

Re: simple networking question

Source:

<http://www.tech-archive.net/Archive/Windows/microsoft.public.windows.server.general/2008-05/msg01070.html>

- *From:* pete0085 <pete0085@xxxxxxxxxxxxxxxxxxxxxxxxxxxxxx>
 - *Date:* Wed, 21 May 2008 08:03:03 -0700
-

I checked this before. I enabled icmp echo request to verify nothing is being blocked.

What else should I try? I'm completely lost. I've set up a network for my company so why can't I network two pcs together??

This doesn't make any sense.

"JohnB" wrote:

Check, on all PC's and VPC's, that the Windows firewall is disabled. It may be enabled on the VPC's. That would be the cause of not being able to ping by IP address.

"pete0085" <pete0085@xxxxxxxxxxxxxxxxxxxxxxxxxxxxxx> wrote in message news:E8CAB5DD-2DC9-4D0F-A34F-D3FE3FE307DD@xxxxxxxxxxxxxxxxxxxx

Well the problem is I can't even ping by IP address, that's my first concern.

I have two virtual servers. One with the ip aod 10.0.0.1, the other with 10.0.0.10, with no gateway.

I'm not sure why I can't even get them to ping, that's my first problem.

I

might try a hub from work, but I've done this before, and remember I had some

weird settings for my dns to get them to communicate. Like the dns wasn't the ip address of the server.

"JohnB" wrote:

Are you pinging by host name or IP address?

I'm guessing you can ping by IP but not host name.

Is DNS setup on the DC?

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If it isn't, what do you think is going to resolve the host name when you ping a host in your internal network?

Again, your problem is, Active Directory is DNS based. You MUST have DNS configured on your private network.

Another option for you – if your PC's have enough RAM – is to have your test environment all virtual. That is; turn off DHCP on your router. Set all computers to static IP... i.e. 192.168.1.x Set your 2 servers to static IP. Same subnet. And set your VPC's to be DHCP, that they get from the DC. That will work, but it depends on how much RAM you have on your PC's. You would be running 1 or 2, most likely 2.... VPC's from each PC. 512mb RAM might be too slow.

"pete0085" <pete0085@xxxxxxxxxxxxxxxxxxxxxxxxxxxx>
wrote in message
news:B4803CE7-F321-42FA-ABC2-73812543B31E@xxxxxxxxxxxxxxxxxxxx

I used your advice and stuck used 10.0.0.1 for the DC and 10.0.0.10 for the second server with a mask of 255.255.255.0. The dns on both is 10.0.0.1 with no gateway. I removed the dhcp from server 1.

Does it matter that I have one virtual machine on a pc and the second virtual pc installed on a laptop? Should I try to run them both on the same machine or doesn't it matter?

They still can't ping eachother. The network settings for virtual pc are set to local host. It's not necessary for the the other to join the

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domain,
only to be able to communicate.

The ipconfig /all is showing the correct settings for both.

"Bill Grant" wrote:

There are several major problems with that.

1. You cannot run DHCP on a server if you already have DHCP running on your NAT device. You will need to use static IP addresses for the second network. You can only run a second DHCP server if it is isolated from the physical network (such as running all vms in Local Only on the same host. This requires a host with enough memory to host several guests).

2. It is not a good idea to join host machines to a domain when the DC is running on a vm. (Incidentally, vm is just an abbreviation for virtual machine. It does not imply that you are using any particular sort of virtualization). The DC may not be running when the host starts up and the PC will have trouble logging on.

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3. You should not really use 198.213.30.x as that is a registered public network. 192.168.30.0/24 is fine, and should be different from your LAN.

In case you are not familiar with that format, 192.168.30.0/24 represents a subnet with a 24-bit subnet and is equivalent to 192.168.30.0 netmask 255.255.255.0 (It should not really matter that you are using a public set of IPs if you never connect this network to the internet).

The first thing you need to check in networking is that the machines you are trying to network are actually in the same IP subnet. Do an ipconfig on both vms and check that they are. If you cannot ping from one to another, check that the firewalls are not blocking ICMP echo (which is what ping uses).

"pete0085"

<pete0085@xxxxxxxxxxxxxxxxxxxxxxxxxxxx>

wrote in message

news:AE0659F8-91F1-4ACD-8733-D5EFEF4A2C5B@xxxxxxxxxxxxxxxxxxxx

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In the past I was able to somehow get it to work, but I added one of my physical pcs to the domain. That would work as well, they would be connected together.

I'm not using VM, using virtual pc 2007. Not sure how similar they are.

My linksys router is on the 192.168.x.x network. On the DC, I created the network of 198.213.30.1, used the .1 as my dns. Created a dhcp scope on the DC.

On the client pc, set to obtain address automatically

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and set the
dns
at
the
30.1
address.

I cannot
ping from
either pc or
add it to the
domain.

Don't
understand
why,
I was able
to do this
before
running
virtual pc.

"Bill Grant"
wrote:

It
really
depends
on
what
you
want
to
do.
If
you
set
the
NIC
in
a
vm
to
link
to
the
network
through
the
physical
NIC

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in
the
host,
it
looks
just
like
another
machine
on
the
network
(from
a
networking
point
of
view).
So
you
effectively
have
four
machines
on
the
network,
two
hosts
and
two
guests.

If
the
servers
are
set
to
get
an
IP
automatically
they
should
get
their
network
config
from
DHCP

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on
your
Linksys
and
be
able
to
see
each
other,
the
hosts
and
the
Internet.

If
you
want
to
experiment
with
Active
Directory,
this
is
not
the
way
to
do
it
(with
virtual
or
hard
metal
machines).
Active
Directory
does
not
work
well
with
the
DHCP
or
DNS
of
a

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simple
NAT
setup
as
above.

If
you
don't
need
Internet
access
you
can
run
your
domain
on
the
same
network
using
a
different
IP
subnet.
(This
is
called
a
logical
subnet
which
shares
the
underlying
"wire").
If
your
LAN
is
using
say
10.1.1.x
addresses,
use
192.168..x.x
addresses
for
your
logical

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subnet.
Set
your
DC
to
say
192.168.31.1/24
.
Run
dcpromo
and
allow
it
to
configure
DNS
for
you.
When
AD
is
installed,
set
the
second
server
to
192.168.31.2/24
using
192.168.31.1
for
DNS.
You
don't
need
a
default
gateway
if
you
don't
need
access
to
any
other
network.
You
now
have
two

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logical
networks
running
on
the
same
segment.

The
machines
on
your
physical
LAN
will
not
be
aware
of
your
virtual
machines
and
vice
versa.
They
would
only
see
each
other
if
you
installed
a
router
to
route
between
the
subnets.

"pete0085"
<pete0085@xxxxxxxxxxxxxxxxxxxxxxxxxxxx>
wrote
in
message
news:D933C22D-0D12-44C6-B1A5-F581D92F859E@xxx

Hopefully
this

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isn't
a
"dumb"
question.
I'm
setting
up
a
lab
at
home
to
work
on
my
291
exam.
I
am
running
server
2003
on
virtual
pc
installed
on
two
different
pcs.
I
need
the
two
to
be
able
to
communicate.

I
attempted
to
use
my
liksys
router
and
had
them
both

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hooked
up
to
the
router,
using
the
same
gateway.
They
were
not
able
to
communicate
(ping).
I
don't
believe
its
necessary
to
get
out
to
the
internet.

Would
I
need
to
use
a
hub
instead
and
plug
them
both
into
a
small
hub?
Sorry
if
this
is
too
easy
of

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a
question.
Neither
of
the
virtual
pcs
are
set
up
as
a
DC.