

# Network Configuration for VMware Fusion 3

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## About This Document

Novell Demo Systems Network Configuration for VMware Fusion 3 on Mac OSX Snow Leopard.

VMware Fusion does not have the ability to add additional network interfaces via a GUI. All demos that Novell Demo Systems ship use a bespoke network configuration so as to leave the default networking untouched, for any other demos the user may have.

The following will detail how to add the Novell Demo Systems default network adapter to VMware Fusion 3.

All commands are run from a terminal and will remain configured unless Fusion is reinstalled or reconfigured.

## How to

Open a terminal

- `/Applications/Utilities/Terminal`

Stop Fusion

- `sudo "/Library/Application Support/VMware Fusion/boot.sh" --stop`

Modify Fusion's network configuration and add the settings for the new network adapter. Add the **Bold** sections. Note you will be warned that this file is read-only. Make sure you save using `w!`

- `sudo cp "/Library/Application Support/VMware Fusion/networking" "/Library/Application Support/VMware Fusion/networking.bakup"`
- `sudo vi "/Library/Application Support/VMware Fusion/networking"`

```
answer VNET_1_HOSTONLY_NETMASK 255.255.255.0
answer VNET_1_HOSTONLY_SUBNET 172.16.130.0
answer VNET_1_VIRTUAL_ADAPTER yes
answer VNET_5_DHCP yes
answer VNET_5_HOSTONLY_NETMASK 255.255.255.0
answer VNET_5_HOSTONLY_SUBNET 172.17.2.0
answer VNET_5_NAT yes
answer VNET_5_VIRTUAL_ADAPTER yes
answer VNET_8_DHCP yes
answer VNET_8_DHCP_CFG_HASH A06F544138530491C58E2DC2E57DE2E036392486
answer VNET_8_HOSTONLY_NETMASK 255.255.255.0
answer VNET_8_HOSTONLY_SUBNET 192.168.235.0
answer VNET_8_NAT yes
answer VNET_8_VIRTUAL_ADAPTER yes
```

Now we need to create the new adapter. The easiest way is to copy the existing NAT adapter

- `sudo cp -R "/Library/Application Support/VMware Fusion/vmnet8" "/Library/Application Support/VMware Fusion/vmnet5"`

Time to fix up the NAT configuration. Change the **Bold** sections. Note you will be warned that this file is readonly. Make sure you save using `w!`

- `sudo vi "/Library/Application Support/VMware Fusion/vmnet5/nat.conf"`

```
# Linux NAT configuration file
[host]
# NAT gateway address
ip = 172.17.2.2
netmask = 255.255.255.0
# VMnet device if not specified on command line
device = /dev/vmnet5
# Allow PORT/EPRT FTP commands (they need incoming TCP stream ...)
activeFTP = 1
# Allows the source to have any OUI. Turn this one if you change the OUI
# in the MAC address of your virtual machines.
allowAnyOUI = 1
[udp]
# Timeout in seconds, 0 = no timeout, default = 60; real value might
# be up to 100% longer
timeout = 60
[incomingudp]
[incomingtcp]
```

Nearly done, time to fix up the DHCP configuration. Change the Bold sections. Note you will be warned that this file is readonly. Make sure you save using w!

- `sudo vi "/Library/Application Support/VMware Fusion/vmnet5/dhcpd.conf"`

```
allow unknown-clients;
default-lease-time 1800; # default is 30 minutes
max-lease-time 7200; # default is 2 hours

subnet 172.17.2.0 netmask 255.255.255.0 {
range 172.17.2.199 172.17.2.254;
option broadcast-address 172.17.2.255;
option domain-name-servers 172.17.2.2;
option netbios-name-servers 172.17.2.2;
option domain-name "localdomain";
option routers 172.17.2.2;
default-lease-time 1800; # default is 30 minutes
max-lease-time 7200; # default is 2 hours
}
host vmnet5 {
hardware ethernet 00:50:56:c0:00:05;
fixed-address 172.17.2.1;
option domain-name-servers 0.0.0.0;
option domain-name "";
}
```

Now time to restart fusion

- `sudo "/Library/Application Support/VMware Fusion/boot.sh" --start`

Verify Fusion now has network adapter 5

- `sudo ifconfig vmnet5`

You should see

- ```
vmnet5: flags=8863<UP,BROADCAST,SMART,RUNNING,SIMPLEX,MULTICAST> mtu 1500
ether 00:50:56:c0:00:05
inet 172.17.2.1 netmask 0xfffff00 broadcast 172.17.2.255
```

## Get out of Jail

If everything blows up no problem run the following and the default configurations will be restored.

- `sudo rm -R "/Library/Application Support/VMware Fusion/vmnet5"`
- `sudo "/Library/Application Support/VMware Fusion/vmware-config-net.pl"`
- `sudo "/Library/Application Support/VMware Fusion/boot.sh" --restart`