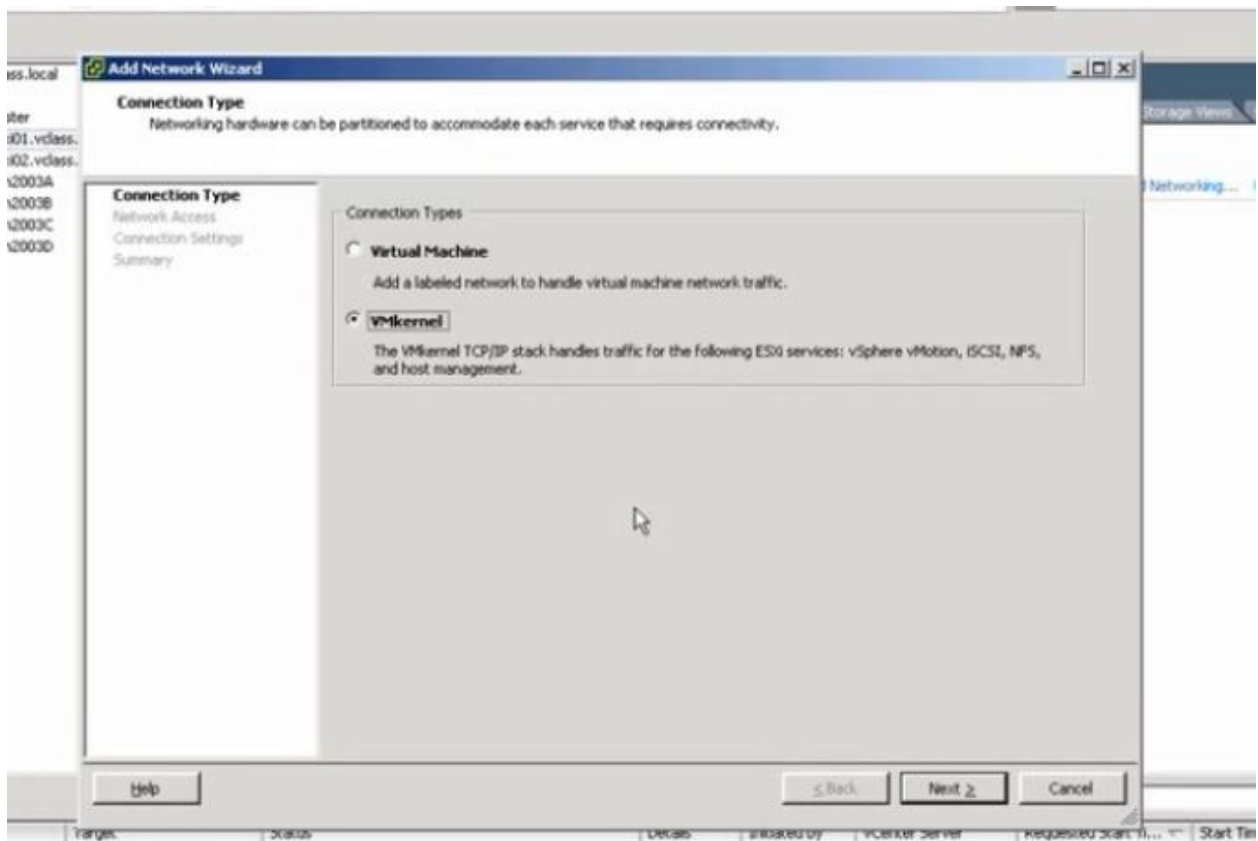2. changing the vms state to host and cluster.
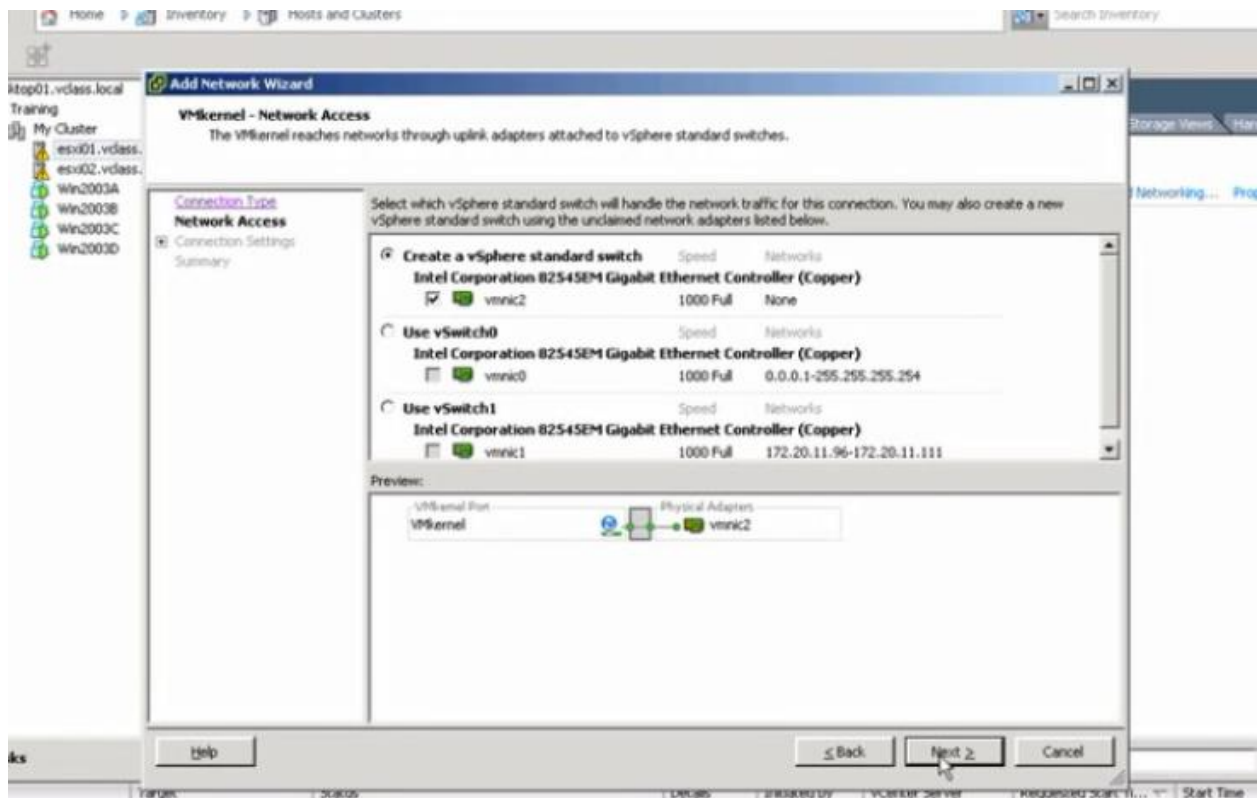

3.create vm kernel ports on each host

