ADVANCED COMPUTER NETWORK

PRACTICAL NO 5

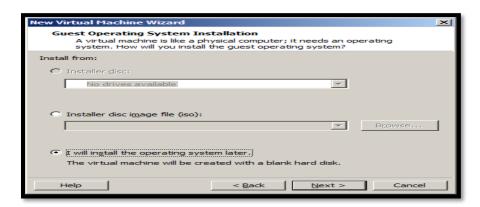
027_Abhishek_Ojha

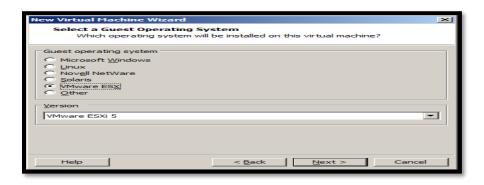
Practical No 5

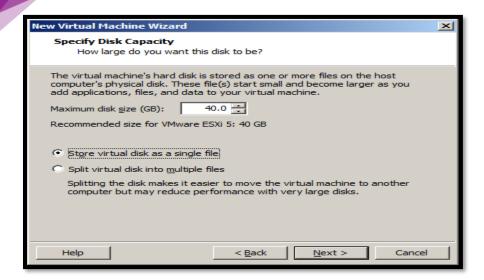
Aim: Create virtual PC based network using virtualization software and virtual NIC

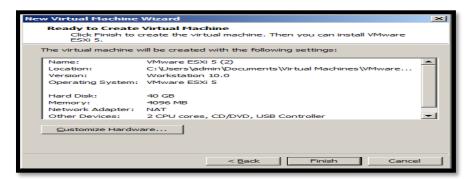
Virtual Machine Installation



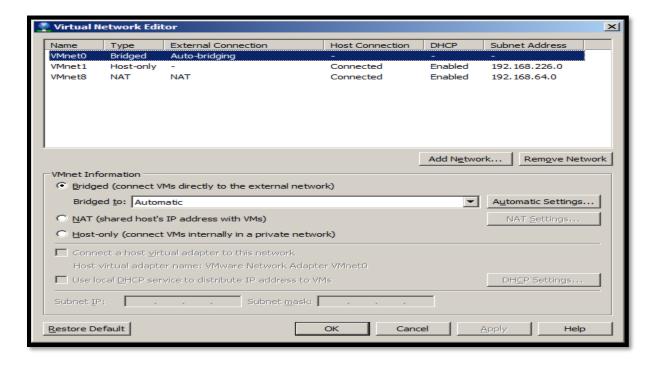


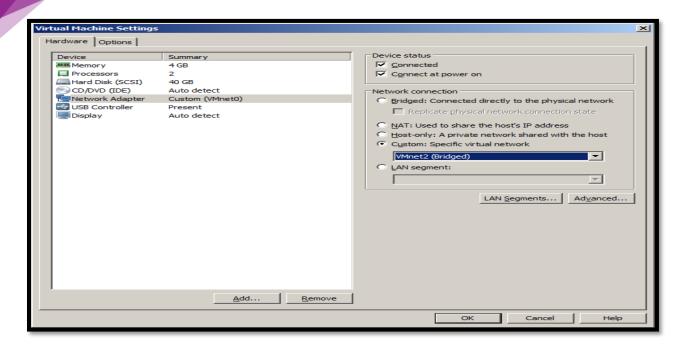






Bridged Connection Delivery:





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Microsoft Windows [Uersion 6.1.7601]
Copyright (c) 2009 Microsoft Corporation. All rights reserved.

