

Re: Urgent! New router and big disaster

Source:

<http://www.tech-archive.net/Archive/Windows/microsoft.public.windows.server.sbs/2006-03/msg01639.html>

- *From:* "Gregg Hill" <bogus@xxxxxxxxxxxx>
 - *Date:* Tue, 7 Mar 2006 23:55:41 -0800
-

C_O,

Even a single-NIC configuration should have ONLY the LAN IP of the server as its DNS entry. Then you can run the CEICW or use the DNS console to enter the forwarders, if desired. DNS forwarders are not required to be there, since root hints will be used if the DNS forwarders do not exist. You just need to be sure there is not "dot" root hint listed.

Gregg Hill

"CO-DBA-SC-EL" <dx6490@xxxxxxxx> wrote in message
news:uB6J98aQGHA.2012@xxxxxxxxxxxxxxxxxxxxxxxxxxxx

Hey, I don't get DNS errors. And I'm running single NIC config. Natch.
<grin>

C_O

"SuperGumby [SBS MVP]" <not@xxxxxxxx> wrote in message
news:OW5zv1YQGHA.2496@xxxxxxxxxxxxxxxxxxxxxxxxxxxx

sorry, very re-active.

Both NICs should point to his internal IP for DNS. ie. the NIC properties of all members of an Active Directory, even multihomed devices such as this server and my workstation, should point only to an AD integrated DNS server for name resolution, the AD integrated DNS server will then satisfy queries outside the AD by the use of either 'forwarders' or 'root hints'.

If 'CO-DBA-SC-EL' has configured external DNS servers on SBS systems it probably explains some of the wierd errors he sometimes asks of the group.

"SuperGumby [SBS MVP]" <not@xxxxxxxx> wrote in message

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news:uruAJuYOGHA.3460@xxxxxxxxxxxxxxxxxxxxxxxxxxxx

NONONONONONO

Both NICs should point to his internal IP. The SBS DNS server, running on the internal IP, will then satisfy external requests via either forwarders or 'root hints'.

C'mon, we're getting close. Don't spoil it.

"CO-DBA-SC-EL" <dx6490@xxxxxxxx> wrote in message

news:%23BUq2VYOGHA.5592@xxxxxxxxxxxxxxxxxxxxxxxxxxxx

You're getting close. Since you can reach an external web site by using its IP it means that your problem is now DNS. I don't see how your settings could work. In the TCP/IP properties for the external NIC, you need to specify an external DNS server for DNS, instead of the server's own IP address. You should do that in the CEICW, that way it will set up the DNS forwarding to work correctly. When the CEICW asks you for the configuration for the external NIC, use:
IP Address 192.168.0.99 (See Note 1)
Subnet Mask : 255.255.255.0
Default Gateway: 192.168.0.1
DNS Servers: 192.168.0.1 (See Note 2)

Note 1. 192.168.0.100 looks like an address in the DHCP range of the router. You should give your SBS a fixed external address so you can forward ports to it reliably in the router. I don't have the D-Link doc but x.x.x.99 should be outside its DHCP range. If not pick another one. Why do that if the SBS is the only computer connected to the router? Because some day you might try to debug something else, plug a computer in the router while the SBS is off or disconnected, then plug the SBS back in and discover that the other computer has now been given the address you thought was the SBS's own.

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Then of course RWW and all those goodies quit working. Play it safe. Use a fixed address outside the DHCP range of the router.

Note 2. Normally the router will forward DNS requests. You may be able to speed things up by specifying the IP address of your ISP's DNS servers instead of the router -- the router will just pass that through instead of actively forwarding.

C_O

"Kimmy"

<Kimmy@xxxxxxxxxxxxxxxxxxxxxxxxxxxx>

wrote in message

news:C56EA7C3-EAE0-4D4F-9BBB-DFA8FBB9DC11@xxxxxxxxxxxxxxxxxxxx

I checked the binding order and the Server Local area connection is at the top.