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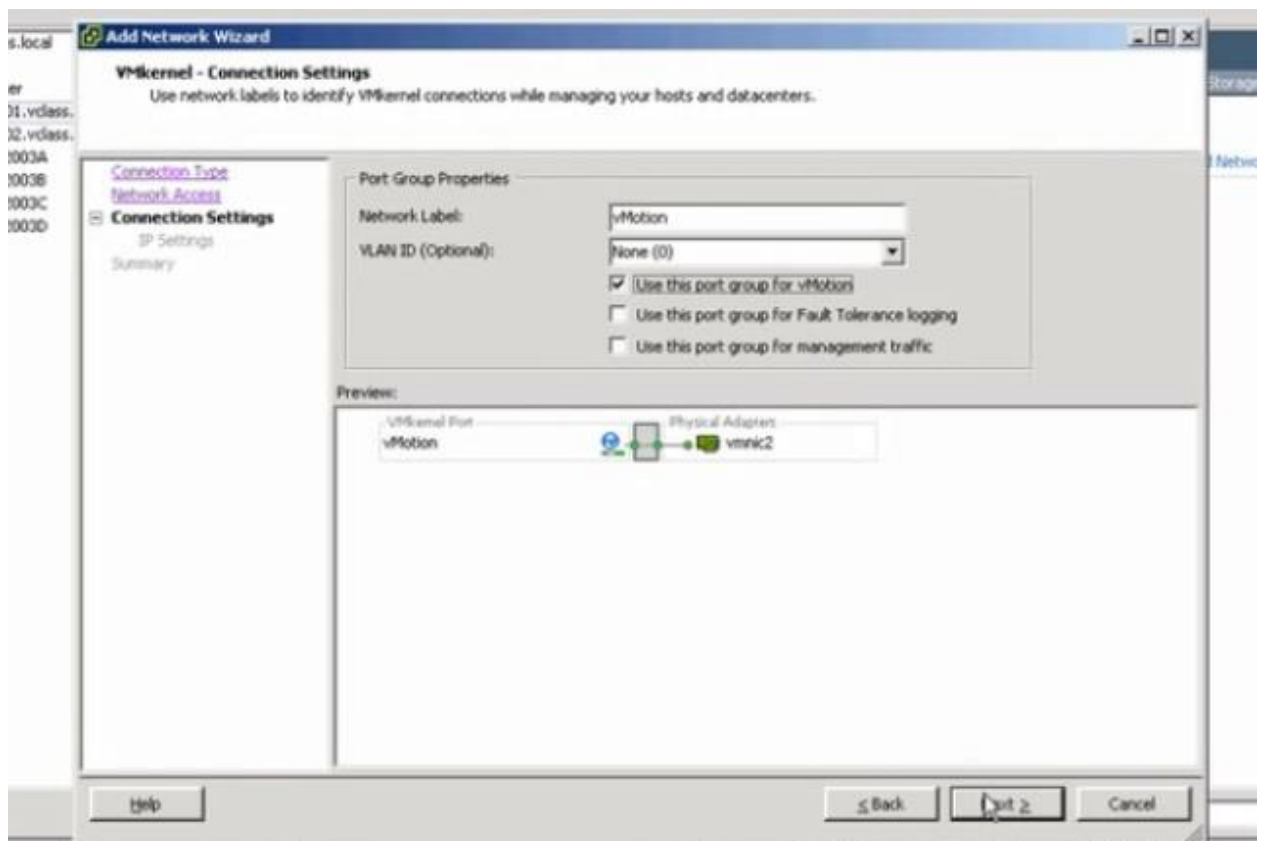

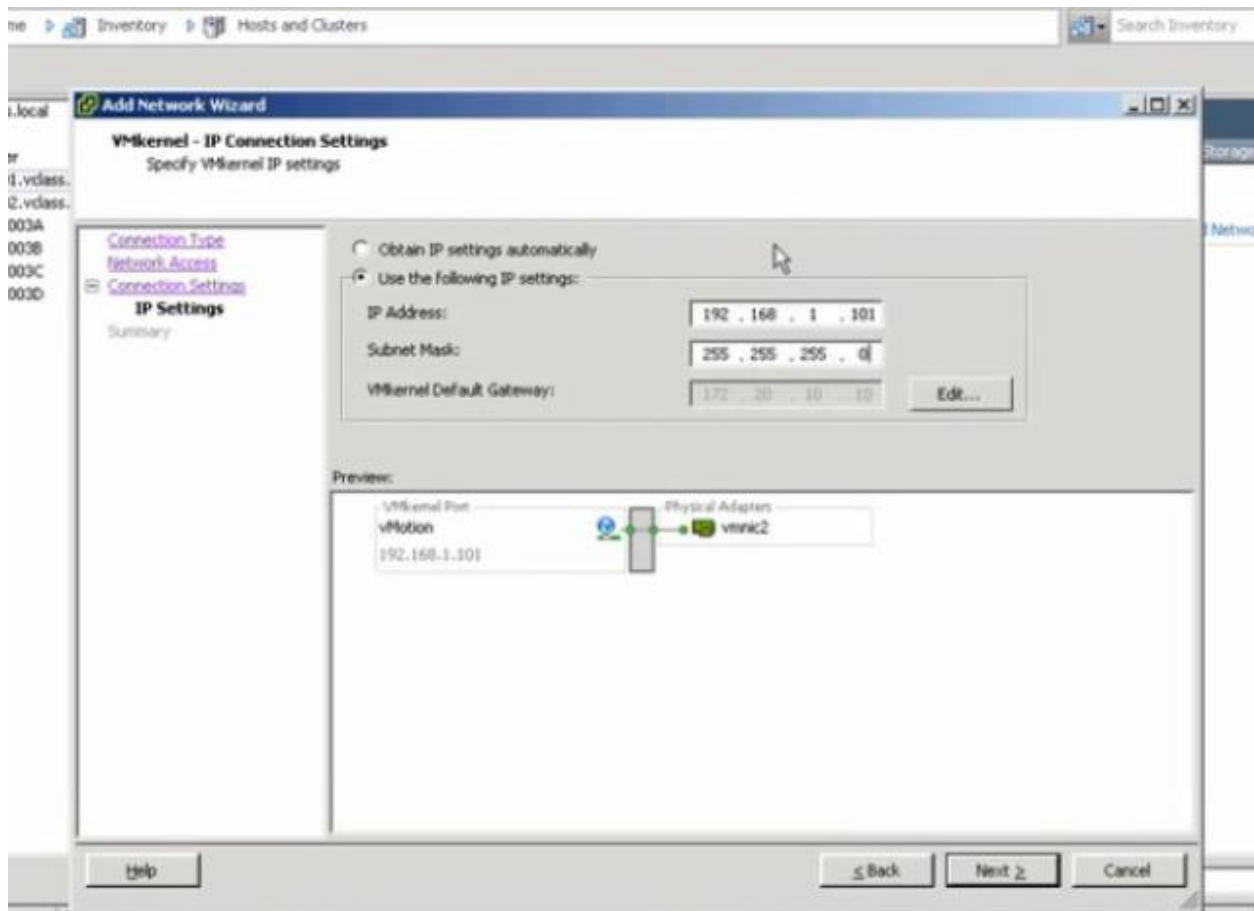5. Select vmkernel and press next button

