

Re: NAS or USB Backup?

Source:

<http://www.tech-archive.net/Archive/Windows/microsoft.public.windows.server.sbs/2007-12/msg00999.html>

- *From:* "Bernie Hunt" <bhunt@xxxxxxxxxxxxxx>
 - *Date:* Thu, 6 Dec 2007 22:02:42 -0500
-

Has anyone tried putting a second NIC in the server and putting the NAS on that NIC? I'm wondering what would happen if a cross over cable was used rather than a switch in between. Hmmm, that would be an interesting comparison.

Any problems with putting a third NIC in an SBS box?

Bernie

"Dave Nickason [SBS MVP]" <gwdibble@xxxxxxxxxxxxxxxxxxxxxxxx> wrote in message news:et3NUBGOIHA.3556@xxxxxxxxxxxxxxxxxxxxxxxx

I'm not sure this matters but I ran into it when I built my Vista box and once since. Seagate SATA drives come with a jumper configured to limit the drive to SATA 1 speed. If you don't remove the jumper, you don't get SATA 2. I only got onto this because of the diagnostic software that came with the motherboard. And, it might be a Seagate-only thing.

If I wasn't so cheap, I'd buy boxed drives instead of OEM, and I'd learn stuff like this from the instructions, instead of having to remove the drive, then the jumper, then reinstall the drive.

"SuperGumby [SBS MVP]" <not@xxxxxxxxxxxx> wrote in message news:OVHaO4FOIHA.2208@xxxxxxxxxxxxxxxxxxxxxxxx

Golf has been called off, the others hit off without me
(GRRRRRRRSASSAFRASSIN GRRRRRRR)

I think I need to tell my client to replace some drives purchased only a few months ago. I'm pretty sure (without checking) that 'sustained throughput' of the existing set was ~54MBps whereas the current crop are _claiming_ closer to 80MBps or better.

as usual, I'm annoyed about 'obfuscation'. I'm looking up the specs on two similar drives from the same manufacturer

the 7200 says

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Transfer Rate (Buffer To Disk) 972 Mbits/s (Max)

while the 10K says

Transfer Rate (Buffer To Disk) 84 MB/s (Sustained)

Why can they not quote exactly the same parameter for both drives?

"Dave Nickason [SBS MVP]" <gwdibble@xxxxxxxxxxxxxxxxxxxxxxxx>
wrote in
message news:u%23Z6TcFOIHA.4584@xxxxxxxxxxxxxxxxxxxxxxxx

If you're actually putting pen to paper, I checked and the full backup is 65.5 GB, and it took 2 hours and 50 minutes. That one is SP3 – not sure if the compression is better than version 2 or not.

"SuperGumby [SBS MVP]" <not@xxxxxxxx> wrote in message news:%23qzdoUFOIHA.4948@xxxxxxxxxxxxxxxxxxxxxxxx

OK, you're getting better writes than I. I'm still a little surprised, I'd expect to need more drives than that to get the write rate.

must do sums, after golf, which I'm already late for.

"Dave Nickason [SBS MVP]"
<gwdibble@xxxxxxxxxxxxxxxxxxxxxxxx>
wrote in
message
news:ec83FPFOIHA.5472@xxxxxxxxxxxxxxxxxxxxxxxx

It's a Dell PE830 with a hardware controller and 4 250 GB SATA drives, RAID 5. Runs 64-bit Windows Storage Server R2. I'm currently backing up 2 of the 3 production servers to that. No user shares or production data on there, so the performance is adequate.

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

Re: NAS or USB Backup?

in message

news:uKwqRkEOIHA.3556@xxxxxxxxxxxxxxxxxxxxxxxxxxxx

Dave, what
device are
those 'over
Gb' backups
going to?

I'm writing
similar to a
DNES
running
RAID1
SATA and
realised I
was
hitting write
performance
for the
drives, takes
much
longer.

"Dave
Nickason
[SBS
MVP]"
<gwdibble@xxxxxxxxxxxxxxxxxxxxxxxxxxxx>
wrote in
message
news:uTyd7rDOIHA.5160@xxxxxxxxxxxxxxxxxxxxxxxxxxxx

Speed
is
pretty
hard
to
gauge,
but
I'm
backing
up
about
70
GB
over
gigabit
ethernet
in
2

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hours
50
minutes.
Backing
that
same
data
up
to
an
Exabyte
SCSI
tape
drive
takes
3.5
hours
for
the
backup
and
3.5
for
verify,
so
that's
7
hours.

Aside
from
the
time
saving
for
full
backups,
I
also
do
incremental
backups
every
three
hours
during
the
day
–
4
backups

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per
day.
Those
incrementals
take
only
a
few
minutes
–
less
than
5
–
and
don't
have
any
noticeable
impact
on
server
performance.
I'm
using
ShadowProtect
Desktop
to
back
up
one
user's
desktop
PC,
and
she's
not
even
aware
that
the
incremental
backups
are
being
done.
It's
all
VSS,
so
the

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impact
on
performance
is
quite
low.