I should have been more clear about internet connection..
- when we open internet explorer the company web is shown, when we type in an address...
<http://www.google.ca>, we get page cannot be displayed.
But
if I
type the ip address
65.98.45.220 the webpage loads. (this is true for
Both
the SBS and client stations)
I just read somewhere in another posting about nslookup.exe, and thought I would give it a try. I got this..
***Can't find server name for address 192.168.16.2:
Non-existent
domain

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Default Server: Unknown
Address: 192.168.16.2
(I found that in the DNS –
clicked my server name and
ran the lookup
tool)

"Merv Porter [SBS-MVP]"
wrote:

However,
when
I
checked
the
binding
on
the
external
nic
there
was
no
TCP/IP
in
the
list,
just
File
and
Printer
Sharing
and
the
Microsoft
Client
Networks
were
the
only
two
in
the
list
and
neither
of
them

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are
checked
off.

Check
Binding
order

Right click
My
Network
Places...Properties.
Highlight
the Internal
NIC. Then
select
Advanced...Advanced
Settings
from the top
menu for
that
window.
This
will check
the
bindings.

The Internal
NIC should
be
displayed
first
followed by
the External
NIC. If
not, move
the Internal
NIC to the
top of the
list.

The Internal
NIC should
have File
and Printer
Sharing
bound
(checkmarked)
to
the TCP/IP
Protocol.

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The Internal
NIC should
have Client
for
Microsoft
Networks
bound
(checked)
to the
TCP/IP
Protocol.

Is the
Internal
NIC at the
top of the
list?

After
running
the
internet
connection
wizard,
no
internet
was
available
for
either
the
SBS
or
the
Client
by
using
the
test
page
www.dnslookup.com,
but
each
can
view
65.98.45.220.

What is

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65.98.45.220?
If neother
SBS server
nor client
workstation
had
Internet
access, how
could they
view
anything at
this public
(Internet) IP
address?

--
Merv Porter
[SBS MVP]

=====
"Kimmy"
<Kimmy@xxxxxxxxxxxxxxxxxxxxxxxxxxxx>
wrote in
message
news:41894A1D-D2B3-49C0-AB14-AD2D5EA865E8@xxxxxxxx

Been
having
a
a
lot
of
trouble.
The
original
router
died
and
now
we
are
using
a
D-Link
604.
My
problem
is
this:

1

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-I
have
the
set
up
done
just
like
this...

<http://www.smallbizserver.net/Default.aspx?tabid=266&articleid=266>

However,
when
I
checked
the
binding
on
the
external
nic
there
was
no
TCP/IP
in
the
list,
just
File
and
Printer
Sharing
and
the
Microsoft
Client
Networks
were
the
only
two
in
the
list
and
neither
of
them
are

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checked
off.
After
running
the
internet
connection
wizard,
no
internet
was
available
for
either
the
SBS
or
the
Client
by
using
the
test
page
www.dnslookup.com,
but
each
can
view
65.98.45.220.

The
Current
ipconfig/all
from
server
is
this
Server
Local
Area
Connection:
Connection-specific
DNS
Suffix:
Description:
Intel
Pro/1000
Physical
Address:
00-14-22-B4_12-CE

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DHCP
Enabled
:
NO
IP
Address
192.168.16.2
Subnet
Mask
:
255.255.255.0
Default
Gateway:
DNS
Servers:
192.168.16.2
Primary
Wins
Server
192.168.16.2

Ethernet
Network
Connection

Connection-specific
DNS
Suffix:
Description:
BroadCom
NetXtream
Physical
Address:
00-10-18-18-31-C2
DHCP
Enabled
:
NO
IP
Address
192.168.0.100
Subnet
Mask
:
255.255.255.0
Default
Gateway:
192.168.0.1
DNS
Servers:
192.168.16.2

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NetBios
Over
TCPIP:
Disabled
Any
ideas?

Other
info...
Before
I
ran
the
internet
connection
wizard,
I
also
disabled
the
UPNP
on
the
router
itself.
I
have
checked
the
DNS
Service
and
it
is
running,
also
is
the
DCHP
Service.
I
wonder
if
I
may
have
missed
a
firewall
setting
on

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the
router
as
well.