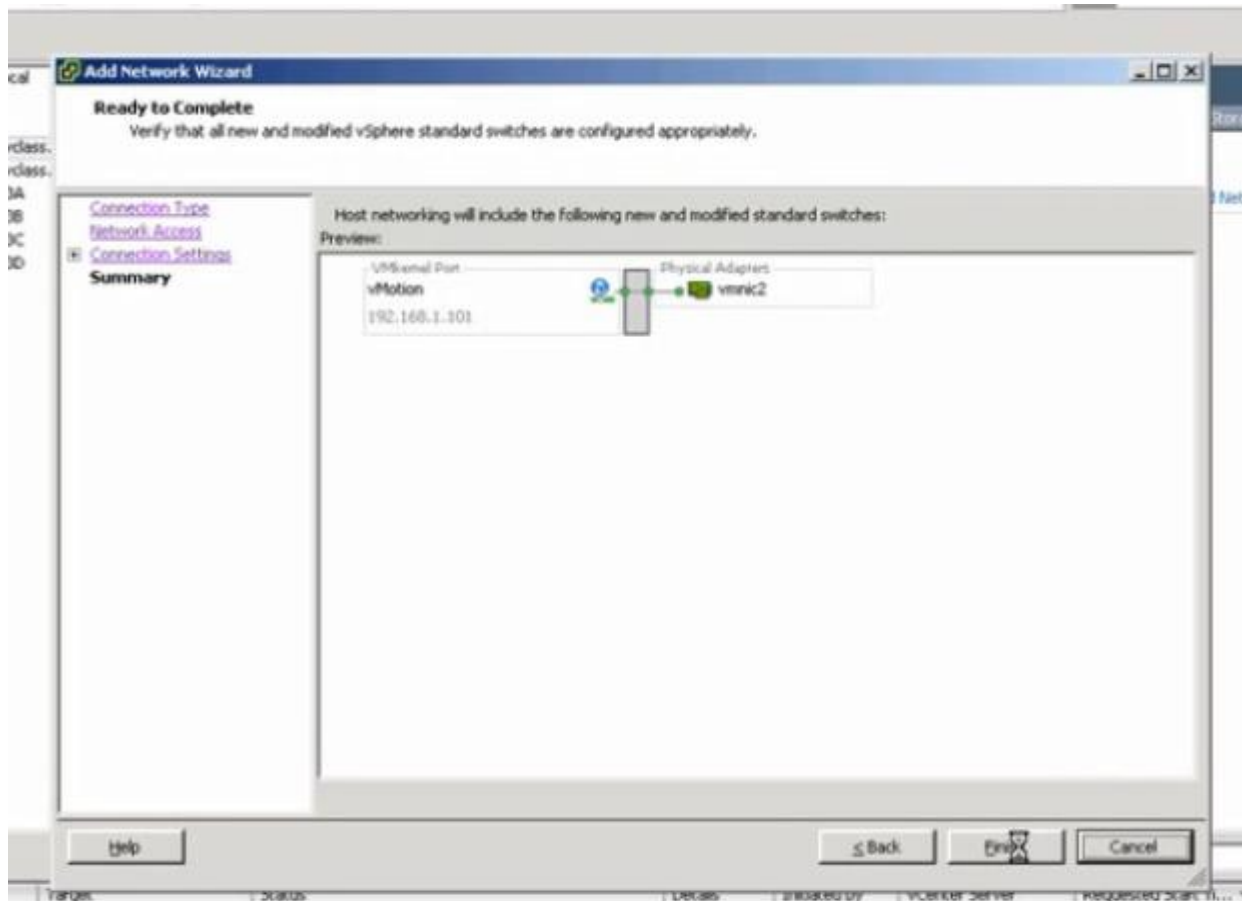6. Specify which physical network the vMotion traffic will be transmitted

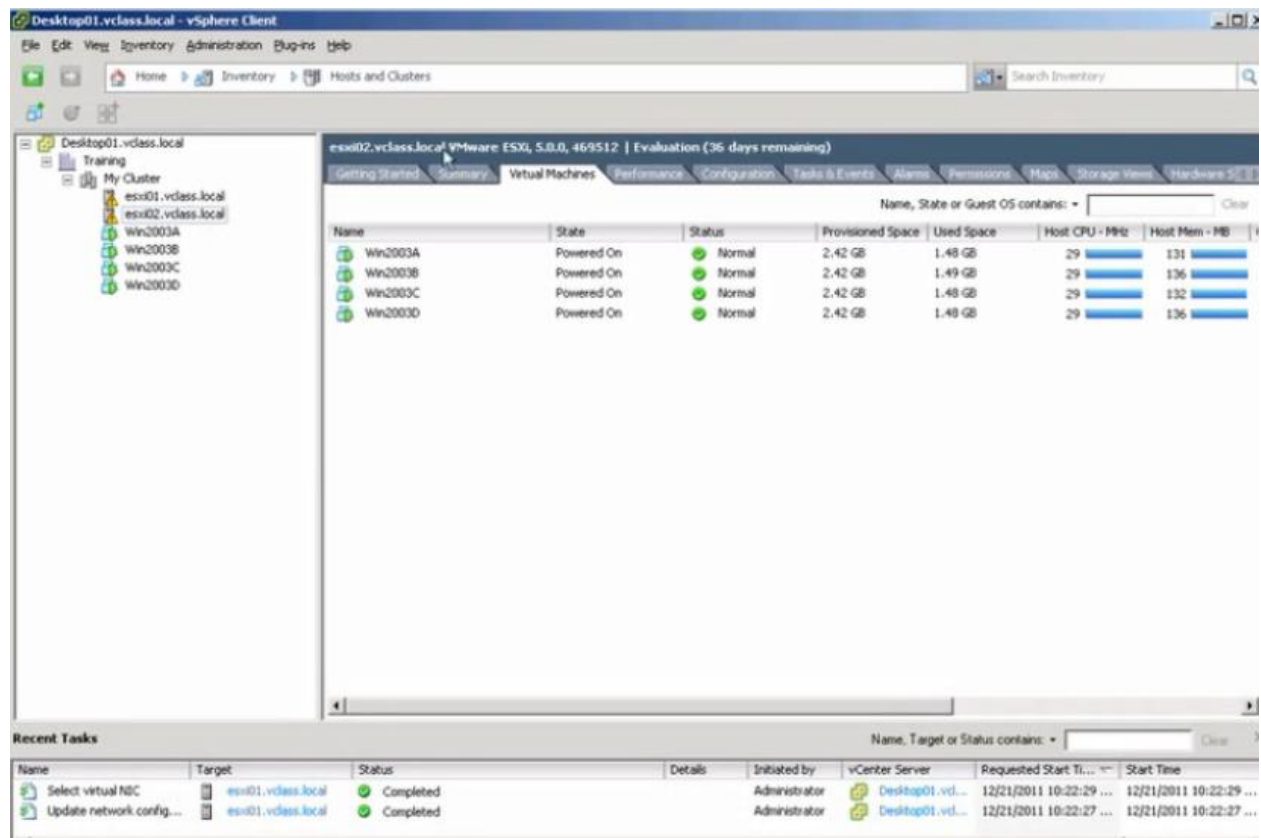7.set