What
you
do
to
restore
individual
files
is
to
"mount"
the
ShadowProtect
backup

–
any
full
or
incremental
backup
you
choose.

That
gives
it
a
drive
letter
in
Windows
Explorer
and
you
can
browse
the
backup
just
like
you
would
the
regular
file
system.

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Last
week,
I
had
someone
accidentally
overwrite
a
whole
directory
tree
worth
of
data
with
a
much
older
(and
therefore
useless)
copy.
It
took
me
just
a
few
minutes
to
mount
the
most
recent
ShadowProtect
backup
and
drag-and-drop
the
top-level
directory
out
to
overwrite
the
damaged
data.

This
is

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all
I
know
about
backup
in
the
next
version
of
SBS,
but
this
pretty
well
sums
it
up:
http://sbs.seandaniel.com/2007_05_01_archive.html

I'm
not
a
marketing
person
for
StorageCraft.
I
met
them
at
SMBNation,
and
they
convinced
me
to
try
ShadowProtect
Server
at
a
time
when
my
tape
backup
was
taking
noticeably
longer

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than
the
backup
window.
I
had
a
server
where
the
part-time
secretary
often
could
not
work
if
she
came
in
early
in
the
morning,
as
the
backup
had
not
completed.
I
had
a
test
server
available,
and
I
tried
everything
including
bare
metal
restore.
I
just
became
convinced
that
this
was

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a
superior
product.
I
now
use
it
on
two
member
servers,
although
not
yet
on
my
SBS.
The
fact
that
I'm
not
using
it
on
the
SBS
is
a
financial
thing
rather
than
my
actual
preference.

On
the
subject
of
2
tier,
here's
what
I
do
on
my
document
management

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server,
the
70
GB
one.
ShadowProtect
does
a
full
backup
at
5
PM
on
Sunday.
It
does
incrementals
7
days
per
week
at
11
AM,
2,
5,
and
8
PM.
All
of
these
go
over
gigabit
to
a
Windows
Storage
Server.
Then,
nightly
at
8:30
PM,
the
Storage
Server
backs
up

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to
tape.
Tape
is
for
offsite
only,
and
the
Storage
Server
is
my
first
source
if
files
have
to
be
restored.
There
is
no
production
data
on
the
Storage
Server
(it
gets
backups
from
two
servers
and
a
desktop),
so
I
don't
care
how
long
the
tape
backup
takes
or
when

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it
runs.

ShadowProtect
keeps
three
full
backups
and
the
associated
incrementals
(this
is
configurable).

After
the
4th
full
backup
completes,
it
automatically
deletes
the
first
full
and
associated
incrementals.

I
can
restore
from
any
of
these
if
necessary,
so
if
a
file
is
deleted
by
mistake
and
not
noticed
for

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a
couple
of
days,
I
just
get
it
from
an
older
backup.

"Dave
W"
<mtdave@xxxxxxxx>
wrote
in
message
news:1d73c5cf-96cd-4ade-b339-aa183312b8db@xxxxxxxx

On
Dec
5,
5:13
pm,
"Dave
Nickason
[SBS
MVP]"
<gwdib...@xxxxxxxxxxxxxxxxxxxxxxxx>
wrote:

ShadowProtect
can
be
configured
to
send
an
e-mail
as
soon
as
the
job
completes
or
fails.
For

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success,
it
tells
start
and
end
time,
source
and
destination.
For
failure,
it
sends
the
log.
It
won't
do
tape
–
it
only
backs
up
to
a
drive,
but
it
can
use
any
drive
you
can
map
from
the
server.
I
just
have
an
Outlook
rule
that
moves
the
success
messages

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to
their
own
folder,
and
I
just
tested
the
failure
message
by
accidentally
letting
a
drive
fill
up.

At
first
glance,
you
might
think
SP
is
a
little
pricey.
However,
in
addition
to
the
awesome
job
it
does
with
backup,
it
also
has
hardware
independent
restore.
That
means
that
it'll

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restore
to
just
about
any
hardware,
even
virtual,
with
the
built-in
drivers.
If
it
doesn't
have
the
drivers
for
your
hardware,
you
can
add
them
during
the
restore.
I've
never
had
to
do
a
bare
metal
restore
to
different
hardware,
but
I've
seen
it
demonstrated
and
it's
really
awesome
(not
to

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mention
simple).
I
have
tested
bare
metal
restore
to
the
same
hardware,
and
that
worked
flawlessly,
including
restore
of
SQL
databases
that
were
backed
up
on
line,
and
came
right
back
up
after
the
restore
as
if
nothing
had
happened.

If
you're
considering
SP,
please
consider
downloading
the
trial
from

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their
web
site.
It's
full-featured
for
I
think
30
days,
and
it'll
uninstall
cleanly
in
the
unlikely
event
you
decide
against
it.
There's
an
SBS-specific
version
with
attractive
pricing.
On
SBS,
you
need
to
enable
the
Exchange
VSS
writer
if
you
switch
away
from
the
built-in
backup
-
there's
a
KB

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for
that.
Post
back
if
you
can't
find
it.