"CO-DBA-SC-EL"
wrote:

Hmmm.
In
a
2-NIC
setup
changing
the
router
(which
feeds
the
WAN
side
of
the
SBS)
should
have
nothing
to
do
with
the
inability
of
the
clients
to
login
to
the
domain.
Completely
separate
networks.
The
IPconfig
for
the
client
shows

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that
the
client
is
not
able
to
get
an
address
from
the
DHCP
server
on
the
SBS.

Now,
a
problem
could
occur
if
the
physical
net
was
configured
to
use
the
router's
LAN
switch
to
connect
the
workstations
(both
SBS
NICs
into
the
same
switch)
which
in
theory
should
work

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but
is
of
course
a
very
bad
practice.
If
that
is
the
problem,
try
to
fix
that,
using
the
diagram
in
the
SBS
documentation
(such
as
it
is...).
Assuming
that
this
is
not
the
problem...

First
check
whether
the
DHCP
service
is
running.
If
it
is
not,
start
it,
then

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try
to
figure
out
why
it
did
not
start
in
the
first
place.

If
that
does
not
fix
the
problem,
go
through
the
following
steps:

1.
Verify
that
the
workstations
can
physically
connect
to
the
LAN
side
of
the
SBS.
Since
it
looks
like
the
workstations
are
set
up

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to
use
DHCP,
a
quick
and
dirty
way
to
do
that
would
be
(a)
disconnect
everything
from
the
router
then
(b)
to
move
the
cable
from
the
LAN
side
NIC
of
the
SBS
to
a
LAN
port
on
the
router
then
(c)
turn
on
the
router,
give
it
time
to
boot

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and
do
an
ipconfig
-reset
on
a
workstation
then
check
whether
it
got
an
IP
address
from
the
router
and
that
it
can
ping
the
router.
If
that
doesn't
work,
first
do
a
deep
reset
of
the
router
and
try
again.
If
after
that
it
still
does
not
work,
look
for

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a
bad
cable
or
bad
switch
in
the
LAN
or
some
other
LAN
config
problem.
2.
Assuming
that
step
1
is
fixed,
take
this
opportunity
to
log
into
the
router
and
verify
that
it
is
set
up
correctly.
It
should
have
DHCP
turned
on
and
have
its
WAN
side
configured
properly,

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including
the
ISP
DNS
and
gateway
addresses
if
the
WAN
side
of
the
router
is
not
using
DHCP.
Don't
bother
with
port
forwarding
yet.
Making
sure
that
the
firewall
on
the
workstation
is
enabled
(or
using
a
test
laptop
instead
of
the
workstation),
connect
the
WAN
side
of
the
router
and

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check
that
the
workstation
can
connect
to
the
Internet.
If
that
works,
then
the
router
should
not
be
a
problem
and
you
can
focus
on
the
SBS.
If
that
doesn't
work,
pretend
that
the
router
is
working
for
the
purpose
of
step
3,
but
you
will
need
a
router...
3.
With

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all
physical
connections
correct
(as
in
the
SBS
documentation
diagram
for
2-NIC
setup
with
a
router),
run
the
CEICW.
Use
the
vanilla
settings.
While
you
are
at
it,
set
up
a
LAN
side
address
of
192.168.x.2
for
your
SBS,
where
x
is
anything
except
0,
1,
2
or
13.
This
will

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allow
you
to
substitute
any
router
(at
least
from
the
brands
I've
tried)
without
having
to
worry
about
subnet
conflict
between
the
WAN
and
LAN
side.
When
it
comes
to
router
UPNP
say
that
your
router
is
not
UPNP,
and
look
up
the
"More
Info"
that
tells
you
which
ports
you

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will
need
to
forward
on
the
router.
Port
forwarding
on
your
perimeter
device
is
something
you
probably
want
to
be
able
to
control
yourself.
Also,
if
you
control
port
forwarding
on
the
router
yourself,
you
can
replace
the
router
at
will
without
ever
needing
to
change
anything
in
the
SBS
configuration.