network label and vlan ID and press next.

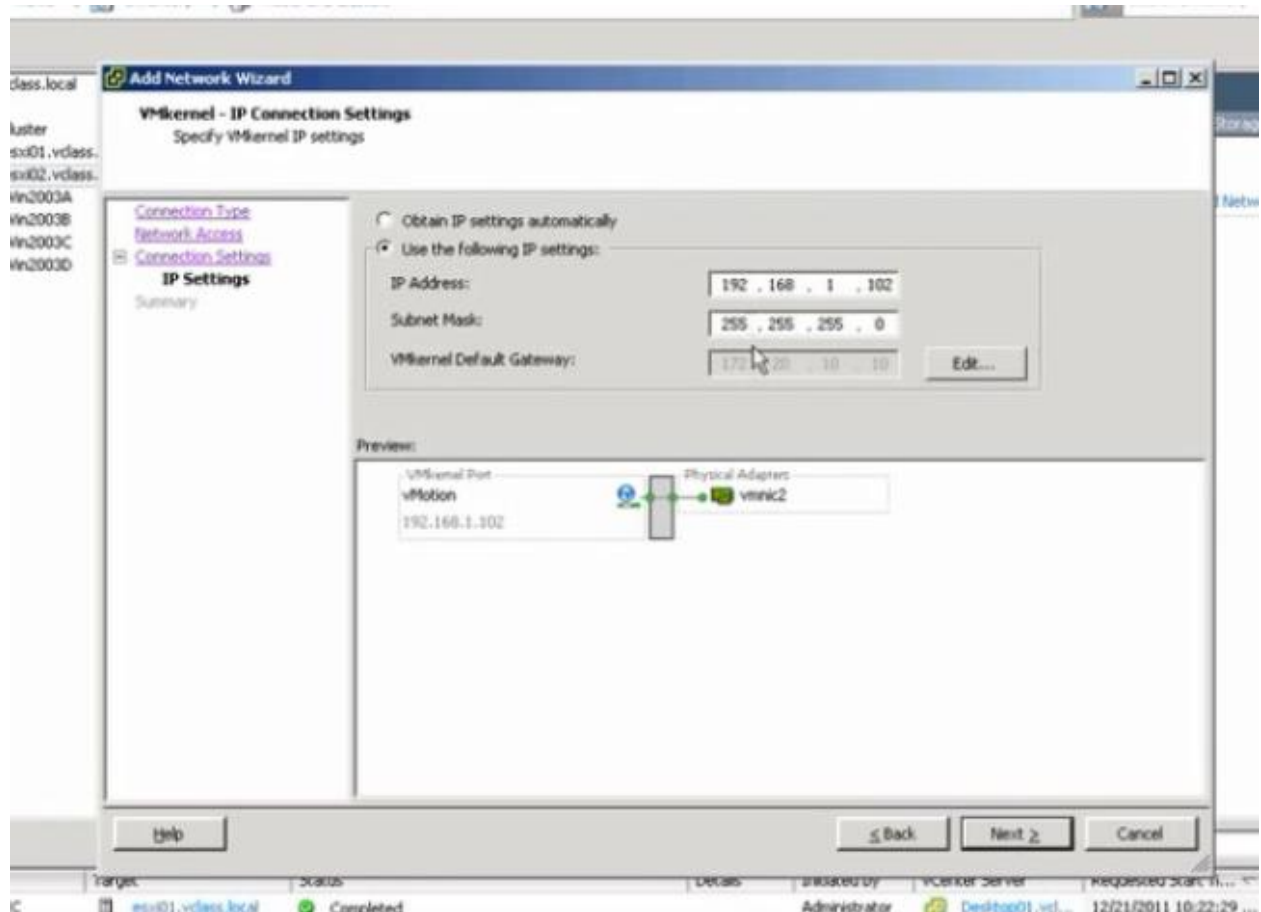8 . Specify the IP address (198.168.1.101)and the subnet mask. and then click next.
