

Re: Connect a Wireless Router to my SBS Network

Source:

<http://www.tech-archive.net/Archive/Windows/microsoft.public.windows.server.sbs/2008-11/msg00432.html>

- *From:* "SBS Golfer" <Mr.Bogus@xxxxxxxxxxxxxxxxxx>
 - *Date:* Tue, 4 Nov 2008 14:01:13 -0800
-

I'm going to try to lay it out as precise as possible.

My 1.5MB T1 line comes in and is connected to the ISP's DSL router. ----->>>> line goes into the "uplink" port of the 10/100 5-port Switch. Any port I can connect to using an external IP and my ISP's gateway, subnet mask and for DNS. So basically anything plugged into the 10/100 5-port Switch is outside my firewall. Now I plug a cable into one of the ports that goes to my external NIC on my SBS server using a static external IP. From the internal NIC on my SBS server the line goes to a gigabyte switch. My patch panels get plugged into here as well as my other Windows 2003 servers.

IP Config for SBS Server.

Microsoft Windows [Version 5.2.3790]
(C) Copyright 1985-2003 Microsoft Corp.

H:\>ipconfig /all

Windows IP Configuration

Host Name : abraham
Primary Dns Suffix : MACCABEE.local
Node Type : Unknown
IP Routing Enabled. : Yes
WINS Proxy Enabled. : Yes
DNS Suffix Search List. : MACCABEE.local

Ethernet adapter Local Area Connection:

Connection-specific DNS Suffix . :
Description : Broadcom 570x Gigabit Integrated
Controller
Physical Address. : 00-10-18-09-BA-FC
DHCP Enabled. : No
IP Address. : 192.168.16.2
Subnet Mask : 255.255.255.0

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Default Gateway :
DNS Servers : 192.168.16.2

Ethernet adapter WAN:

Connection-specific DNS Suffix . :
Description : Broadcom NetXtreme Gigabit Ethernet
Physical Address. : 00-06-5B-88-23-CC
DHCP Enabled. : No
IP Address. : 64.71.1.146
Subnet Mask : 255.255.255.248
Default Gateway : 64.71.1.145
DNS Servers : 192.168.16.2
NetBIOS over Tcpi. : Disabled

Merv Porter [SBS-MVP]" <mwport@xxxxxxxxxxxxxxxxxxxx> wrote in message
news:u1TpVYsPJHA.4848@xxxxxxxxxxxxxxxxxxxxxxxx

So, what are you using for the IP address of the external NIC in your SBS server (a public or a private IP address)? Posting the results of an ipconfig /all for the SBS server may be a good idea.

If the DSL mode-router is in bridge mode, you may want to put the Airlink in between the DSL modem and the SBS external NIC. Then you can use it as an extra layer of protection for the SBS LAN and as a wireless device for your guests.

Two Nics, a dynamic IP address, ISA and a router
(see the diagram for network physical set up)
<http://www.smallbizserver.net/Articles/tabid/266/articleType/ArticleView/articleId/74/Two-Nics-a-dynamic->

--
Merv Porter [SBS-MVP]
=====

"SBS Golfer" <Mr.Bogus@xxxxxxxxxxxxxxxx> wrote in message
news:OC8r%23vrPJHA.4820@xxxxxxxxxxxxxxxxxxxxxxxx

I believe it is more of a bridge. I use a 2 nic configuration on my SBS server and ISA as my firewall. For the LAN on my SBS server the second NIC is plugged into a gigabyte switch which then gets plugged into my patch panel.

"Merv Porter [SBS-MVP]" <mwport@xxxxxxxxxxxxxxxxxxxx> wrote in message
news:OsNb0irPJHA.4412@xxxxxxxxxxxxxxxxxxxxxxxx

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I assume your DSL modem-router is acting as a router (with a WAN and a LAN side) and not as a bridge (simply passing all traffic into the network). If it's acting as a router, the WAN IP address assigned by your ISP should be set on the WAN side of the DSL modem-router.