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4.
Check
the
Services
to
verify
that
the
DHCP
service
is
running.
Go
to
a
workstation
and
verify
that
it
can
get
an
IP
address
through
DHCP
and
that
you
can
ping
the
SBS—it
should
show
up
as
the
gateway
and
DNS
server
in
the
IPconfig
for
the
workstation.
If
this

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doesn't
work,
then
you
have
a
more
serious
problem
with
your
SBS.
Call
for
help.
5.
If
steps
1
to
4
succeeded,
then
try
to
king
a
known
good
test
address
(e.g.
www.dnsreports.com)
on
the
Internet
from
a
workstation.
If
that
doesn't
work
(not
found),
try
to
ping
a
known
IP

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address
(e.g.
65.98.45.220).
If
that
works
but
pinging
by
name
did
not
work,
you
have
a
DNS
problem.
Check
that
the
DNS
configuration
in
the
CEICW
is
correct.
If
you
had
made
manual
modifications
to
the
SBS
DNS
settings,
go
back
to
your
setup
nodes
and
try
to
undo
them
before

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one
that
died.
Post
output
of
"ipconfig
/all"
from
server
and
one
workstation
connected
to
24
port
switch.
Should
be
able
to
give
you
simple
instructions
to
get
back
to
where
you
where
before
this
incident.

--
Jan
Wakulicz
www.micropol.com.au

"Kimmy"
<Kimmy@xxxxxxxxxxxxxxxxxxxxxxxxxxxx>
wrote
in
message
news:C85BE8C6-2E8A-4DC6-AB7A-11C

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quick
brief
on
original
setup
Dell
Power
1800
server
running
SBS2003
standard
with
2
nics
1
D-link
8
port
router
&
1-
24
port
switch
D-link
connected
to
ISP
with
a
static
ip
and
server-
onboard
nic
connected
to
switch.
Original
install
went
off
with
out
a
hitch
including
all
updates

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ect.
For
a
week
clients
could
communicate
with
server.

Yesterday
the
router
dies,
and
I
quickly
swapped
it
with
another
D-link
router
this
one
smaller
—only
a
four
port.
When
the
router
died,
other
than
no
internet
access,
the
client
machines
could
still
connect
to
server.
After
I
swaped
the

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router
everything
was
still
fine.

This
morning,
I
had
to
go
clean
up
my
network
room
and
wires.
During
this
I
shut
down
the
server,
and
removed
of
from
the
room.
It
was
down
for
about
5
hours.
Then
I
set
it
back
up,
all
the
same—
i
didn't
touch

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a
setting,
and
now
my
clients
can't
login.
The
administrator
can
log
in
client
machines,
release/renew
the
ip
address,
look
at
network
places,
see
the
server
but
cant
connect.
No
internet
access
either.

Okay
so
back
at
the
server
-no
internet
connection
but
can
see
the
internal
website.
The
external

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nic
is
set
to
auto
get
ip
from
router,
but
the
primary
dns
is
the
ip
address
of
the
local
nic.
When
I
change
that
to
the
ip
of
the
router
I
can
get
internet
on
the
server.
Ran
the
CEICW...
doh!
The
wizard
popped
up
with
that
the
router
is

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a
plug
in
play
and
it
wanted
to
configure
it.
Now
everything
is
so
totally
messed.
I
cant
get
any
clients
to
log
in
but
when
i
set
the
ip
on
the
external
nic
back
to
the
router
ip,
I
can
reach
the
remote
server
login
page
on
my
laptop.
I

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have
ran
the
change
server
ip
wizard,
but
nothing.

Please
I
need
to
have
this
whole
thing
back
up
and
running
by
Mon.
morning,
so
please
give
very
deatiled
instructions
if
ya
got
them.
I
have
been
going
on
less
than
3
hours
sleep,
and
if
you
can
come
up

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with
a
less
than
perfect
quick
fix
until
next
weekend,
I
am
all
ears.

Thanks