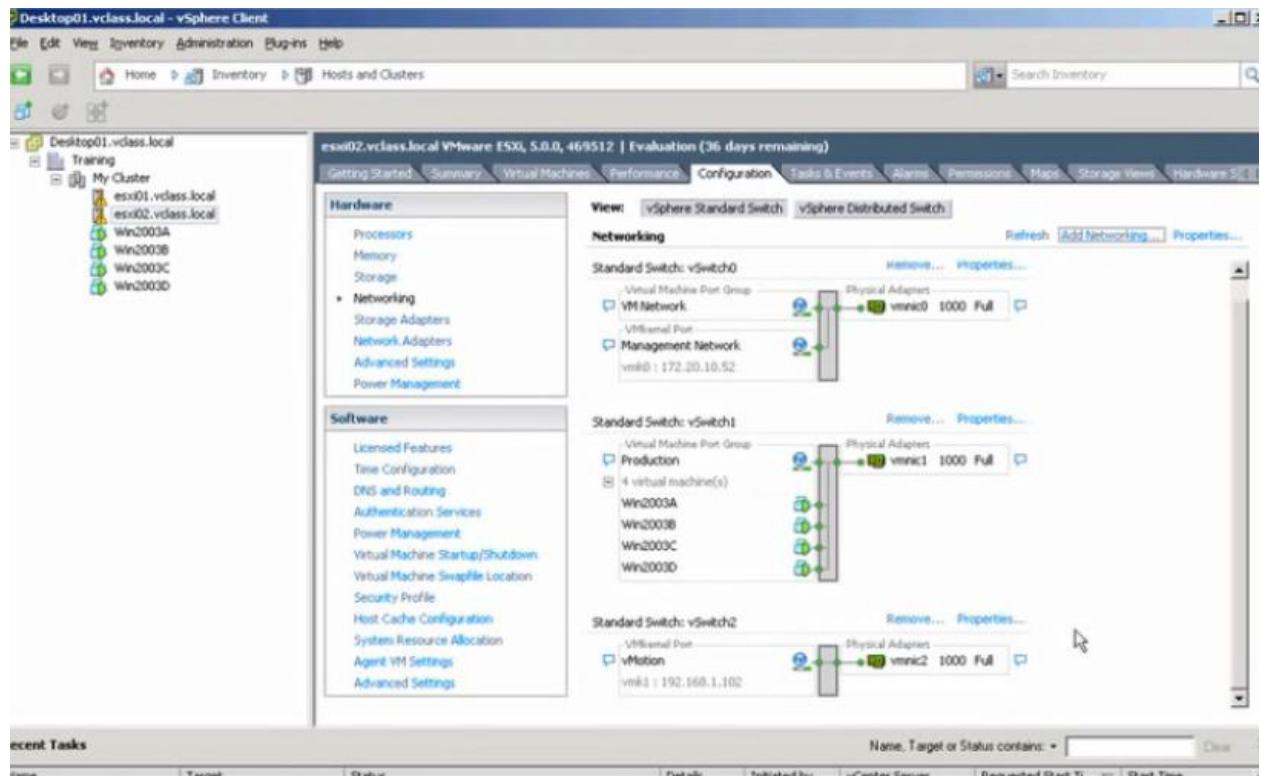

9 . Click finish

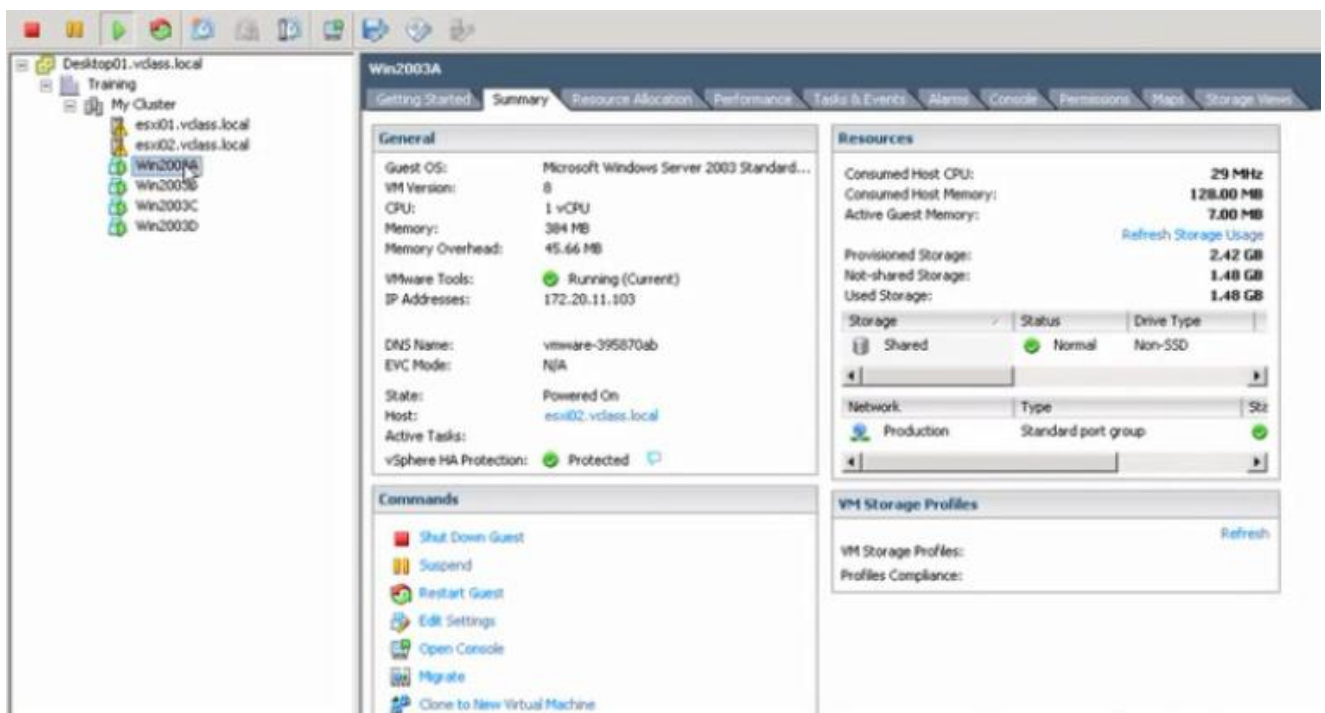10. Then again do the same configurations to the second host
