

Re: Hardware Recommendations

Source:

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- *From:* Jason Meyer <jason.meyer@xxxxxxxxxxxxxxxxxxxxx>
 - *Date:* Thu, 05 Jan 2006 12:11:10 -0600
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Well you are right in SQL being CPU/RAM intensive, but also is very IO intensive, as is Exchange(both depending on how much and type of usage which you didn't explain). You may want to read up on deployment of those two to see what your needs are and what you can afford to use for your disk subsystems. IIS, load up on RAM and get some good CPUS, for disk, the faster the reading the better. Your Domain Controllers should have good cpus, and a good amount of RAM, disks...just make sure you mirror them.

Jason

Richard Perry wrote:

As I said in my original email, I already have about 27 servers, so new server purchases are not in the equation.

Second, I am not asking for specific input regarding my scenario or hardware. I am asking in general what the most important components are for say an IIS server. My understanding is that in IIS, RAM is the most important component. SQL is equally CPU and RAM intense. DNS and DHCP are RAM I believe.

Can someone please confirm this? I need to know the hardware impact for each server role.

"Justin Rich" wrote:

Get a Blade Server :)
you can adjust CPU's, memory, and disk space for each virtual server.. i have a buddy that works on a very large system with those and LOVES them... if not... a couple of entry level servers will do fine

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for most of that.. you didnt really tell us the usage... so its hard to say what to buy.. i can run SQL on my desktop machine and server up a handful or users no problem..

really we need to know where you are with usage and where you plan to be in the next 3 years..

"Richard Perry"

<RichardPerry@xxxxxxxxxxxxxxxxxxxxxxxxxxxx> wrote in message

news:28F814EC-EDF6-41C5-A756-33F1C29333B9@xxxxxxxxxxxxxxxxxxxxx

I am preparing a plan to perform a Novell Netware to Windows 2003 Active Directory migration. We currently have about 27 servers of various hardware specifications.

As I see it, the server roles in the future configuration will be as follows:

1. AD Domain Controllers and Services (DNS, DHCP)
2. File & Print
3. Exchange
4. SQL (2005?)
5. SMS
6. Applications
7. IIS
8. Apache (Blackboard Learning System)
9. Oracle database and application

I am looking for a general recommendation for each role about the most important aspect of the server configuration. There is a SAN involved with about 1TB of disk space, and will be dedicated to mostly F&P, SQL, and IIS. Most servers will have at least 2 hard drives.

My main concern here is based on each role, what component is most critical. SQL is very CPU and RAM intense, IIS is more RAM intense, etc.

Can anyone offer insight as to what component(s) are most critical to a server involved in each role?

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