

## Re: SBS guest on Virtual Server 2005 host?

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- *From:* "kj" <kj@xxxxxxxxxxxx>
  - *Date:* Tue, 9 May 2006 11:26:25 -0700
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Good luck Doc. I think we're already there in a growing number of scenerios.

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/kj

"Doc King" <DocKing@xxxxxxxxxxxxxxxxxxxxxxxxxxxx> wrote in message  
<news:45523CE5-ED72-4232-857A-91673718527A@xxxxxxxxxxxxxxxxxxxx>

Cris, SuperG, and KJ,

Thanks for the feedback. After reading up on security, I do think I could secure the host sufficiently, however to get the most reliable system am going to swing it over to a new phat Dell. But when I'm done, I think I'm going to swing my home network into a Virtual Server sandbox to put through the paces.

I have been a big fan of VMWare, Virtual PC, and now plan on leveraging Virtual Server but as I'm sure you do- I need the most reliable solution deployable. I believe it is only a matter of time before it is stroked out for production use...

C

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Chris King, DC, MVP

"kj" wrote:

Yes, they do. If the Host Server has only one NIC then any client connected to the same network as the NAT can bypass the SBS server and any VM guest OS. All it has to do is be configured for the same network address as the NAT and use the NAT as the gateway. You MUST have two physical NICs in the

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host to have a VM ISA isolate non virtual workstations.

Using Enterprise Edition of Window Server 2003 and VM2005R2 the four bonus

(free) copies of Enterprise Server running as a VM host do provide substantial cost savings. Factoring in those as \$0 you've got such a case.

But all VM's are emulated and as such inheritedly are performance losers compared to running physical counterparts. Host OS to Guest OS network performance in Virtual Server 2005 R2 is, well, "less than ideal".

Virtual Server 2005 R2 VM guests are limited in emulated processors (1) and

memory (3.6gb), lack 64bit guest OS, and disk IO performance isn't what you'd expect from your typical mid market RAID controller.

VM's are ideal for lab testing, developers, server consolidation, and probably countless cases where performance isn't as important or the emulation overhead can be afforded.

I'd only consider using it in the SBS environment for testing or Disaster Recovery / Business Continuation.

Still, I'm a big fan of VS2005R2 and promote it often.

—  
/kj

"SuperGumby [SBS MVP]" <not@xxxxxxxxxxxx> wrote in message [news:u3DkjzucGHA.3952@xxxxxxxxxxxxxxxxxxxxxxxxxxxx](mailto:news:u3DkjzucGHA.3952@xxxxxxxxxxxxxxxxxxxxxxxxxxxx)

"kj" <kj@xxxxxxxxxxxx> wrote in message [news:%23zYIGfucGHA.1276@xxxxxxxxxxxxxxxxxxxxxxxxxxxx](mailto:news:%23zYIGfucGHA.1276@xxxxxxxxxxxxxxxxxxxxxxxxxxxx)

But when a physical client configures a "static" address of 192.168.33.x they bypass ISA and all but the NAT. Also I'm quite sure the VS Server must have a NIC with an IP.

No they don't re-read the scenario.

But with a VS server with 2 physical NICS, one the SBS virtual external network, and another physically isolated as the SBS virtual internal network, it works quite well. It also avoids a

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single NIC bandwidth  
bottleneck.

I've been using this as a virtual lab for some  
time now, and it works  
well,... for a lab.

on VS2005  
R2? The  
flexibility,  
test-ability,  
and disaster  
recovery  
possibilities  
are  
tantilizing  
to consider.

These are all good reasons, but performance  
just isn't one of them. A  
host system configured to provide like kind  
performance to a VM SBS  
environment just isn't very cost effective.  
Now if you were going to  
"host" three or four separate companies  
running their own virtualized  
SBS  
environment.... hmmm, there's a thought.

Would hardware sufficient to run SBS, a TS Application  
Mode server, and  
an  
LOB Application server in the virtual environment cost less  
than three  
sets of hardware? Maybe the TS wouldn't be a virtual,  
AFAIK there's no  
reason not to run the host OS as TS Apps Mode (as long as  
it's locked  
down  
enough that users can't stuff your virtuals :-).

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/kj

"SuperGumby [SBS MVP]"

<not@xxxxxxxxxxxx> wrote in message

[news:OyYyzMucGHA.380@xxxxxxxxxxxxxxxxxxxxxxxxxxxx](mailto:news:OyYyzMucGHA.380@xxxxxxxxxxxxxxxxxxxxxxxxxxxx)

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imagine this

You have a simple NAT router in front of a 2NIC W2003S running as VS host, the router is at 192.168.33.1/24. The external NIC of the W2003S box either has an IP of 192.168.44.4/24 or possibly doesn't have IP bound to it at all.

SBS running in the virtual environment also has two NICs, one bridged to each physical NIC. ISA running on the SBS with an external of 192.168.33.2/24 and an internal of 192.168.16.2/24. You can see that in this scenario the .44.y network is a 'dead end', not in use, or maybe doesn't exist at all.

BTW: I don't think you're crazy but though I'm sorta keen to do similar m'self I'm holding off. To run SBS in a virtual environment you not only need the fast IO (HDD & RAM) that SBS normally needs but also sufficient to compensate for running in virtual space and possibly running alongside other virtual machines. The best idea would be to minimise the tasks machines running in the virtual space are responsible

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for. ie. SBS Standard would seem feasible, adding ISA and SQL servres to the tasks performed in the virtual machine \_may\_ be asking a bit too much.

"Doc King"

<DocKing@xxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxx>

wrote in message

[news:DA107DCB-730B-4734-A0F3-6BE37B0B4FEF@xxxxxxxxxxxxxxxxxxxxxxxx](mailto:news:DA107DCB-730B-4734-A0F3-6BE37B0B4FEF@xxxxxxxxxxxxxxxxxxxxxxxx)

Am I out of my rabbit-ass mind thinking about deploying a production SBS box on VS2005 R2? The flexibility, test-ability, and disaster recovery possibilities are tantilizing to consider.

My primary issue is how to protect the 2003 R2 host. Is there any way to deploy a front end ISA server while retaining the SBS ISA functionality? Perhaps

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users could  
VPN into  
the bastion  
ISA box?

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Chris King,  
DC, MCP