C:\Users\admin\ipconfig

Windows IP Configuration

Ethernet adapter Local Area Connection:

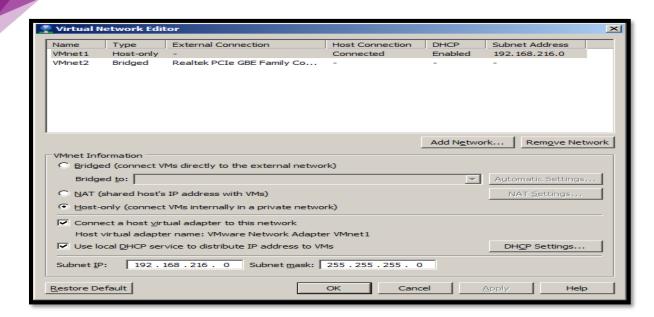
Connection-specific DNS Suffix .:
Link-local IPv6 Address ....: fe80::902c:ffa:2d5f:8cf7%11
IPv4 Address ....: 172.13.24.86
Subnet Mask ....: 255.255.00
Default Gateway ....: 172.13.24.1

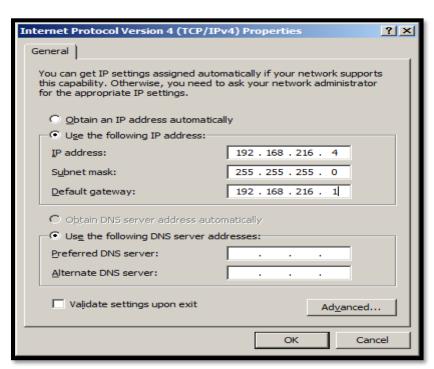
Ethernet adapter UMware Network Adapter UMnet1:

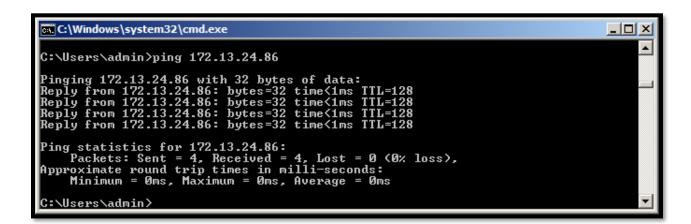
Connection-specific DNS Suffix .:
Link-local IPv6 Address ....: fe80::bd89:64ef:9d4d:be13%21
IPv4 Address ....: 192.168.216.1
Subnet Mask ....: 255.255.255.0
Default Gateway ...:

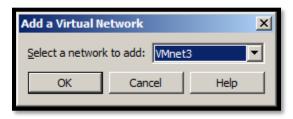
Tunnel adapter isatap.<FCE4E178-6B8A-4C90-934C-1517E9714DFE>:
```

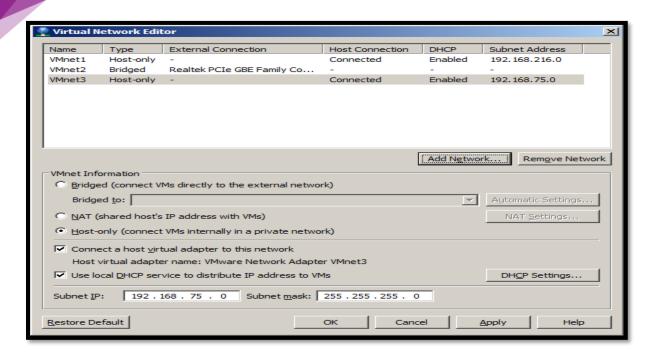
Host - Host Connection Delivery:

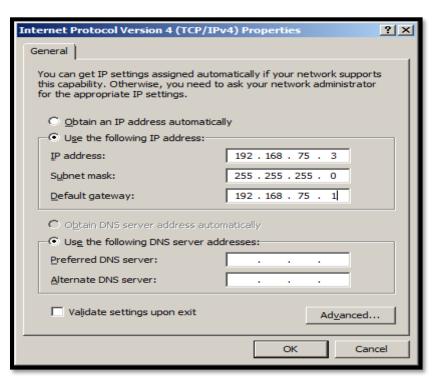


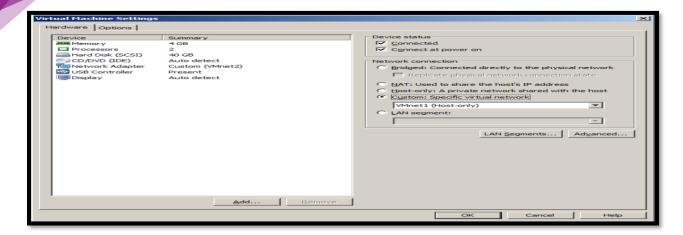