--
Merv Porter [SBS-MVP]
=====

"SBS Golfer" <Mr.Bogus@xxxxxxxxxxxxxxxx> wrote in message
news:uazjN2qPJHA.1164@xxxxxxxxxxxxxxxxxxxxxxxxxxxx

that is correct and sffirmitive. I'm puzzled though as to how the wireless resolves DNS requests? Shouldn't my WAN settings reflect my ISP's settings? In other words for the WAN IP, Gateway, mask and dns?

"Merv Porter [SBS-MVP]"
<mwport@xxxxxxxxxxxxxxxxxxxxxxxx> wrote in message
news:eflkGuqPJHA.1908@xxxxxxxxxxxxxxxxxxxxxxxxxxxx

Also, you should have the cable that comes from the DSL modem-router plugged into the WAN port of the Airlink router (not one of the 4 available LAN ports).

--
Merv Porter [SBS-MVP]
=====

"SBS Golfer"
<Mr.Bogus@xxxxxxxxxxxxxxxx>
wrote in message
news:%23AX%23mfqPJHA.4008@xxxxxxxxxxxxxxxxxxxxxxxxxxxx

Hey Merv,
OK so I
think i'm

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almost there
again.
Followed
your
suggestions.

This setup
is the
Airlink
wireless
attached to
the 5-port
switch?
YES

Assumption:
the DSL
router-modem
is
192.168.1.1

If so, try
this...

LAN IP
Address:
192.168.2.1
Static IP
Address:
192.168.1.2
Static
Subnet
Mask:
255.255.255.0
Static
Gateway:
192.168.1.1
Primary
DNS:
192.168.1.1
Secondary
DNS:
192.168.1.1

Changed
my laptop
IP to
192.168.2.10
and the
wireless to
192.168.2.1.and

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am able to
connect
directly to
the wireless.
Deleted
to old
network.
Created a
new one
and
changed
channels.
Select
WPA-PSK

So now I
am ble to
connect to
the AirLink
wireless
router either
directly
with a cable
or I'm also
able to get
to the
administration
page via
192.168.2.1
via wireless.
Checked
my laptop
IP settings
and
I am getting

Dynamic IP
192.168.2.109
Subnet
Mask
255.255.255.0
Gateway
192.168.2.1

So all looks
good. Only
problem is I
can't get to
the internet.
Any
ideas? I've

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got no
firewalls
running.
My
Internet/Connections/LAN
Settings is
set to
"Automatically
detect
settings".

"Merv
Porter
[SBS-MVP]"
<mwport@xxxxxxxxxxxxxxxxxxxx>
wrote in
message
news:eK8KD6gPJHA.2348@xxxxxxxxxxxxxxxxxxxxxxxx

Are
you
using
WPA-RADIUS
authentication
on
the
wireless
router?
Should
be
WPA-PSK.

Also,
what
is
the
model
number
of
the
Airlink
router?

--
Merv
Porter
[SBS-MVP]

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"SBS
Golfer"
<Mr.Bogus@xxxxxxxxxxxxxxxx>
wrote
in
message
news:eHzqNtgPJHA.4776@xxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxx

The
error
message
I
get
when
trying
to
connect
to
the
wireless
network
is
"Windows
was
unable
to
find
a
certificate
to
log
you
onto
the
network
"wireless
network
name".

"SBS
Golfer"
<Mr.Bogus@xxxxxxxxxxxxxxxx>
wrote
in
message
[news:%23z\\$EWqgPJHA.4312@xxxxxxxxxxxxxxxxxxxxxxxx](mailto:news:%23z$EWqgPJHA.4312@xxxxxxxxxxxxxxxxxxxxxxxx)

Looks
like

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the
NG
does
not
allow
me
to
attach
this
word
document.
Can
I
email
it
to
you
somewhere
else?
Thanks.

"Merv
Porter
[SBS-MVP]"
<mwport@xxxxxxxxxxxxxxxxxxxx>
wrote
in
message
news:O1KPnPgPJHA.4224@xxxxxxxxxxxx

This
setup
is
the
Airlink
wireless
attached
to
the
5-port
switch?

Assumption:
the
DSL
router-modem
is
192.168.1.1

If
so,

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try
this...