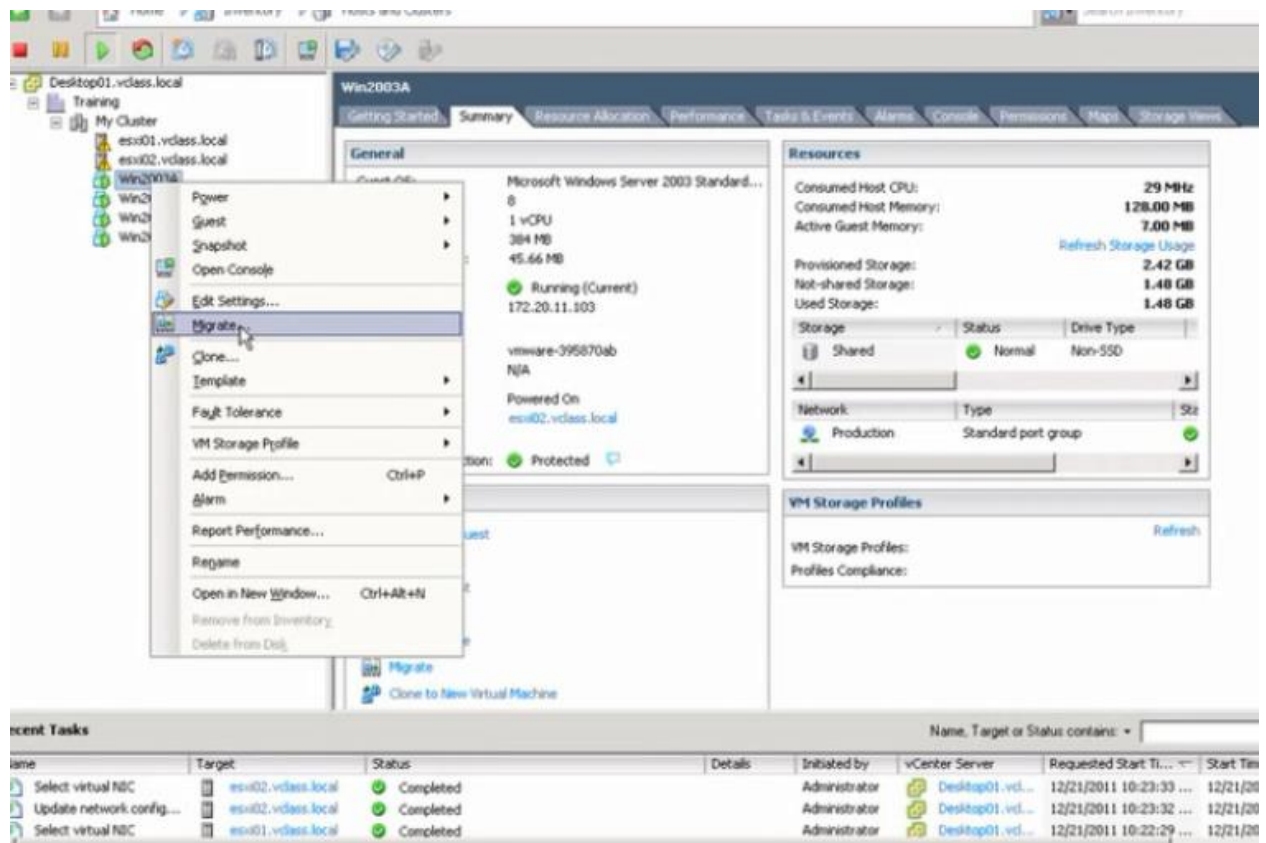

11. just change the IP address to 192.168.1.102

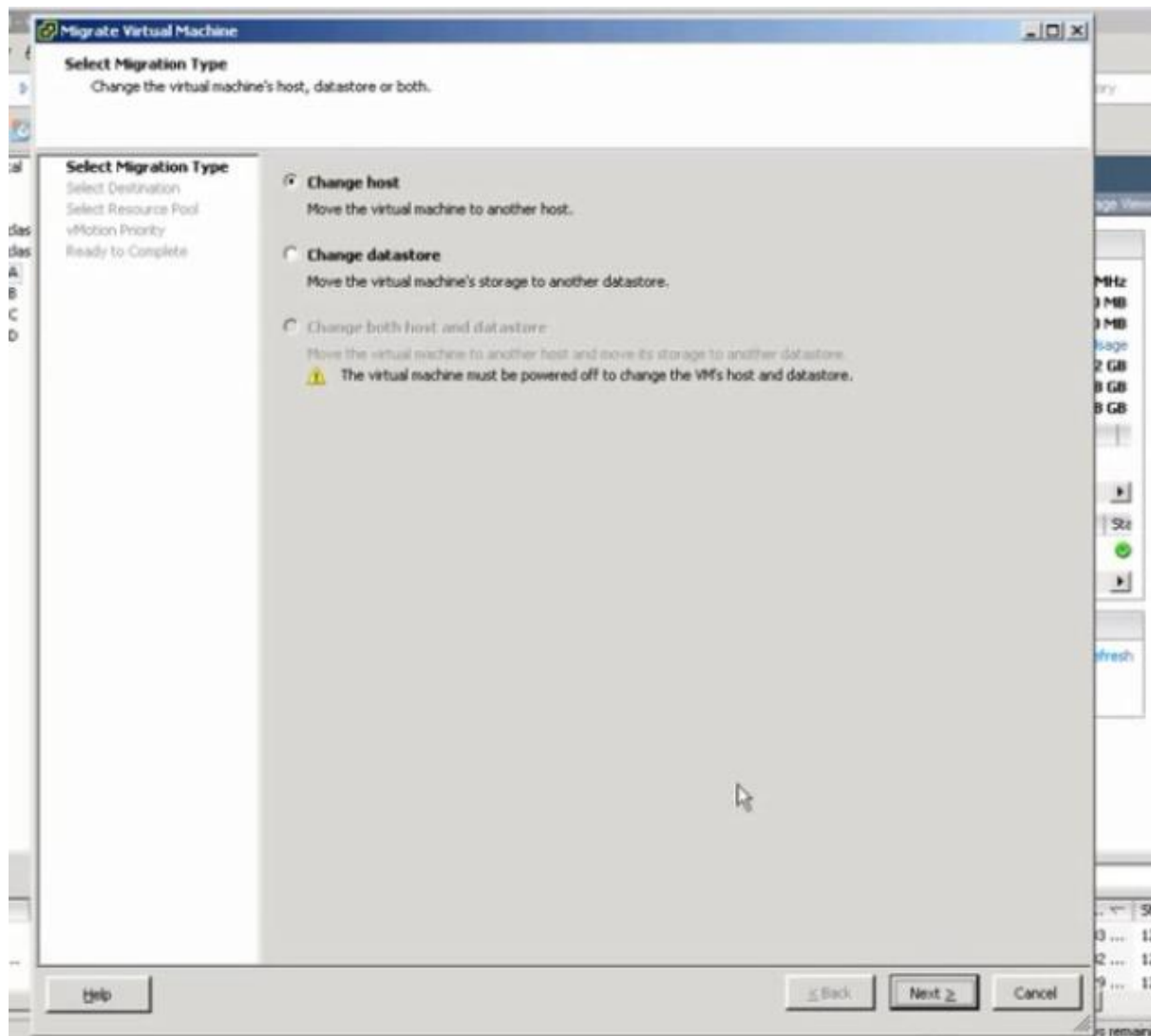12. Virtual switch is created below for the 2nd host