"Dave
W"
<mt...@xxxxxxxx>
wrote
in
message

news:4e1f5c87-4f4c-45a0-94cf-f34e27cd1

On
Dec
4,
3:17
am,
"Brian
Cryer"
<bri...@xx>
wrote:

"Dave
W"
<mt...@xxxxxxxx>
wrote
in
message

news:ae27b3e6-34de-4b1a-
<snip>

OK,
so
in
theory,
a

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USB
2.0
drive
at
480Mbps
will
run
slower
than
a
gigabit
connection
running
at
1000Mbps
assuming
the
NIC
and
the
drive
is
the
same
right?

USB
typically
run
slower
than
this,
but
the
point
is
that
its
the
drive
(single,
mirrored,
raided
–
whatever
the
configuration)
that
is

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the
bottleneck
not
the
interface
(USB
or
network).

Right
now,
we
are
backing
up
175GB
of
data
(full
backup)
to
a
gigabit
connected
Western
Digital
hard
drive
—
and
it
takes
18+
hours.
Does
this
seem
reasonable?

Ouch,
yes
and
no.

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In
a
non-SBS
environment
I
backup
about
400GB
of
data
each
night
to
a
single
external
usb
disk.
This
disk
holds
the
backups
from
three
different
servers.
Unfortunately
I've
no
idea
how
long
it
takes,
but
one
server
(the
main
office
server)
backs
up
about
340GB
of
data,
the
backup
kicks

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of
at
1pm
and
is
always
finished
before
I
come
into
the
office
at
9am.

The
difference
in
timings
is
probably
due
to
"how"
I
do
the
backup.
The
server
has
three
drives:
C:
41GB
used
E:
67GB
used
F:
236GB
used
I
use
ntbackup
to
backup
the

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C
drive.
That
plus
a
script
to
backup
the
sql-server
databases
(also
on
C:
-
I
know
they
shouldn't
be
but
...)
probably
takes
the
bulk
of
the
time.
The
backup
of
the
E:
and
F:
drives
is
very
quick.
The
reason
is
that
I
don't
use
ntbackup
for
those
but

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a
straight
file
copy.
Actually
its
not
a
straight
copy,
we
use
an
in-house
file-copy
utility
similar
to
xcopy
but
which
also
removes
files
that
no
longer
exist.
The
net
effect
is
that
the
very
first
time
a
backup
is
run
it
does
take
an
age
but
each
time
the
backup

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is
run
to
overwrite
an
older-backup
it
only
needs
to
copy
those
files
which
are
new
or
which
have
changed
(most
files
thus
don't
need
copying).
The
end
result
is
that
it
is
very
fast
and
I
end
up
with
a
complete
image
of
the
drives
plus
an
nt
backup
of

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the
system
disk.

I
don't
have
figures
to
hand,
but
for
an
SBS
setup
I
use
the
same
approach
and
backing
up
about
100GB
of
data
(ish)
comfortably
finishes
over
night.

So
perhaps
consider
how
you
do
your
backup.
For
example
would
differential
backups
help?

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--

Brian

Cryer www.cryer.co.uk/brian

Yeah,
I've
thought
about
going
with
the
differential
but
I
REALLY
like
the
reports
I
get
from
the
SBS
backup
utility.
However,
those
reports
are
a
day
behind
but
I
still
get
an
immediate
warning
email
if
it
fails.

Does
anyone
know

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if
ShadowProtect
sends
an
email
upon
completion?

We
use
Backup
Exec
11d
to
a
400/800
internal
tape
drive
and
it
finishes
within
a
reasonable
time
frame.
The
NAS
drive
is
just
a
secondary
backup
that
makes
it
easier
in
case
the
whole
server
goes
down.
Being
able
to

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restore
quickbooks
from
it
is
a
nice
layer
of
flexibility.

I
appreciate
the
thoughts
around
this.–
Hide
quoted
text
–

–
Show
quoted
text
–

Great
info!
Thank
you.
If
you
were
to
guess,
how
much
faster
is
it
than
the
normal
SBS
backup?

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I'm
looking
at
18
hours
right
now.
If
the
server
goes
down
and
we
have
used
SP
to
backup
to
an
external
USB/
NAS
drive,
can
we
install
the
software
on
a
client
and
recover
individual
files
(such
as
a
quickbooks
data
file)
in
order
for
the
business
to
keep
running

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while
we
fix
the
server?
That's
the
end
game.

I
don't
think
there
is
a
beta
SBS
2008
out
there
yet
but
if
there
is,
is
the
backup
faster
than
NTBACKUP?

I'm
hoping
the
responses
are
real
world
and
not
just
marketing
folks
from
SP
just
pitching
the
product.

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Even
if
they
are

and
the
product
works
the
way
I've
read
about

then
I'm
a
believer
and
will
pitch
it
on
top
of
Symantec
Backup
Exec.

I'm
a
believer
in
a
2
tier
backup.
It's
probably
overkill
but
it
helps
me
protect
me
and
my
customers
in

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the
end.

Thanks
for
all
the
great
info
guys.
-dw