

Re: 16 bit subnet segmentation

Source:

<http://www.tech-archive.net/Archive/Windows/microsoft.public.windows.server.networking/2006-08/msg00777.html>

- *From:* "Neteng" <neteng.ccie@xxxxxxxxx>
 - *Date:* Tue, 29 Aug 2006 12:54:06 -0500
-

You'll need another NIC in the ISA box or you'll need to buy a router.

"RickyVene" <RickyVene@xxxxxxxxxxxxxxxxxxxxxxxxxxxx> wrote in message news:E22363D1-A5A0-4323-BA5D-EEF761534F38@xxxxxxxxxxxxxxxxxxxx

Can you tell me the basic connections? I have ISA 2004 edge firewall. So how I connect this on the internal?

Thanks,
Ricky

"Neteng" wrote:

As Phillip mentioned, a router.

"RickyVene" <RickyVene@xxxxxxxxxxxxxxxxxxxxxxxxxxxx> wrote in message news:8FDAC361-3975-436A-9BC3-0986845D1D22@xxxxxxxxxxxxxxxxxxxx

Are you saying that 16 bit segments can communicate with 24 bits? By

what

devices I need to use?

Please advise more.

Thanks,
Ricky

"Phillip Windell" wrote:

"RickyVene"
<RickyVene@xxxxxxxxxxxxxxxxxxxxxxxxxxxx>
wrote in message

Re: 16 bit subnet segmentation

news:07E26D90-19FA-4317-B453-8BD412AD1817@xxxxxxxxxxxxxxxxxxxx

I'll try that segmentation, but
what is the best way to do
that?

By

bridges
or by router segmentation.

Bridges are just another name for Switches.
Switches are Layer2.

Segmenting

is Layer3, Routers are Layer3,...so you have
to use a Router. There

are

a

lot of devices being sold now that are both a
Router and a Switch in

the

same box,...they are called Layer3 Switches.
These are a very good

option,

just be sure to keep separated in your mind
the router functionality

from

the switch functionality even though it is
happening in the same box.

How about the L2TP/IPSEC
for VPN on ISA 2004?
Right now, I'm only

using

the
PPTP protocol. Is it

Re: 16 bit subnet segmentation

advisable to go to ipsec?

VPN is already encapsulated with just using PPTP,...that's what PPTP

is.

I

have never messed with L2TP/IPSec,...it has never even interested me

or

made

me curious enough to try. Some people love it,...I couldn't care

less

about it. Your choice. I have also never wanted to spend the \$\$ to

buy

the

Certs to do it and the MS Cert Services is just too big of a hassel

to

mess

with for me.

--

Phillip Windell [MCP, MVP, CCNA]
www.wandtv.com

Thanks,
Ricky

"Phillip Windell" wrote:

Re: 16 bit subnet segmentation

You can
add two
24bit
segments
alongside of
the existing
ones and

migrate

to
the new
segments
over a
period of
time. If you
can wittle
down

the

16bit

segment to
less than
254 Hosts
and have
them
grouped
into IP#s

that

fall

into a 24bit
range,...then
all you have
to do is
change the
mask.

At

that

point even
the mask
can be

Re: 16 bit subnet segmentation

changed
over time
because
both a 16

and 24

bit

mask would
work for
those
simultaneously.

Once the
original 16
segment is
split into
24bit
segments
you

could

even

get
rid of the
new ones
you created
that aren't
needed
anymore. It

is up

to

you
how to deal
with that.

Once you
are out of
the woods
with all
this,...always
keep your

segment

Re: 16 bit subnet segmentation

at
254 hosts or
less (24bit
mask).
Ethernet
loses
efficiency
after

about

300
hosts per
segment. It
is even true
with gigbit
however it
just

isn't

as

noticeable to
"humans".

IPSec is not
meant for
running
between
every Host
on a LAN.
That

is

horrible.
IPSec has a
high
overhead. It
was
intended to
be used

in a

"point-to-point"
situation
like maybe
a WAN link
between

Re: 16 bit subnet segmentation

two

sites.

IPSec's
primary
purpose is
to prevent
"eavesdropping"
by Sniffers

by

encrypting
the packets.
On the
Local LAN
your
Switches
already

do

that

by
isolating the
session
between a
pair of
"talking"
hosts to its

own

"virtual
circuit".
You have to
specifically
configure
the Switch
with a

Monitoring

Port to use a
Sniffer. So
you don't
need IPSec
for that.

Re: 16 bit subnet segmentation

You can do
"firewall-like"
filtering
with IPSec
too, but you
can

do

that

without
IPSec
anyway, so
what's the
point? Plus
the LAN
has to

be

almost

"wide open"
just to
function
normally,
so there
isn't a lot of

filtering

even
possible
there.

--
Phillip
Windell
[MCP,
MVP,
CCNA]
www.wandtv.com

"RickyVene"
<RickyVene@xxxxxxxxxxxxxxxxxxxxxxxxxxxx>
wrote in

message

news:9596A79B-CDFE-4E5A-A9D1-B269091F5224@xxxxxxxxxx

Hi,

I
have
a
16
bit
subnet
which
is
hard
to
administer
especially

with

Network
speed.

I
disable
my
ghost
because
it's
a
network
killer.

Can
I
do
segmentation
with
16
bit
subnet
with
another
router?

I
need
also
to
implement

Re: 16 bit subnet segmentation

IPSEC.
Does
this
going
to
be
a
big

impact

on

it?

Can't
change
my
subnet,
it's
a
big
task
and
additional
fees

because

our

integrated
VOIP,
UNIX
and
others
are
already
in-placed.

Please
advise.

Thanks,
Ricky

Re: 16 bit subnet segmentation