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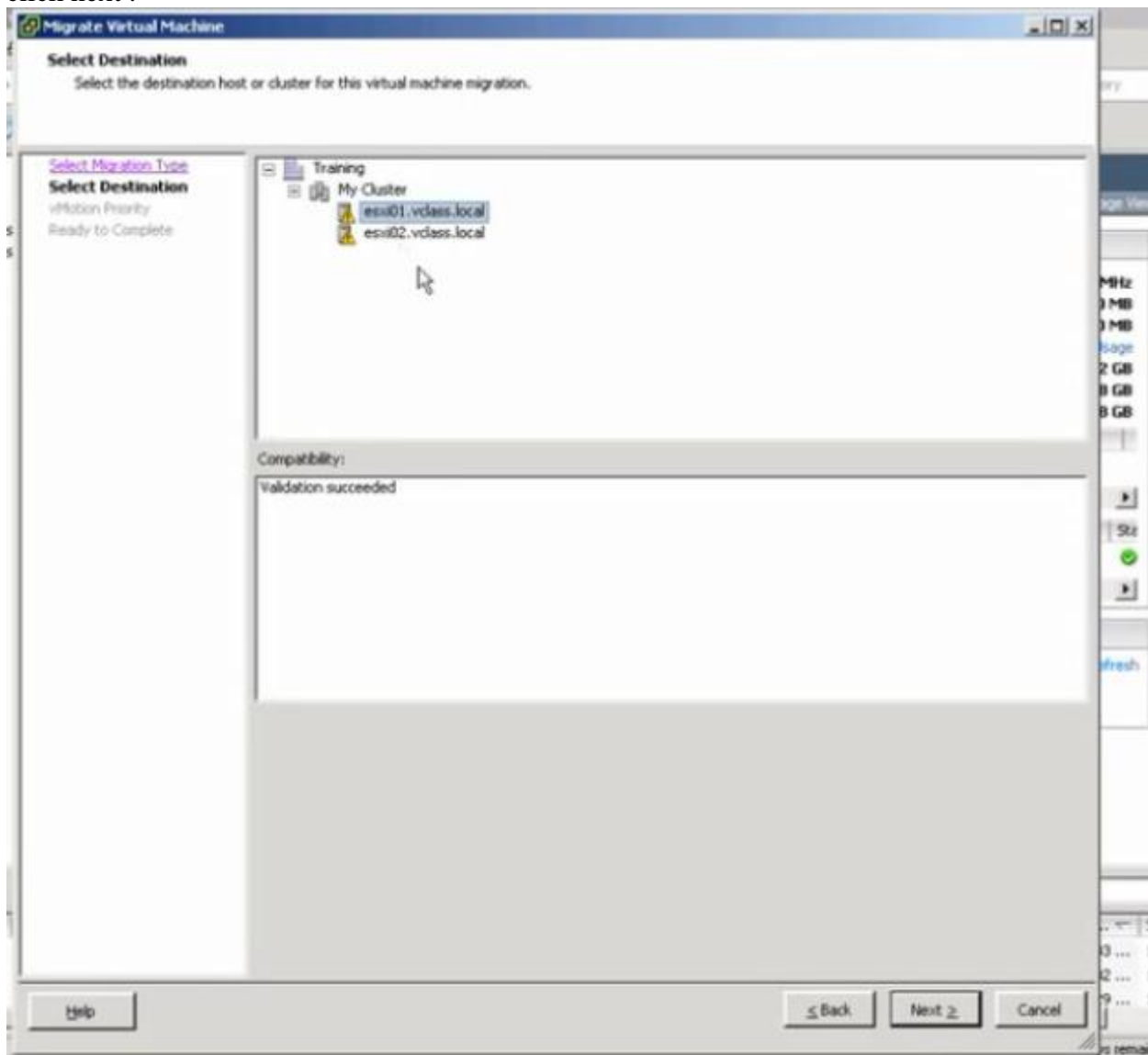
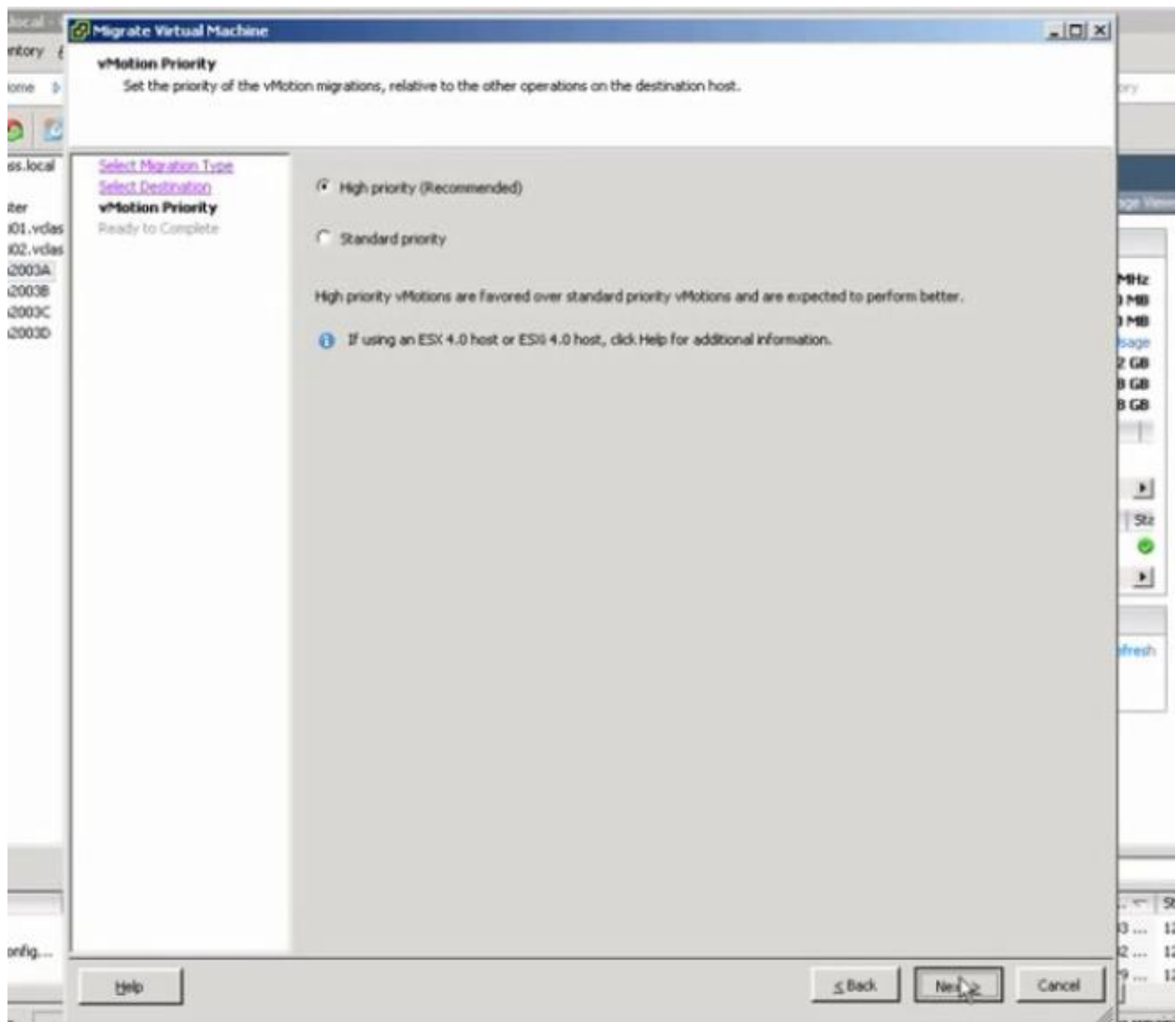14. right click on the