LAN
IP
Address:
192.168.2.1
Static
IP
Address:
192.168.1.2
Static
Subnet
Mask:
255.255.255.0
Static
Gateway:
192.168.1.1
Primary
DNS:
192.168.1.1
Secondary
DNS:
192.168.1.1

Internet
|
DSL
Modem-Router
|
|
|
|
Switch
|
|
Airlink
Router
(static,
WAN
side,
192.168.1.2)
|
||
|
|
Airlink
Router
(LAN
side,

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192.168.2.1)

|
|
|
|
|

Wireless
clients

|

SBS
External
NIC
(192.168.1.3)

||

SBS
Internal
NIC

||

Switch

|
|
|
|

SBS
LAN
Workstations

Merv
Porter
[SBS-MVP]

=====

"SBS
Golfer"
<Mr.Bogus@xxxxxxxxxxxxxxxx>
wrote
in
message
news:u9xt3EgPJHA.3884@xxxxxxxx

Thanks
Merv.
you're
the
greatest.
Here
is

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what
I
see
and
what
I
did.

LAN
IP
Address:
192.168.2.1
Static
IP
Address:
external
static
ip
Static
Subnet
Mask:
255.255.255.248
Static
Gateway:
external
gateway
IP
Primary
DNS:
(points
to
my
mail
server
providers
DNS
servers
(SBS
Servers
forwards
DNS
requests
to
same
IP's)
Secondary
DNS

OK
so

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now
I'm
almost
there
I
think.
I
did
the
above
and
can
now
see
my
wireless
network
when
I
do
a
search.
It
shows
it
is
a
"security-enabled
wireless
network
(WPA)".
however
when
I
go
to
connect
it
shows
all
bars
connected
but
appears
it
is
in
a
"Validating
Identity"
state.

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"Merv
Porter
[SBS-MVP]"
<mwport@xxxxxxxxxxxxxxxxxxxxx>
wrote
in
message
<news:OWxkVyfPJHA.4708G>

I
believe
the
Airlink
has
default
IP
of
192.168.1.1.
Connect
the
Airlink
wireless
unit
directly
to
a
"non-domain"
spare
laptop
or
workstation
(give
the
laptop
a
static
IP
of
192.168.1.10)
and
access
the
Airlink
web
interface
by
typing
in
192.168.1.1
in

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a
browser
window.
Now
change
the
IP
scheme
of
the
Airlink
to
192.168.2.x.
Then
change
the
laptop
IP
to
192.168.2.10.
You
should
be
able
to
get
backup
to
the
Airlink
web
interface
now.
Now
turn
on
DHCP
for
the
Airlink
and
set
the
WAN
IP
to
(static)
192.168.1.2.
You
may
have

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want
to
select
WPA
Personal
(TKIP
passphrase)
for
the
security
of
the
Airlink
wireless.
Then
connect
the
Airlink
to
the
5-port
switch,
set
your
laptop
to
get
an
IP
automatically
and
test
to
see
if
you
can
get
a
connection.

Merv
Porter
[SBS-MVP]

"SBS
Golfer"
<Mr.Bogus@xxxxxx>
wrote

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in
message
<news:%23LxRrjfPjH>

Hey
Merv
thanks
for
the
input.
My
problem
is
that
I
can't
get
to
the
browser
interface
of
the
wireless
router
and
therefore
cannot
input
any
information.

"Merv
Porter
[SBS-MVP]
<mwport@x
wrote
in
message
<news:%233U>

I
susp
it
the
"LA
side
of
your
DSL

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mod
that
is
192.
If
you
can't
set
the
Airl
up
as
a
WA
WA
(Win
Acco
Poin
you
may
need
to
use
it
as
a
route
with
it's
WA
IP
set
to
192.
(stat
with
GW
192.
then
chan
the
Airl
LAN
side
IP
rang
to
192.
with
the
LAN
side

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of
the
wire
route
set
to
192.
Afte
that,
turn
on
DHCP
for
the
wire
port
and
test.
At
that
point
a
wire
client
shou
get
an
IP
addr
of
192.

--
Mer
Port
[SBS
====

"SB
Golf
<Mr
wrot
in
mess
new

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