```
C:\Windows\system32\cmd.exe

Ethernet adapter UMware Network Adapter UMnet1:

Connection-specific DNS Suffix :
    Link-local IPv6 Address : : fe80::bd89:64ef:9d4d:be13%21
    IPv4 Address : : 192.168.216.1
    Subnet Mask : : 255.255.255.0
    IPv4 Address : : 192.168.216.4
    Subnet Mask : : 255.255.255.0
    Default Gateway : : 0.0.0.0
```

```
C:\Users\admin>ping 192.168.216.4

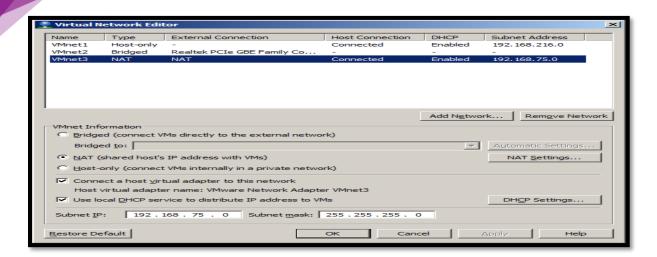
Pinging 192.168.216.4 with 32 bytes of data:
Reply from 192.168.216.4: bytes=32 time<1ms TTL=128

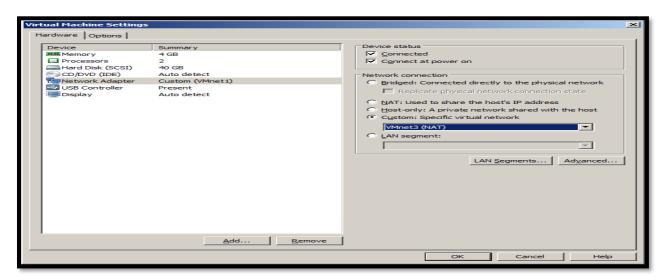
Ping statistics for 192.168.216.4:

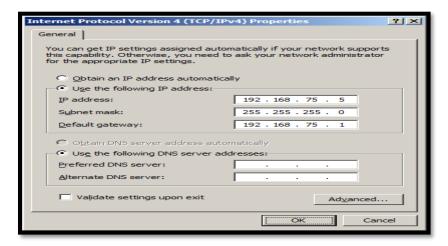
Packets: Sent = 4, Received = 4, Lost = 0 (0% loss),
Approximate round trip times in milli-seconds:
Minimum = 0ms, Maximum = 0ms, Average = 0ms

C:\Users\admin>
```

NAT Connection Delivery:







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Ethernet adapter UMware Network Adapter UMnet3:

Connection-specific DNS Suffix :
    Link-local IPv6 Address . . . : fe80::d989:d2a6:c971:c7ddx23
    IPv4 Address . . . . : 192.168.75.5
    Subnet Mask . . . . . : 255.255.255.0
    Default Gateway . . . : 192.168.75.1

Tunnel adapter isatap.⟨FCE4E178-6B8A-4C90-934C-1517E9714DFE⟩:
```

```
C:\Users\admin>ping 192.168.75.5

Pinging 192.168.75.5 with 32 bytes of data:
Reply from 192.168.75.5: bytes=32 time<1ms TTL=128

Ping statistics for 192.168.75.5:

Packets: Sent = 4, Received = 4, Lost = 0 (0% loss),
Approximate round trip times in milli-seconds:

Minimum = 0ms, Maximum = 0ms, Average = 0ms

C:\Users\admin>
```