virtual machine and click migrate
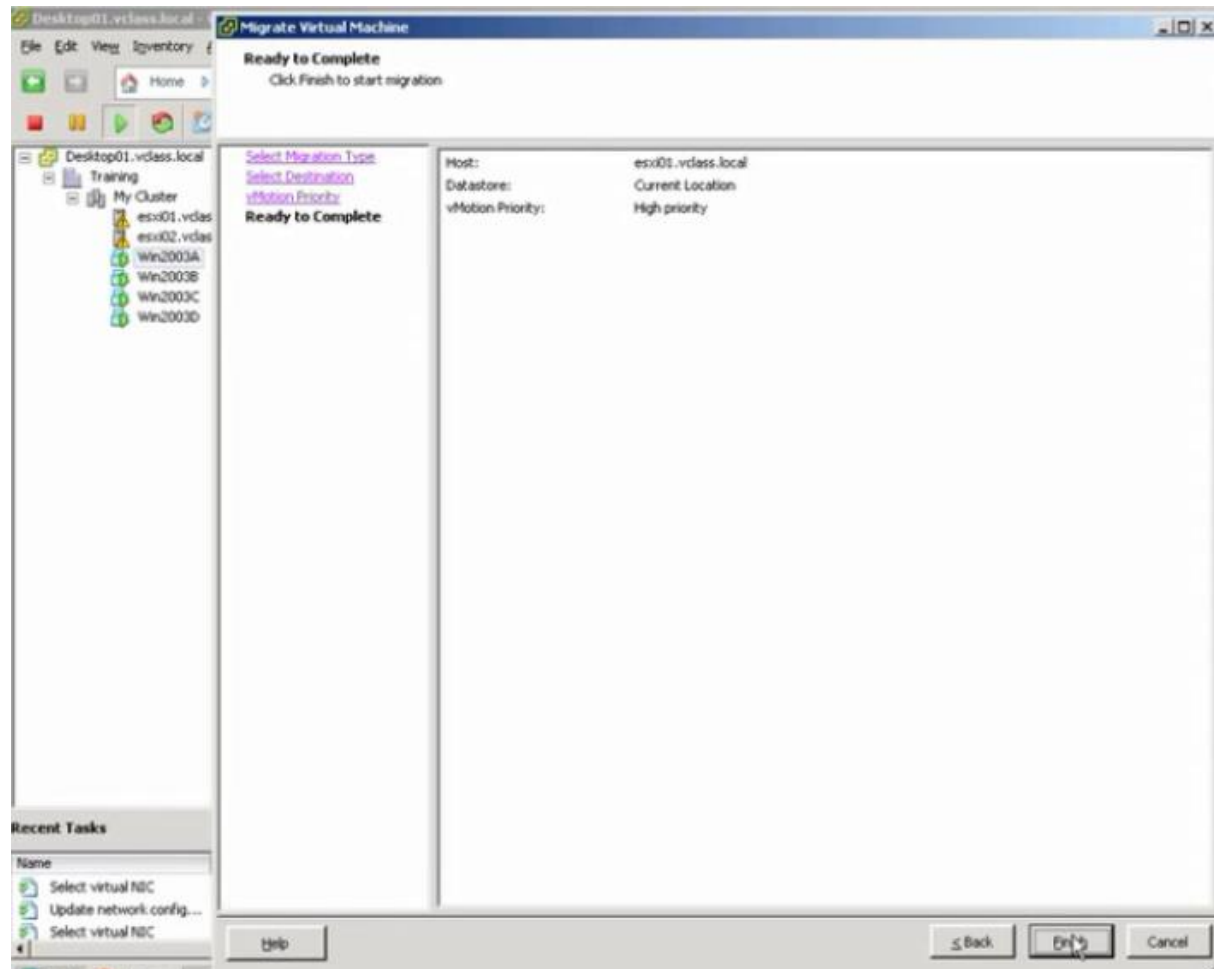

15 .select change host and click next

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.